Thay làm thấy làm

/////////////////////////////////////////////////////////////////////////////////////

1. Which of following feature is NOT responsibility of Database Management System (thay lam)

Answer: d. Manage user accounts of computer on which DBMS is running

2. The popular approach to information integration are \_\_\_\_\_\_\_\_\_\_\_\_\_ (MC) (Thay lam)

Answer: a. Creation of datawarehouses, where information from many database is copied periodically /// b. Implementation of a middleware (such as data mining) that support an integrated model of data of .

3. Which of following is never used as data model (Thay lam)

Answer: e. None of the others

4. Data model is a notation for describing data or information. The description consists of \_\_\_\_\_\_\_\_\_ (MC) (Thay lam)

Answer: a. Structure of the data /// b. Operations on the data /// c. Constraints on the data

5. Two relation R and S are type compatible if \_\_\_\_\_\_\_\_\_\_ (MC) (Thay lam)

Answer: a. They have the same number of attributes /// c. The domain of corresponding attributes must be compatible

6. A constraint between two attribute sets in a relation is called \_\_\_\_\_\_\_\_\_\_\_ (Thay lam)

Answer: c. Functional dependency

7. To convert a many - one relationship R from entity set E to entity set F, we must \_\_\_\_\_\_\_\_\_\_\_ (MC) (Thay lam)

Answer: a. Turn each entity set into a relation with the same set of attributes /// b. Add the key attributes of F to E /// d. Add all R's attributes to E

8. The number of entity sets that participate in relationship is called the \_\_\_\_\_\_\_\_\_\_\_\_ (Thay lam)

Answer: c. Degree

9. Suppose R and S are bags, R and S are type compatible, and t is the tuple that appears n times in R, and m times in S (n>=0, m>=0). How many times does t tuple appear in R hoi S? (Thay lam)

Answer: d. None of the others.

10. Suppose a relation R(A, B, C) and a primary key constraint on an A attribute. Which of followings may violate this constraint? (MC) (Thay lam)

Answer: a. Insert a new tuple to the relation R /// b. Update an exist typle on A component

11. Suppose a relation R(A, B, C) where all attributes are numeric and we'd like to create a modifying view. Which of follwoing is valid? (Thay lam)

Answer: a. CREATE VIEW RA AS SELECT A FROM R WHERE B = 5 AND C = 2

12. Choose a right statement(s) (MC) (Thay lam)

Answer: a. An index is a data structure used to speed access to typles of a relation /// d. An index makes update operations become more complex

13. The SQL standard library called \_\_\_\_\_\_\_\_\_\_\_ (Thay lam)

Answer: b. SQL/CLI

14. Using \_\_\_\_\_\_\_\_\_\_\_\_\_ to transfer information between the database and the host-language (Thay lam)

Answer: b. Shared variables.

15. With valid XML document we \_\_\_\_\_\_\_\_\_\_\_ (MC) (Thay lam)

Answer: a. Use predefine schema /// b. Involve Document Type Definition

/////////////////////////////////////////////////////////////////////////////////////////

Final Exam - Ngày thi: 02.10.2010

Question 1

Which statement is true?

a. XML documents must have a root tag

X b. All of the others

c. XML tags are case sensitive

d. XML elements must be properly nested

Answer :a. XML documents must have a root tagX b. All of the othersc. XML tags are case sensitived. XML elements must be properly nested

Question 2

In a typical OLAP application, there is a central relation or collection

of data, called \_\_\_\_\_\_

x a. the fact table

b. All of the others

c. the dimension table

d. the star table

Answer : x a. the fact table

Question 3

There is a way of describing XML data, how?

x a. XML uses a DTD to describe the data

b. All of the others

c. XML uses a description node to describe data

d. XML uses XSL to describe data

Answer : x a. XML uses a DTD to describe the data

Question 4

Given relation R(A,B) that has 2 tuples (1, 2) and (3, 4); relation S(B,

C, D) has 3 tuples (2, 5, 6), (4, 7, 8) and (9, 10, 11). The natural

join of R and S has \_\_\_\_\_\_

x a. 2 tuples (1, 2, 5, 6) and (3, 4, 7, 8)

b. 1 tuple (1, 2, 10, 11)

c. 2 tuples (1, 2, 2, 5) and (3, 4, 4, 7)

d. 2 tuples (1, 2, 3, 4) and (5, 6, 7, 8)

Answer : x a. 2 tuples (1, 2, 5, 6) and (3, 4, 7, 8)

Question 5

Suppose a schema of relation SupplierProduct is SupplierProduct(No,

SupplierID, ProductType) where No is a identifier, SupplierID is an

identifer of each supplier, and ProducType is a type of product which

this supplier provides. What will be returned when the following SQL

statement is executed?

SELECT SupplierID FROM SupplierProduct

GROUP BY SupplierID HAVING count (\*) IN

(SELECT count (distinct ProductType) FROM SupplierProduct);

a. A listing of supplierIDs, which provide all product types

b. A listing of supplierIDs, which provide some product types

x c. A listing of supplierIDs, which provide a specified number of

product types

d. No result, the query is invalid

Answer : x c. A listing of supplierIDs, which provide a specified number of

product types

Question 6

Which SQL statement is used to return only different values?

x a. SELECT DISTINCT

b. SELECT DIFFERENT

c. SELECT UNIQUE

d. SELECT DIFFERENT ALL

Answer : x a. SELECT DISTINCT

Question 7

We can turn the result of a query into a data cube by appending \_\_\_\_\_\_

to a group-by clause

a. WITH SUM

x b. WITH CUBE

c. All of the others

d. WITH AGGREGATE

Answer : x b. WITH CUBE

Question 8

Choose a well-formed XML document

a. <?xml version="1.0"?>

<to>Tove</to><from>Jani</from><heading>Reminder</heading><body>Don't

forget me this weekend!</body>

x b. <?xml version="1.0"?>

<envelope><to>Tove</to><from>Jani</from><heading>Reminder</heading><body>Don't

forget me this weekend</body></envelope>

c. <?xml version="1.0"?>

<to>Tove</to><from>Jani</from><heading>Reminder</heading><body>Don't

forget me this weekend!</body></end>

d. None of the others

Answer : b. <?xml version="1.0"?>

<envelope><to>Tove</to><from>Jani</from><heading>Reminder</heading><body>Don't

forget me this weekend</body></envelope>

Question 9

The multiplicity of a binary relationship could be \_\_\_\_\_

a. many–to-many

b. one-to-many

x c. All of the others

d. one-to-one

Answer : a. many–to-manyb. one-to-manyx c. All of the othersd. one-to-one

Question 10

Choose the wrong statement

x a. None of the others

b. The database tier executes queries that are requested from the

application tier

c. There can be many processes in the database tier and the processes

can be distributed over many machines or all be together on one

d. Since creating connections to database takes significant time, we

normally keep a large number of connections open and allow application

processes to share the connections

Answer : x a. None of the others

Question 11--------------------------------------------------------------------------------------------------

Choose the wrong statement:

x a. The subclasses of a class in UML can be disjoint partial

b. The subclasses of a class in UML can be disjoint overlapping

c. The subclasses of a class in UML can be disjoint complete

d. The subclasses of a class in UML can be overlapping partial

Answer : x a. The subclasses of a class in UML can be disjoint partial

Question 12 ---------------------------------

Select the right statement

x a. Referential integrity constraint is also called foreign key constraint

b. A foreign key constraint can be added or deleted using the 'Alter

Table' command

x c. All of the others

d. A foreign key in one table points to a PRIMARY KEY in another table

Answer : x a. Referential integrity constraint is also called foreign key constraintb. A foreign key constraint can be added or deleted using the 'AlterTable' commandx d. A foreign key in one table points to a PRIMARY KEY in another table

Question 13

Select the right statement

a. Instead-of trigger is used to update the database tables associated

with the view instead of updating the view directly.

b. When a trigger is defined on a view, we can use INSTEAD OF in place

of BEFORE or AFTER.

x c. All of the others

d. When an event awakens the instead-of trigger, the action of the

trigger is done instead of the event itself

Answer : a. Instead-of trigger is used to update the database tables associatedwith the view instead of updating the view directly.b. When a trigger is defined on a view, we can use INSTEAD OF in placeof BEFORE or AFTER.x c. All of the othersd. When an event awakens the instead-of trigger, the action of the

Question 14

The database language that is used to query and modify the database is

called \_\_\_\_\_\_\_

a. All of the others

b. Data Control Language

c. Data Definition Language

x d. Data Manipulation Language

Answer : x d. Data Manipulation Language

Question 15 ---------

Select the right statement

x a. Assertion is a boolean-valued SQL expression that must be true at

all times

b. Assertion is not part of the database schema

c. Once created, an assertion cannot be dropped unless you delete the

database

d. Assertion condition cannot be involved in many relations.

Answer : x a. Assertion is a boolean-valued SQL expression that must be true at

all times

Question 16

When a CHECK constraint associate to many tuples on one or more

relations, we must create

a. Attribute-based CHECK constraint

b. Tuple-based CHECK constraint

x c. Assertion

d. All of the others

e. Domain-based CHECK constraint

Answer : x c. Assertion

Question 17

Choose the wrong statement

a. The existence of an index on an attribute may speed up the execution

of certain queries

b. The most useful index on a relation is an index on its key.

c. None of the others

x d. An index makes update operations on a relation faster

Answer : x d. An index makes update operations on a relation faster

Question 18 ------------------------------------------

Consider the Datalog rule H(x,y) <- S(x, y) AND x >= y AND y < 3.

Relation S(x, y) has 3 tuples (2, 3), (5, 3), and (3, 3). What is about H?

a. H has 2 tuples (3, 3) and (5, 3)

b. H has a tuple (3, 3)

x c. None of the others

d. H has a tuple (5, 3)

Answer : x c. None of the others

Question 19 --------------------------------------------------------------

Which of the following is not true about stored procedure?

a. Stored procedures can enhance security control (users can be granted

permission to execute a stored procedure independently of underlying

table permissions)

b. Stored procedures can replace stored functions to improve performance

c. Stored procedures can reduce/avoid network traffic

d. None of the others

Answer : d. None of the others

Question 20

Choose the right statement

a. Transaction is a collection of one or more operations on the

database that must be executed atomically. That is, either all

operations are performed or none of them is done.

b. In SQL, each statement is a transaction by itself.

x c. All of the others

d. SQL allows us to group several statements into a single transaction.

Answer : a. Transaction is a collection of one or more operations on thedatabase that must be executed atomically. That is, either alloperations are performed or none of them is done.b. In SQL, each statement is a transaction by itself.x c. All of the othersd. SQL allows us to group several statements into a single transaction.

Question 21--------------------------------------------------------------------------------

Suppose a relation PROJECT(projectID, projectName, location, department,

ProjectLo1(projectID, projectName, department) is an updatable view

associated to PROJECT where location=1. Evaluate the following statement:

INSERT INTO ProjectLo1 (projectID, projectName, department) VALUES

(200,'ERP1.0',1);

a. The query is executed, there is new tuple (200,'ERP1.0',1) on

ProjectLo1, and new tuple (200,'ERP1.0',1,1) on Project

b. The query is executed, there is no new tuple on ProjectLo1, and new

tuple (200,'ERP1.0',null,1) on Project

c. The query is executed, there is new tuple (200,'ERP1.0',1) on

ProjectLo1, and new tuple (200,'ERP1.0',null,1) on Project

x d. The query is executed but nothing happened on Project neither on

ProjectLo1

Answer : x d. The query is executed but nothing happened on Project neither on ProjectLo1

Question 22

Suppose the theta join R3 :=R1?R2, where C is a condition that refers to

attributes of R1 and R2. Which of the followings is correct?

a. Each tuple t1 of R1 connect with one tuple t2 of R2

x b. Each tuple t1 of R1 connect with some those tuple t2 of R2 that satisfy C

c. Each tuple t1 of R1 connect with all those tuple t2 of R2 that satifsy C

d. None of the others

Answer : x b. Each tuple t1 of R1 connect with some those tuple t2 of R2 that satisfy C

Question 23

Which of the following statement is NOT true:

a. Problems such as redundancy that occur when we try to cram too much

into a single relation are called anomalies

b. If X is a key, then X is a super key

x c. A relation can have only one key

d. A set of one or more attributes {A1, A2, ..., An} is a key for a relation R if these attributes functionally determine all other attributes of the relation R and these attributes must be minimal

Answer : x c. A relation can have only one key

Question 24

Which of the following is not a valid loop construct in PSM?

a. REPEAT UNTIL END REPEAT;

b. LOOP END LOOP;

c. WHILE DO END WHILE;

x d. None of the others

Answer : x d. None of the others

Question 25

Select the right statement

x a. All of the others

b. A view is a virtual table

c. Not all views are updatable

d. With updatable views, the modification is translated into an equivalent modification on a base table

Answer : b. A view is a virtual tablec. Not all views are updatable d. With updatable views, the modification is translated into an

Question 26--------------------------------------------------------------------- tran saction

Which of the following isolation levels forbids the reading of dirty data?

a. SET TRANSACTION ISOLATION LEVEL READ UNCOMMITED;

b. SET TRANSACTION ISOLATION LEVEL SERIALIZABLE;

c. SET TRANSACTION ISOLATION LEVEL READ COMMITTED;

x d. SET TRANSACTION ISOLATION LEVEL REPEATABLE READ;

Answer : x d. SET TRANSACTION ISOLATION LEVEL REPEATABLE READ;

Question 27 --------------------------------------

Given the relation Movies(title, year, length, genre) and the following

trigger definition:

CREATE TRIGGER FixYearTrigger

BEFORE INSERT ON Movies

REFERENCING

NEW ROW AS NewRow

NEW TABLE AS NewStuff

FOR EACH ROW

WHEN NewRow.year IS NULL

UPDATE NewStuff SET year = 1915;

Select the right statement:

a. The trigger fixes up the NULL value of the year before the tuples

are inserted into the Movies table. Specifically, it replaces the year

value of all inserted tuples by 1915.

b. The trigger update the year after the tuples are inserted into the

Movies table. Specifically, it replaces the year value of all inserted

tuples by 1915.

c. All of the others

d. The trigger fixes up the NULL value of the year before the tuples are inserted into the Movies table. Specifically, it replaces the year that has NULL by 1915.

Answer : d. The trigger fixes up the NULL value of the year before the tuples are inserted into the Movies table. Specifically, it replaces the year that has NULL by 1915.

Question 28

Which of the following Datalog rules is safe?

Choose at least one answer.

a. R(x,y,z) ? U(x,y) AND T(y,z)

b. R(x,y,z) ? S(x) AND U(x,y) AND T(y,z)

c. R(x,y,z) ? S(x) AND T(x,y) AND y < z

d. R(x,y,z) ? U(x,y) AND T(x,y) AND y < z

Answer : a. R(x,y,z) ? U(x,y) AND T(y,z)b. R(x,y,z) ? S(x) AND U(x,y) AND T(y,z)

Question 29

Which of the following is the correct definition of a procedure:

a. CREATE PROCEDURE () RETURNS ;

b. All of the others

----c. CREATE PROCEDURE () ;

d. CREATE PROCEDURE () RETURNS RETURN ;

Answer : a. CREATE PROCEDURE () RETURNS ;b. All of the others----c. CREATE PROCEDURE () ;d. CREATE PROCEDURE () RETURNS RETURN ;

Question 30

Which statement is true?

a. All XML documents must have a DTD

b. All of the others

x c. All XML elements must be properly closed

d. All XML elements must be lower case

Answer : x c. All XML elements must be properly closed

Question 31

Select the wrong statement

a. None of the others

b. An index can be created in a table to find data more quickly and

efficiently

x c. A table can have only one index

d. The key for index can be any attribute or set of attributes, and

need not be the key of the relation

Answer : x c. A table can have only one index

Question 32

Consider a relation with schema R(A, B, C, D) and the set of FDs: BC ->

D, D -> A, A -> B. Compute {AC}+

a. {A, C, D}

b. {A, B, C}

c. {A, C}

x d. {A, B, C, D}

Answer : x d. {A, B, C, D}

Question 33

Consider a relation with schema R(A, B, C) and the set of FDs: A -> B, A

-> C, B -> A, B -> C, C -> A, C -> B, AB -> C, BC -> A, AC -> B, A ->

BC, B -> AC, C -> AB. Find a minimal basis for relation R.

x a. A -> B, B -> C, C -> A

b. All of the others

c. AC -> B, BC -> A

d. AC -> B, BC -> A, A -> BC

Answer : x a. A -> B, B -> C, C -> A

Question 34

Choose the wrong statement

a. A user defined type (UDT) can be the type of a table

b. None of the others

c. A user defined type can be the type of an attribute belonging to

some table

x d. A user defined type (UDT) cannot be the type of a table

Answer : x d. A user defined type (UDT) cannot be the type of a table

Question 35

A type of an attribute that can be used as pointer to a user-defined

type (UDT) is called \_\_\_\_\_\_

a. pointer types

b. None of the others

x c. reference types

d. linking types

Answer : x c. reference types

Question 36

Which of the following is not a valid privilege in SQL?

x a. PROCEDURE

b. TRIGGER

c. EXECUTE

d. REFERENCES

Answer : x a. PROCEDURE

Question 37

In the three-tier architecture, the function of the application tier is

to \_\_\_\_\_\_\_

x a. Execute the business logic of the organization operating the database

b. All of the others

c. Perform queries and modifications at the request of the application

servers

d. Manage the interactions with the user

Answer :x a. Execute the business logic of the organization operating the database

Question 38

Select the right statement

x a. Updating views are allowed if query involves a single base relation and contains a candidate key of base relation

b. Updating views are allowed if query involves aggregation or grouping operations

c. Updating views are allowed if query involves multiple base relations.

d. All of the others

Answer : x a. Updating views are allowed if query involves a single base relation and contains a candidate key of base relation

Question 39

Given table MovieStar defined as follows: CREATE TABLE MovieStar( name

CHAR(30) PRIMARY KEY, address VARCHAR(256), gender CHAR(1) CHECK (gender

IN ('M','F')), birthdate DATE NOT NULL ) Which of the following query is

not valid?

x a. INSERT INTO MovieStar VALUES ('Tom Cruz', '123 Little Rd, LA city','M', NULL);

b. INSERT INTO MovieStar(name, gender, birthday) VALUES ('Tom Cruz',

'M', '1973-09-12 00:00:00');

c. INSERT INTO MovieStar VALUES ('Tom Cruz', NULL, 'M', '1973-09-12

00:00:00');

d. INSERT INTO MovieStar(name, address, gender, birthday) VALUES ('Tom

Cruz', NULL, 'M', '1973-09-12 00:00:00');

Answer : x a. INSERT INTO MovieStar VALUES ('Tom Cruz', '123 Little Rd, LA city','M', NULL);Question 40

Suppose the relation tblEmployee(EmployeeID, EmployeeName, Salary,

department). Consider the following code in SQL Server 2005:

DECLARE @EmployeeID INT, @EmployeeName NVARCHAR(50), @SALARY DECIMAL(10,0);

DECLARE myCursor CURSOR FOR Select EmployeeID, EmployeeName, Salary FROM

tblEMPLOYEE WHERE department=1;

OPEN myCursor;

FETCH NEXT FROM myCursor INTO @EmployeeID,@EmployeeName,@Salary;

IF @@FETCH\_STATUS <> 0

PRINT '<<NONE>>';

WHILE @@FETCH\_STATUS = 0

BEGIN

PRINT @EmployeeID+' '+@EmployeeName+' <mailto:'+@EmployeeName+'>

'+@Salary <mailto:'+@Salary>;

FETCH NEXT FROM myCursor INTO @EmployeeID,@EmployeeName,@Salary;

END

CLOSE myCursor;

DEALLOCATE myCursor;

What happens if we execute this code?

x a. It's executed successfully, and prints out three values for each existing employee in tblEmployee table

b. It's executed successfully, but nothing is displayed in output

c. It's executed successfully, and the output is the simple text '<>'

d. It can not be executed successfully.

Answer : x a. It's executed successfully, and prints out three values for each existing employee in tblEmployee table

Question 41 ---------------------------

Which of the following constructs can be used in PSM?

Choose at least one answer.

x a. LOOP ... END LOOP;

b. WHILE .... DO ...

c. DO ... WHILE ....

d. FOR ... DO ...

Answer : x a. LOOP ... END LOOP;

Question 42

Given relation U(A, B, C) that has 2 tuples (a, 1, x) and (a, 1, y), and

relation V(A, B) that has 1 tuple (a, 1). Choose the right answer below:

a. The left outer join of U and V is the relation R(A, B, C) that has 2 tuples (a, 1, x) and (a, 1, y).

b. The left outer join of U and V is the relation R(A, B, C) that has 3

tuples (a, 1, x) , (a, 1, y) and (b, 2, NULL).

c. None of the others

d. The left outer join of U and V is the relation R(A, B, C) that has

only 1 tuple (NULL, a, 1).

Answer : a. The left outer join of U and V is the relation R(A, B, C) that has 2 tuples (a, 1, x) and (a, 1, y).

Question 43

List all the movies that have length less than 100 and were produced by

a studio name other than ‘Fox’. Select the right answer.

a. Selection NOT(length=100) AND NOT(studioName=‘Fox’)(Movies)

x b. None of the others

c. Selection length<100 AND studioName <>‘Fox’(Movies)

d. Selection NOT(length=100 OR studioName=‘Fox’)(Movies)

Answer : x b. None of the others

Question 44

Which of the following is considered anomaly?

x a. All of the others

b. information may be changed in one tuple, but may not be changed in other tuple(s)

c. if a set of values becomes empty, we may lose other information as a side effect

d. information may be repeated unnecessarily in several tuples

Answer : b. information may be changed in one tuple, but may not be changed inother tuple(s)c. if a set of values becomes empty, we may lose other information as aside effectd. information may be repeated unnecessarily in several tuples

Question 45

Suppose the relation Employee(SSN, Fullname, Salary, SupervisorSSN).

Consider the following condition:

NOT EXISTS (SELECT \* FROM EMPLOYEE WHERE SupervisorSSN NOT IN (SELECT

SSN FROM EMPLOYEE)).

Which of the following activities may violate this condition?

a. Insert new employee

b. Delete existing emplyee

x c. All of the others

d. Update existing employee

Answer : a. Insert new employeeb. Delete existing emplyeex c. Update existing employee

Question 46---------------------------

With SQL, how do you select all the records from a table named "Persons"

where the "LastName" is alphabetically between (and including) "Nguyen"

and "Tran"?

a. SELECT \* FROM Persons WHERE LastName>'Nguyen' AND LastName<'Tran'

b. SELECT LastName>'Nguyen' AND LastName<'Tran' FROM Persons

c. SELECT \* FROM Persons WHERE LastName BETWEEN 'Nguyen' AND 'Tran'

d. None of the others.

Answer :c. SELECT \* FROM Persons WHERE LastName BETWEEN 'Nguyen' AND 'Tran'

Question 47

Choose the right answer:

x a. Duplicate-elimination operator is used to convert a bag to a set

b. Duplicate-elimination operator is used to add duplicate tuple to a

relation

c. None of the others

d. Duplicate-elimination operator is used to convert a set to a bag

Answer :

x a. Duplicate-elimination operator is used to convert a bag to a set

Question 48

Suppose relation R1 has n1 attributes and t1 tuples, relation R2 has n2

attributes and t2 tuples, then the Cartesian Product R3 = R1 x R2 has

\_\_\_\_\_\_\_\_

a. n1\*n2 attributes, and t1\*t2 tuples

b. n1\*n2 attributes, and t1+t2 tuples

x c. n1+n2 attributes, and t1\*t2 tuples

d. n1+n2 attributes, and t1+t2 tuples

Answer : x c. n1+n2 attributes, and t1\*t2 tuples

Question 49

Suppose relation R(A,B,C,D) with FD's A?B, B?D, CD?A. This relation is

decomposed into 3 relations S1={A,D}, S2={A,C}, S3={B,C,D}. Is this decomposition lossless join?

a. Yes

x b. No

Answer :x b. No

Question 50

Which is not a correct name for an XML element?

a. &ltNote>

b. &lt1dollar>

xc. All of the others

d. &lthav1>

Answer : a. &ltNote>b. &lt1dollar> d. &lthav1>

Question 51

Choose the right statement

a. Basic relational algebra cannot be expressed in Datalog rule(s)

b. All of the others

c. Relational algebra can express recursion

d. Any single safe Datalog rule can be expressed in relational algebra

Answer :a. Basic relational algebra cannot be expressed in Datalog rule(s) c. Relational algebra can express recursiond. Any single safe Datalog rule can be expressed in relational algebra

Question 52----------------------------

Which of the following is considered disadvantage of triggers?

a. Triggers run every time the database fields are

inserted/updated/deleted, so it adds overhead to system.

b. Triggers execute invisible to client application. It is called by the database server automatically, not by the client application or user.

c. All of the others

d. Unlike stored procedure, parameters cannot be used with triggers.

Answer : b. Triggers execute invisible to client application. It is called by the database server automatically, not by the client application or user.

Question 53

The degree of a relationship is \_\_\_\_\_\_

a. The number of binary relationships

b. The number of attributes in a relation

-c. The number of entities involved with the relationship

d. The number of tuples in a relation

Answer :-c. The number of entities involved with the relationship

Question 54

When performing union, intersection, or difference operations on

relations R and S, they must be type compatible. That is, \_\_\_\_\_\_

a. R and S must have the same number of attributes

b. R and S must have the same number of attributes and the domain of corresponding attributes of R and S must be compatible

c. The domain of corresponding attributes of R and S must be compatible

d. The names of attributes of R and S must be the same

Answer : b. R and S must have the same number of attributes and the domain of corresponding attributes of R and S must be compatible

Question 55

Which of the following expression is equivalent to the intersection of R

and S:

a. R - S

b. R – (S – R)

c. R – (R – S)

d. S – (R – S)

Answer : R – (R – S)

Question 56

Choose the wrong statement

a. We should start the high level database design (for example, ER diagram in conceptual design) after getting user requirements.

b. All of the others

c. The high level database design (for example, ER diagram in

conceptual design) depends on DBMS selection

d. The high level database design (for example, ER diagram in

conceptual design) is independent of DBMS selection.

Answer :a. We should start the high level database design (for example, ER diagram in conceptual design) after getting user requirements.

Question 57

Which of the followings is incorrect?

a. In ODL, an attribute is represented in the class declaration

b. In ODL, attributes are only integers and strings

c. None of the others

d. In ODL, a simplest kind of property is attribute

Answer : b. In ODL, attributes are only integers and strings

Question 58

With SQL, how can you insert "Trinh" as the "LastName" in the "Persons"

table?

a. None of the others

b. INSERT INTO Persons ('Trinh') INTO LastName

c. INSERT ('Trinh') INTO Persons (LastName)

d. INSERT INTO Persons (LastName) VALUES ('Trinh')

Answer :d. INSERT INTO Persons (LastName) VALUES ('Trinh')

Question 59

Consider a relation with schema R(A, B, C, D, E) and the set of FDs: BC

-> D, D -> A, A -> B. Find one key of R.

a. BC

b. AB

c. None of the others

d. BD

Answer : c. None of the others

Question 60

We should avoid redundancy when designing database because \_\_\_\_\_

a. We may encounter deletion anomalies

b. All of the others

c. We may encounter update anomalies

d. It wastes spaces

Answer: a. We may encounter deletion anomalies c. We may encounter update anomaliesd. It wastes spaces

/////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////

1. Choose the false statement about the decomposition into BCNF?

Answer:The relations of the decomposition are all in BCNF

2.\_\_ is the framework under which data may exist and SQL operations on data may be executed

Answer:SQL environment

3. Which of the followings is the extended operator of relational algebra?

Answer:All of the others

4. Which statement is true regarding subqueries?

Answer:All of the others

5. In ODL, if we have a many-one relationship from class C to class D, then \_\_

Answer:... just D,... SET

6. Which of the follwing statements is invalid?

Answer:If A->B, B-->>C,A->C holds, too

7. Which of the following is applied in PSM

Answer:All of the others

8.Which of the followings may be a part of well-formed XML document?

Answer:All of the others

9. Suppose the realtion SALE(item, customer, quantity, price) with more than billion tuples from the large database. We try to provide a rapid random and sequential access to this table by \_\_\_

Answer:Creating some indices

10. Suppose a realtion PROJECT(projectID,projectName,location,department, ProjectLo1(projectID, projectName,department) is an updatable view associated to PROJECT where location=1. Evaluate the following statement: INSERT INTO ProjectLo1(projectID,projectName,department) VALUES(200.'ERP1.0',1);

Answer:...is no new tuple on ProjectLo1, and newtuple(200.'ERP 1.0',null, 1) on Project

11. Which of the followings is characteristic of UML?

Answer:Classes are sets of objects, with states and behaviors

12. SUppose R(A,B) and S(B,C) are bags. R has two tuples (1,2),(2,3). S has three tuples (1,3),(3,2),(2,1).Evaluate the following realtional expression: gA,SUM(C)->SUMC(R\*S), where \* denotes the natural join.

Answer:two tuple (1,1) and (2,2)

13. Which of the following statement is belong to DML?

Answer: GRANT

14.Suppose the relation Project(number,name,department,location).Evaluate the following statement: SELECT distinct p1.location FROM Project p1, Project p2 WHERE p1.location = p2.location AND p1.number<p2.number

Answer:..there are more than one projects

15. Suppose a realtion PROJECT(projectID,projectName,location,department, ProjectLo1(projectID, projectName,department) is an updatable view associated to PROJECT where location=1. Evaluate the following statement: DELETE FROM ProjectLo1 WHERE department=1;

Answer:..whose value on component department is 1, and value on component location is 1,too

16.Suppose the following statement: CREAT TABLE EMPLOYEE( SSN INT PRIMARY KEY, FULLNAME NVARCHAR(100), GENDER CHAR(1) DEFAULT ' UNDEFINED', AGE INT DEFAULT '18', CHECK ((GENDER = 'F' AND AGE<55) OR (GENDER='M' AND AGE <60))); Evaluate this statement in SQLSever 2005

Answer:..successfully, newtable name as EMPLOYEE is created

17.The responsibility of Database management system is \_\_

Answer:all of the others

18. Which of following statements is allowed in SQLServer 2005

Answer:all of the others

19. which of the followings cannot be used to construct the complex type in XML Schema

Answer:By using tag

20. Suppose the relation tblEmployee(EmployeeID, EmployeeName,Salary,department).Consider the following code in SQL Sever 2005:DECLARE @EmployeeID INT,@EmployeeName NVARCHAR(50),@SALARY DECIMAL(10,0); DECLARE myCursor CURSOR FOR Select EmployeeID, EmployeeName, Salary FROM tblEMPLOYEE WHERE department =1; OPEN myCursor; FETCH NEXT FROM MyCursor INTO @EmployeeID, @EmployeeName, @Salary;IF @@FETCH\_STATUS<>0 PRINT '<<NONE>>'; WHILE @@FETCH\_STATUS=0 BEGIN PRINT @EmployeeID + ''@EmployeeName +' '+@Salary; FETCH NEXT FROM myCursor INTo @EmployeeID,@EmployeeName,@Salary;END CLOSE myCursor; DEALLOCATE myCursor; What happens if we execute this code?

Answer:..and prints out three values for each existing employee in tblEmployee table

21. Suppose R(A,B) and S(B,C) are bags. R has two tuples (1,1),(1,2).S has three tuples (1,2),(2,1),(2,2). Evaluate the following Datalog rule: H(x) <- R(x,y) AND S(y,z) AND NOT R(x,z)

Answer:relation H has no tuples

22. Suppose the relation WorksOn(project, employee, hoursperweek).Consider the following constraint: Nobody can't work more than 40 hours a week(for all his/her projects).How can we implement this constraint in SQLServer 2005

Answer:..a trigger to refuse all modifications violating this constraint

23. Which of the following Datalog rules is unsafe

Answer:Q(x,y,z)<-U(x,y) AND T(x,y) AND NOT T(x,z)

24. Suppose two relations Project (number, name, location, department) and Department(number, name).Evaluate the following SQL statement: SELECT D.number, D.name, P.number, P.name FROM Department D LEFT OUTER JOIN Project P ON (D.number = P.department);

Answer:..department irrecpective of whether they control projects or not

25. Which of the following expression represents the below constraint on relation R(A:int,B:int,C:int): For every tuple in R, the value on A must be greater than the value on B or value on C must be less than the sum of value on A and value on B

Answer:sA->B OR C < A + B( R ) =

26. which of the following statement is used to delete all data from table EMPLOYEES except its schema

Answer:DELETE FROM EMPLOYEES

27. which of the followings has the same meaning as attribute-based constraint?

Ventity-based constraint

28. When we define an attribute A as PRIMARY KEY of relation R, then \_\_\_\_\_\_\_\_\_\_\_\_

Answer:all of the others

29. An attributes in\_\_\_\_\_\_\_\_\_\_\_\_ are only integers and character strings

Answer:ODL

30. How can we convert the subclass structures to relations

Answer:contruct a single relation for whole hierarchy of entity sets

31. Which of the following statements is true about the User Defined Type?

Answer:all of the others

32. Which of the followings is true about SQL session?

Answer:The session lasts as long as the connection that created it

33. Which of the followings is false about weak entity set?

Answer:The key for a weak entity set includes the keys for all supporting entity sets

34. What do we say about views?

Answer:all of the others

35. Given two relation tblEmployee(EmployeeID,EmployeeName,Salary,Department) and tblDepartment(DepartmentID, DepartmentName,Manager,AssignData).Suppose that Scott is granted as followed: GRANT SELECT, UPDATE ON tblEmployee TO Scott; GRANT SELECT(DepartmentID, Manager) ON tblDepartment to Scott;Which of the following statements is available for Scott?

Answer:all of the others

36. Which of the followings is right about attributes on XML documents?

Answer:DTD is a grammar-like set of rules to ensure that a XML document must be well-formed

37. Suppose the relation Employee(SSN, Fullname,Salary, SupervisorSSN).Consider the following condition: NOT EXISTS(SELECT\*FROM EMPLOYEE WHERE SupervisorSSN NOT IN (SELECT SSN FROM EMPLOYEE)).Which of the following activities may violate this condition?

Answer:all of the others

38. Which of the followings evolves to information integration?

Answer:None of the others

39. Which of the followings was the first ever used for data model

Answer:file System

40. Suppose the relation SALE(item, cusomter, quantity, price) with more than billion tuples from the large database. We try to provide a rapid random and sequential access to this table by\_\_\_\_\_\_\_\_\_

Answer:..make the viewProjectNo1 unusable

41. Suppose the relation WorksOn(project, employee, hoursperweek).Consider the following query:Listing all those projects with at least 10 workers.The condition 'at least 10 worker' must be\_\_\_\_\_\_\_\_

Answer:appeared in HAVING clause as condition con classified groups

42. An A attribute is called the key of relation R if\_\_\_\_\_\_\_\_\_\_\_\_

Answer:all of the others

43. Where cannot we use PSM procedures?

Answer:None of the others

44.View is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Answer:None of the others

45. \_\_\_\_\_\_\_manage the interations with the user

Answer:The webserver-tier processes

46. Suppose the relation R(A,B,C,D) and set of FDs A->B,B->C,C->D. Suppose the projection R1=PA,C,D®

Answer:A->C, A->D

47. Suppose two relations tblEmployee(EmployeeID, EmployeeName, Salary, memberOf(\*tblDepartment)) and tblDepartment(DepartmentID,DepartmentName,managerIs(tblEmployee)).What doeas the meberOf(tblDepartment) mean?

Answer:..is a single tuple of relation schema named tblDepartment

48. Suppose two predefined types AuthorType and BookType in UDT. We have defined two relations named Authors and Books based on these types.To present the statement 'Which authors have written which books we define the table Writes.Which of the followings is valid definition for Writes table?

Answer:W author REF(Type),book REF(BookType));

49. Which of the followings is false about E/R model?

Answer:.. very simple types, e.g integers or character strings

50. Which of the following statements is true?

Answer:A recursion in Datalog can be expressed in relational algebra

51. Suppose the relation Employee(SSN:char(12),Supervisor:char(12),Num\_Of\_Supervised:int),where Supervisor indicates that who supervises the current employee, and Num\_Of\_Supervised indicates that how many employees are supervised by this employee.Which of the followings is not allowed in SQL Server 2005

Answer:None of the others

52. Suppose the relation Employee(SSN, Fullname,Salary, SupervisorSSN).Consider the following query: SELECT\*FROM Employee WHERE NOT EXISTS(SELECT\*FROM Employee WHERE SSN=SupervisorSSN)

Answer:.. successfully, and return all those employees who don't supervise any other employee

53. Given two relation tblEmployee(EmployeeID,EmployeeName,Salary,Department).Suppose we connected to SQL with Scott authorization ID.Which of privileges must Scott have to execute the following statement: DELETE FROM tblEmployee WHERE EmployeeID IN(SELECT EmployeeID FROM tblEmployee WHERE department IS NULL)

Answer:DELETE on tblEmployee

54. which of the followings doesn't take the key's condition 'no two tuples agree on all attributes of key'?

Answer:foreign key

55. Suppose we have two elements Department and Project. The Department element has a key named depKey on the attribute DepartmentNo. The Project has an attribute named DepartmentNo, and we'd like to define it as foreign key.Which of followings can be use?

Answer:<xs:keyref name="depRef" refers="depKey"><xs:selector:xpath="Project"/><xs:field xpath="DepartmentN 0"/></xs:keyref>

56. suppose relation R(A,B,C,D,E) and set of FD's S={A->B,B->D,AD->C}.Find on the key of R

Answer:{A}

57. Suppose the relation Employee(SSN,Name,Salary,Department).Which of the followings returns all those employees with salary exceeds salary of all employees from department 1

Answer:all of the others

58. Which of the followings is not true about XML documents

Answer:XML data is presented in one or more documents

59. Suppose relation R(A,B,C,D,E) and set of FD's A->D,AD->C,C->BE.Compute {A}+

Answer:{A,D,C,B,E}

60. Database users can connect to database management system as\_\_\_\_\_\_\_\_\_\_\_\_

Answer:all of the others

61. Any Create command maybe reserved by using a \_\_\_ command

Answer:Commit

62. Suppose a relation R(A,B,C) where all attributes are numeric and we'd like to create a modifying view. Which of followings is valid?

Answer:All of the others

63. The keyword WITH CUBE is used in \_\_\_clause

Answer:GROUP BY

64.Suppose two relations R(A,B) and S(C,D),where A,B,C,D,E are interger attributes.which of following queries is invalid?

Answer:INSERT INTO R(A,B)SELECT \* FROM S

65.Which of the following is the responsibility od DTD?

Answer.All of the others.

66.Which of the following is TRUE about semi-structured data?

Answer.It is self-decribing

67.Which of following keywords can be used in well-formed XML document?

Answer.All of the others

68.WHich of following is charateristic of object relational data model?

Answer.All of the others.

69.WHich of following statement is not DML?

Answer.CREATE

70.Choose the false statement about the decomposition into 3NF?

Answer.the decomposition has the dependency preservation proverty.

71.WHich of following is a disadvantages of using index?

Answer.An index makes update operations becomes more complex.

72.WHich of following can appear in PSM procedure definition?

Answer.all of the others.

73.WHich of following statement can be used in PSM procedure definition?

Answer.all of the others.

74.WHich of following relational operations are considerably more efficient if we use the bag model?

Answer.Difference.

75.Choose a right answer

Answer.An authorization ID may be granted privileges fromm others or may give its.

76.Which of the following statements is TRUE?

Answer.Key is the super key.

77.Choose the incorrect statement.

Answer.Classes are sets of objects,with state and behaviors.

78.WHich of following is not the extended operator of relational algebrab?

Answer.Natural join operators.

79.Which of the following is TRUE about E/R model?

Answer.all of the others.

80.Which of the following is TRUE?

Answer.all of the others.

81.The ER Diagram uses three principle element types:

Answer.Entity sets,Attributes and Constraints.

82.Consider a relation with schema R(A,B,C,D) and FD's BC.Which of the following is the key of R?

Answer.BC.

83.In a tree structure,a/an\_\_\_\_\_\_has no arc out.

Answer.leaf node

84.\_\_\_\_\_\_\_connect web-clients to the database system,usually over the Internet or possibly a local connection.

Answer.Web server proccesses.

85.Data Definition language(DDL) is used to...

Answer.all of the others.

86.Which of the following has the same meaning as domain-based constraint?

Answer.Attributes-based constraint

87.The result of(UNKNOWN OR TRUE) is.

Answer.TRUE

88.Suppose an updatable view ParamountMovies is associated with Movies relations.

Answer.An update on ParamoutMovies is translated into Movies.

89.In PSM we can break out the loop by using\_\_\_\_\_\_\_ statement.

Answer.LEAVE

90.In SQL language,the command/statement that let you change the schema of a relation is:

Answer.Alter

91.Each web server process can invoke one or more\_\_\_\_\_\_\_ to handle the request.

Answer.Database server proccesses.

92.Select the right statement.

Answer.All of the others.

93.The keyword WITH ROLLUP is used in \_\_\_\_\_\_\_\_ clause

Answer.WHERE

94.Suppose a relation R has two not null numeric attributes A,B.Which of the following queries do we use to count the number of tuples in R?

Answer. All of the others

95.A atrribute A is called the key of relation R if\_\_\_\_\_\_\_

Answer.All of the others

96.In referntial integrity constraint,the referenced attribute(s) must be \_\_\_\_\_or\_\_\_\_\_

Answer.Primary key,Unique key.

97.When we define an attribute A as PRIMARY KEY of relations R,then\_\_\_\_\_\_\_

Answer.There are no two tuples that have the same as values of the A component.

98.Which of the following statement is valid?

Answer.All of the others.

99.Which of the following is the principle element type of ER diagram?

Answer.All of the others

100.Which of the following logical expressions is FALSE?

Answer.None of the others.

101.WHich of the following is definition of tables in SQL?

Answer.Tables are the kind of relation that exists int the database....

102.Which of the follwing is TRUE about weak entity set?

Answer.All of the others

103.Which of the following is not applied for the union of two relations which are bags?

Answer.We eliminate duplicated tuples

104.Which of the following is NOT a standard aggresion operator?

Answer.GROUP

105.Which of the following action doesn't violate this constraint?

Answer.Delete an exist employee.

The DBMS acts as an interface between what two components of an enterprise-class database system?

Answer Database application and the database

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Which of the following products was an early implementation of the relational model developed by E.F. Codd of IBM?

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The following are components of a database except

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Which of the following projects illustrates a database being designed as a redesign of an existing database?

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An on-line commercial site such as Amazon.com is an example of a(n)

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Which of the following products was the first to implement true relational algebra in a PC DBMS?

Answer R:base

SQL stands for

Answer Structured Query Language

Because it contains a description of its own structure, a database is considered to be

Answer self-describing

The following are functions of a DBMS except

Answer creating and processing forms

Helping people keep track of things is the purpose of a(n)

Answer database

Which of the following products implemented the CODASYL DBTG model?

Answer IDMS

An Enterprise Resource Planning application is an example of a(n)

Answer multiuser database application

A DBMS that combines a DBMS and an application generator is

Answer Microsoft's Access

Which of the following is not considered to be a basic element of an enterprise-class database system?

Answer COBOL programs

The DBMS that is most difficult to use is

Answer Oracle Corporation's Oracle

1. The responsibility of Database management system is

Answer: Support the storage/Give users the ability/Allow users to create

2. Choose a incorrect statement

Answer: None of the others(DB is a collection/created/a collection)

3. Which of following is never used as data model?

Answer: None of the others(Relational/Graph-based/Hierarchical/Tree-based)

4. Data model is a notation for describing data or information. The description consists of

Answer: Structure of data/Operations on the data/Constrains on the data

5. When we define an attribute A as UNIQUE KEY of the relation R, then

Answer: The A attribute is considered/Tuple can have null/There are not 2 tuples

6. Two relation R and S are type compatible if

Answer: They have the same number of attributes/The domain of corresponding

7. A two-dimesion table of data is called a

Answer: Relation

8. Which of the following are properties of relations?

Answer: All of the others(Each attribute/There are no mutivalued/No two rows

9. A constraint between two attribute sets in a relation is called

Answer: Functional dependency

10. Given a relation R(A,B,C,D) with functional dependencies A->B, C->D. Find one key of R

Answer: {A,C}

11. Given a relation R(A,B,C,D) with functional dependencies A->C, C->D, AD->B. Which functional dependency violates BCNF condition?

Answer: C->D

12. Given a relation R(A,B,C,D). Which of following is trivial?

Answer: AB -> A/AB-->A

13. Given a relation R(A,B,C,D) with functional dependencies A->B, C->D, D->B. Compute {C}+

Answer: {B,C,D}

14. The number of entity sets that participate in a relationship is called the

Answer: Degree

15. A relationship between the instances of a single entity set is called

Answer: Binary

16. Every department has one special employee as manager, and every employee may or may not be a manger of department on which he is a member. This relationship is

Answer: One to many

Data modeling may be the most important part of the systems development process because:

answer: Data characteristics are important in the design of programs and other systems components

A business rule:

answer: All of the above: Define, Assert, Controls

Business rules should be determined primarily by interviewing executives in the business.

answer: False

The common types of entities are:

answer: All:Strong, Weak, Associative

A property or characteristic of an entity type that is of interest to the organization is called a(n):

answer: attribute

A relationship is an association between attributes.

answer: False

A good data name should be:

answer: readable, unique, and repeatable

A multivalued attribute is an attribute that is common to many entities.

answer: False

A person's name, birthday, and social security number are all examples of:

answer: Attributes

A(n) \_\_\_\_\_ is the relationship between a weak entity type and its owner.

answer: identifying relationship

The \_\_\_\_\_ specifies the number of instances of one entity that can (or must) be associated with each instance of another entity.

answer: cardinality constraint

The degree of a relationship is the number of entity types that participate in a relationship.

answer: True

A ternary relationship is a simultaneous relationship between more than three entity types.

answer: False

Which is NOT a basic construct of an E-R model?

answer: Identifiers

An attribute that can be calculated from related attribute values is called a \_\_\_\_\_attribute

answer: derived

An attribute that uniquely identifies an entity, and consists of a composite attribute is called a(n):

answer: Composite identifier

An entity that associates the instances of one or more entity types and contains attributes specific to the relationships is called a(n):

answer: Associative entity

The number of entity types that participate in a relationship is called the:

answer: Degree

A relationship between the instances of a single entity type is called a \_\_\_\_\_relationship.

answer: Unary

An entity type name should always be a singular noun.

answer: True

A simultaneous relationship among the instances of three entity types is called a \_\_\_\_\_relationship.

answer: ternary

A \_\_\_\_\_ specifies the number of instances of one entity that can be associated with each instance of another entity.

answer: Cardinality constraint

A relationship where the minimum and maximum cardinality are both one is a(n) \_\_\_\_\_ relationship.

answer: Mandatory one

A mutually exclusive relationship is one in which:

answer: An entity instance can participate in only one of several alternative relationships

A student can attend five classes, each with a different professor. Each professor has 30 students. The relationship of students to professors is a \_\_\_\_\_ relationship.

answer: Many-to-many

The total quiz points for a student for an entire semester is a(n) \_\_\_\_\_ attribute.

answer: Derived

A join operation:

answer: causes two disparate tables to be combined...

Data Definition language (DDL) is used to:

answer: declare database schemas

A database is an organized collection of \_\_\_ related data.

answer: logically

The relation data model consists of which component?

answer: All: Data integrity, Data manipulation, Data structure

A rule that CANNOT be violate by database users is called a:

answer: constraint

In the SQL language, the\_\_\_ statement is usedto creat database definitions

answer: create table

Which of the following types of data can be stored in adatabase

answer: All: Voice, letters, numbers

Given a relation R(A,B,C,D) with dependencies A-->C, C->D. Which of the followings doesn't hold in R?

answer: A->C

What is the property that good decomposition must have?

answer: All: Elimination of anomalies, Recoverability of information, Preservation of dependencies

Given a relation R(A,B,C,D) with functional dependencies A->BC, C->D,D->A. Find one key of R

answer: {A}

Functional dependency is a constraint on \_\_\_\_\_\_\_\_\_\_

answer: Two sets of attributes of a relation

One attribute is called prime if \_\_\_\_\_\_\_\_\_\_

answer: It is a member of key

Choose the false statement about the decomposition into BCNF?

answer: The decomposition has the dependency preservation property

Choose a right statement

answer: If X is a key, then X is a super key

The principle strategy to convert subclasses to relations is \_\_\_\_\_\_\_\_\_

answer: all: Follow, Treat, Use

Choose a wrong answer

answer: UML offers multi-way relationships

Choose a right answer

answer: all: the value, Entity set, Relationship

When we say one class has many students, and a student is a member of one class, we mean that the multiplicity of this relationship from class entity set to student entity set is \_\_\_\_\_\_\_\_\_

answer: One - many

An attribute (or attributes) that uniquely identifies each row in a relation is called a/an:

answer: primary key

Choose a wrong statement

answer: E/R model represents both the structure of data and the operations on data

The number of entity types that participate in a relationship is called the :

answer: degree

An attribute of the relation R to which the ? is applied is called

answer: Grouping attribute

To convert a bag to a set, we use \_\_\_\_\_\_\_\_\_ operator

answer: d

Suppose R(A,B,C) is bag, S=sA>B(R). Choose a right answer

answer: S has the same schema as R, and S has less or equal tuples than R has

Suppose a relation R(A,B,C) as a bag, and a relation S=pA,B(d(R)) as a bag, too. R has 4 tuples (1,2,2), (1,3,2), (1,2,2), and (1,2,3). S has\_\_\_\_\_\_\_\_\_\_ tuples

answer: 3

Suppose a relation R(A,B) has 4 tuples (1,2), (2,3), (1,1), (2,4). A result of ?A,SUM(B)?SUM(R) is \_\_\_\_\_\_\_\_\_\_

answer: A relation has 2 tuples (1,3), (2,7)

Suppose a relation R(A,B) and S(B,C) as a bags. R has 2 tuples (1,2),(1,4) and S has 3 tuples (2,3), (4,5) and (4,5). The theta-join R ? \_R.B<S.B S has \_\_\_\_\_\_\_\_\_\_ tuples

answer: 2

Choose one answer.

answer: This operation is valid and the result has three tuples

The result of ((10<NULL) OR TRUE) AND (UNKNOWN OR FALSE) is

answer: UNKNOWN

Which of following is not part of Data Manipulation Language (DML)?

answer: CREATE statement

Suppose a relation R has two attributes A and B. Choose a valid query

answer: SELECT A, B, COUNT(\*) FROM R GROUP BY A, B

Choose the right statement

answer: all: Sub-queries can appear, return a single, return relations

Which of following condition is TRUE

answer: (UNKNOWN OR TRUE) OR (UNKNOWN AND FALSE)

Suppose a relation R has two numeric non-null attributes A, B. Which of the following queries do we use to count the number of tuples in R ?

answer: COUNT(\*) COUNT(A) COUNT(B)

Suppose a relation S has three numeric attributes A, B, and C. Choose a valid query

answer: SELECT A, SUM(\*) FROM S GROUP BY A HAVING COUNT(B)<20

NULL value is \_\_\_\_\_\_\_\_\_\_

answer: all: unknown, inapplicable, withheld

Choose a wrong answer

answer:Every relation has only one index

Choose a right answer

answer: A virtual view is defined by an expression like a query

Given the relation Movies(title, year, length, genre, studioName).Select the right query to create a view with the titles and studio names of all movies that were produced in 1980

answer:CREATE VIEW OldMovies AS SELECT title, studioName FROM Movies where year=1980

When a user makes contact, a \_\_\_\_\_\_\_\_\_\_ response to the request, and the user becomes a client of this \_\_\_\_\_\_\_\_\_\_ process.

answer: webserver, webserver

Function parameters may be of mode \_\_\_\_\_\_\_\_\_\_

answer: IN

Which of the followings is right about well-formed XML documents?

answer: All: involve, have, begin

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answer: Structured Query Language

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The following are functions of a DBMS except \_\_\_\_\_\_\_\_ .

answer: creating and processing forms

Helping people keep track of things is the purpose of a(n) \_\_\_\_\_\_\_\_ .

answer: database

Which of the following products implemented the CODASYL DBTG model?

answer: IDMS

An Enterprise Resource Planning application is an example of a(n) \_\_\_\_\_\_\_\_ .

answer: multiuser database application

A DBMS that combines a DBMS and an application generator is \_\_\_\_\_\_\_\_ .

answer: Microsoft's Access

You have run an SQL statement that asked the DBMS to display data in a table named USER\_TABLES. The results include columns of data labeled "TableName," "NumberOfColumns" and "PrimaryKey." You are looking at \_\_\_\_\_\_\_\_ .

answer: metadata

Which of the following is not considered to be a basic element of an enterprise-class database system?

answer: COBOL programs

The DBMS that is most difficult to use is \_\_\_\_\_\_\_\_ .

answer: Oracle Corporation's Oracle

The relational database model was created by E.F. Codd.

answer: True

A database is called "self-describing" because it contains a description of itself

answer: True

In a database, data is stored in spreadsheets which have rows and columns.

answer: False

A database has data and relationships.

answer: True

Databases create information.

answer: True

One of the reasons why OODBMSs have not been widely used for business information systems is that OOP is obsolete.

answer: False

A database administrator designs, constructs, and manages the databases.

answer: True

In an enterprise-class database system, business users interact directly with database applications, which directly access the database data.

answer: False

Applications are programs that interact directly with the database.

answer: False

The purpose of a database is to help people stop using spreadsheets.

answer: False

Microsoft Access is an enterprise-class database product.

answer: False

Structured Query Language (SQL) is an internationally recognized standard language that is understood by all commercial database management system products.

answer: True

The XML family of standards is very important in database processing today.

answer: True

A database has a built-in capability to create, process and administer itself.

answer: False

Enterprise Resource Planning (ERP) is an example of a single user database.

answer: False

Prior to 1970, all data was stored in separate files, which were mostly stored on reels of magnetic tape.

answer: True

A database design may be based on existing data.

answer: True

The DBMS ranked as being the "easiest to use" in the text is Oracle Corporation's Oracle.

answer: False

Database applications are seldom intended for use by a single user.

answer: False

The DBMS ranked as being the "hardest to use" in the text is Microsoft's SQL Server.

answer: False

In an Enterprise-class database system, business users interact directly with database applications that interact with the DBMS, which directly accesses the database data.

answer: True

Suppose R and S are bags, and t is the tuple that appears n-times and m-times in R and S (n=0, m=0).How many time dose t tupe appear in

answer:In {R^S}, t appears (n + m) times, In {R U S}, t appears MIN(n, m) times, In {R \ S}, t appears MAX(0, n - m) times

Arithmetic operators on NULL values will return

answer: a NULL value

Comparisons with NULL values will return

answer: UNKNOWN

Choose the false statement about the decomposition in to BCNF

answer: the relations of the...

\_\_\_is the framework under which data ay exist and SQL operations on data may beexecuted

answer: SQL environment

which of the following is the extended operator of relational algebra?

answer: All: Outerijoins, Grouping, Duplicate

Which statement is true regarding subqueries?

answer: all: The NOT, = ANY, the IN

In ODL, if we have a may- one relationship from class C to class D,then\_\_

answer: Inclass C, the type of the relationship is just D, while the type of the relationship in D is SET

which of the following statement is invalid?

answer:if A->B, B->->C hold in relation R, then A=>Vholds,too

which of the following is applied in PSM

answer:All: Cursors, queries, Subqueries

Which of the followings may be a part of well-formed XML document?

answer: all

sUPPOSE THE REALTION sale(ITEM, CUSTOMER, quantity, price) with more than billion tupeles from the large database. We try to providea rapid random and sequential access to this table by\_\_\_

answer: Creating some indicies

Which of the followings is characteristic of UML?

answer: Classes are sets of objects, with satate and behaviors

Suppose R(A,B) and S(B,C) are bags. R has two tuples (1,2), (2,30. S hasthree tuples (1,3), (3,2), (2,1). Evalue the following relational expression: gA,SUM(C)-> SUMC(R\*S), where \* denotes the natural join

answer: the result relation has two tuples (1,1) and (2,2)

Which of the followings is belong to DML?

answer: GRANT

The responsibility of Database management system is\_\_

answer: All: Allowusers, Support, Give

Which of the following Datalog rules is unsafe?

answer: Q(x,y,z)<- U(x,y) AND T(x,y) AND NOT T(x,z)

Which of the following statement is used to delete all data from table EMPLOYEES except it's schema?

answer: DELETE FROM EMPLOYEES

Which of the followings has the same meaning as attribute-based constraint?

answer: Entity-based constraint

When we define an attribute A as PRIMARY KEY of relation R, then\_\_

answer: All: tuple must be not, there are no two, no more primary key...

An attributesin\_\_\_are only integers and character strings

answer: ODL

how can we convert the subclass structure to relations?

answer: Contruct a single relation for whole hierarchy ofenitity sets

Choose a right answer

answer: A virtual view is defined by an expression like a query

The most useful index on a relation is an index on its key. This is because:

answer: Queries in which a value for the key is ...

Which of the following is not a benefit of using views?

answer: None of the others

Suppose an updatable view FoxMovies is associated with Movies relation. Choose a right answer

answer: All: An update on Movies is translated into FoxMovies va ngc lai,Drop FoxMovies does not affect Movies

A clustering index is \_\_\_\_\_\_

answer:An index that is defined on non-key field(s) and there can be more than one record corresponding to a value of the indexing field

Choose the invalid statement

answer: Views allow each user to have his or her own view of the database, which creates data redundancy

Suppose a relation R(A,B,C) where all attributes are numeric. Choose a valid query to create an updatable view

answer: None of the others

Which of the fllowing statement is true about User Defined Type?

answer: All: An UDT, the 0-0, many relations

Which of the following is true about SQL session?

answer: the sessions lasts as long as the conection that created it

Which of the followings is false about weak entity set?

answer: THe key for a weak

What do we say a bout views?

answer: All: droping : a base table, a view, views dont exist

Which of the followings is right about attributes on XML documents?

answer: DTD is a grammar

Which of the followings evolves to information integration?

answer: None of other

Which of the followings was the first ever used for data model?

answer: File system

An A attribute is called the key of relation R if\_\_\_

answer: All: it functionally, Its closure, there are no

Where cannot we use PSM procedures

answer: None of the others

View is\_\_\_\_

answer: None of the others

\_\_\_manage the interations with the user

answer: the webserver-tier processes

Which of the followings is false about E/R model?

answer: attributes are very simply types...

Which of the following statement is true?

answer: A recursion in Datalog can be expressed in relational algebra

Which of the followings doesn't take the key's condition 'no two tuples aree on all attributes f key'?

answer: Foregn key

Suppose relation R(A,B,C,D), and set of FD's S={A->B, B->D,AD->C}. find one key of R

answer: {A}

Which of the followings is not true about XML documents?

answer: XML data is presented in one or more document

Suppose relation R(A,B,C,D,E) and se of FDs A->D, AD->C, C->BE. Compute {A}+

answer: {A,B,C,D,E}

database users can connect to database management system as

answer: all: Database designer, Database adinistrator, Database end-user

1. Choose the false statement about the decomposition into BCNF?

Answer: The decomposition has the dependency preservation property

2.\_\_ is the framework under which data may exist and SQL operations on data may be executed

Answer: SQL environment

3. Which of the followings is the extended operator of relational algebra?

Answer: All of the others

4. Which statement is true regarding subqueries?

Answer: All of the others

5. In ODL, if we have a many-one relationship from class C to class D, then \_\_

Answer: ... just D,... SET

6. Which of the follwing statements is invalid?

Answer: If A->B, B-->>C,A->C holds, too

7. Which of the following is applied in PSM

Answer: All of the others

8.Which of the followings may be a part of well-formed XML document?

Answer: All of the others

9. Suppose the realtion SALE(item, customer, quantity, price) with more than billion tuples from the large database. We try to provide a rapid random and sequential access to this table by \_\_\_

Answer: Creating some indices

10. Suppose a realtion PROJECT(projectID,projectName,location,department, ProjectLo1(projectID, projectName,department) is an updatable view associated to PROJECT where location=1. Evaluate the following statement: INSERT INTO ProjectLo1(projectID,projectName,department) VALUES(200.'ERP1.0',1);

Answer: ...is no new tuple on ProjectLo1, and newtuple(200.'ERP 1.0',null, 1) on Project

11. Which of the followings is characteristic of UML?

Answer: Classes are sets of objects, with states and behaviors

12. Suppose R(A,B) and S(B,C) are bags. R has two tuples (1,2),(2,3). S has three tuples (1,3),(3,2),(2,1).Evaluate the following realtional expression: gA,SUM(C)->SUMC(R\*S), where \* denotes the natural join.

Answer: two tuple (1,1) and (2,2)

13. Which of the following statement is belong to DML?

Answer: GRANT

14.Suppose the relation Project(number,name,department,location).Evaluate the following statement: SELECT distinct p1.location FROM Project p1, Project p2 WHERE p1.location = p2.location AND p1.number<p2.number

Answer: ..there are more than one projects

15. Suppose a realtion PROJECT(projectID,projectName,location,department, ProjectLo1(projectID, projectName,department) is an updatable view associated to PROJECT where location=1. Evaluate the following statement: DELETE FROM ProjectLo1 WHERE department=1;

Answer: ..whose value on component department is 1, and value on component location is 1,too

16.Suppose the following statement: CREAT TABLE EMPLOYEE( SSN INT PRIMARY KEY, FULLNAME NVARCHAR(100), GENDER CHAR(1) DEFAULT ' UNDEFINED', AGE INT DEFAULT '18', CHECK ((GENDER = 'F' AND AGE<55) OR (GENDER='M' AND AGE <60))); Evaluate this statement in SQLSever 2005

Answer: ..successfully, newtable name as EMPLOYEE is created

17.The responsibility of Database management system is \_\_

Answer: all of the others

18. Which of following statements is allowed in SQLServer 2005

Answer: all of the others

19. which of the followings cannot be used to construct the complex type in XML Schema

Answer: By using tag

20. Suppose the relation tblEmployee(EmployeeID, EmployeeName,Salary,department).Consider the following code in SQL Sever 2005:DECLARE @EmployeeID INT,@EmployeeName NVARCHAR(50),@SALARY DECIMAL(10,0); DECLARE myCursor CURSOR FOR Select EmployeeID, EmployeeName, Salary FROM tblEMPLOYEE WHERE department =1; OPEN myCursor; FETCH NEXT FROM MyCursor INTO @EmployeeID, @EmployeeName, @Salary;IF @@FETCH\_STATUS<>0 PRINT '<<NONE>>'; WHILE @@FETCH\_STATUS=0 BEGIN PRINT @EmployeeID + ''@EmployeeName +' '+@Salary; FETCH NEXT FROM myCursor INTo @EmployeeID,@EmployeeName,@Salary;END CLOSE myCursor; DEALLOCATE myCursor; What happens if we execute this code?

Answer: ..and prints out three values for each existing employee in tblEmployee table

21. Suppose R(A,B) and S(B,C) are bags. R has two tuples (1,1),(1,2).S has three tuples (1,2),(2,1),(2,2). Evaluate the following Datalog rule: H(x) <- R(x,y) AND S(y,z) AND NOT R(x,z)

Answer: relation H has no tuples

22. Suppose the relation WorksOn(project, employee, hoursperweek).Consider the following constraint: Nobody can't work more than 40 hours a week(for all his/her projects).How can we implement this constraint in SQLServer 2005

Answer: ..a trigger to refuse all modifications violating this constraint

23. Which of the following Datalog rules is unsafe

Answer: Q(x,y,z)<-U(x,y) AND T(x,y) AND NOT T(x,z)

24. Suppose two relations Project (number, name, location, department) and Department(number, name).Evaluate the following SQL statement: SELECT D.number, D.name, P.number, P.name FROM Department D LEFT OUTER JOIN Project P ON (D.number = P.department);

Answer: ..department irrecpective of whether they control projects or not

25. Which of the following expression represents the below constraint on relation R(A:int,B:int,C:int): For every tuple in R, the value on A must be greater than the value on B or value on C must be less than the sum of value on A and value on B

Answer: sA->B OR C < A + B( R ) =

26. which of the following statement is used to delete all data from table EMPLOYEES except its schema

Answer: DELETE FROM EMPLOYEES

27. which of the followings has the same meaning as attribute-based constraint?

Ventity-based constraint

28. When we define an attribute A as PRIMARY KEY of relation R, then \_\_\_\_\_\_\_\_\_\_\_\_

Answer: all of the others

29. An attributes in\_\_\_\_\_\_\_\_\_\_\_\_ are only integers and character strings

Answer: ODL

30. How can we convert the subclass structures to relations

Answer: contruct a single relation for whole hierarchy of entity sets

31. Which of the following statements is true about the User Defined Type?

Answer: all of the others

32. Which of the followings is true about SQL session?

Answer: The session lasts as long as the connection that created it

33. Which of the followings is false about weak entity set?

Answer: The key for a weak entity set includes the keys for all supporting entity sets

34. What do we say about views?

Answer: all of the others

35. Given two relation tblEmployee(EmployeeID,EmployeeName,Salary,Department) and tblDepartment(DepartmentID, DepartmentName,Manager,AssignData).Suppose that Scott is granted as followed: GRANT SELECT, UPDATE ON tblEmployee TO Scott; GRANT SELECT(DepartmentID, Manager) ON tblDepartment to Scott;Which of the following statements is available for Scott?

Answer: all of the others

36. Which of the followings is right about attributes on XML documents?

Answer: DTD is a grammar-like set of rules to ensure that a XML document must be well-formed

37. Suppose the relation Employee(SSN, Fullname,Salary, SupervisorSSN).Consider the following condition: NOT EXISTS(SELECT\*FROM EMPLOYEE WHERE SupervisorSSN NOT IN (SELECT SSN FROM EMPLOYEE)).Which of the following activities may violate this condition?

Answer: all of the others

38. Which of the followings evolves to information integration?

Answer: None of the others

39. Which of the followings was the first ever used for data model

Answer: file System

40. Suppose the relation SALE(item, cusomter, quantity, price) with more than billion tuples from the large database. We try to provide a rapid random and sequential access to this table by\_\_\_\_\_\_\_\_\_

Answer: ..make the viewProjectNo1 unusable

41. Suppose the relation WorksOn(project, employee, hoursperweek).Consider the following query:Listing all those projects with at least 10 workers.The condition 'at least 10 worker' must be\_\_\_\_\_\_\_\_

Answer: appeared in HAVING clause as condition con classified groups

42. An A attribute is called the key of relation R if\_\_\_\_\_\_\_\_\_\_\_\_

Answer: all of the others

43. Where cannot we use PSM procedures?

Answer: None of the others

44.View is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Answer: None of the others

45. \_\_\_\_\_\_\_manage the interations with the user

Answer: The webserver-tier processes

46. Suppose the relation R(A,B,C,D) and set of FDs A->B,B->C,C->D. Suppose the projection R1=PA,C,D®

Answer: A->C, A->D

47. Suppose two relations tblEmployee(EmployeeID, EmployeeName, Salary, memberOf(\*tblDepartment)) and tblDepartment(DepartmentID,DepartmentName,managerIs(tblEmployee)).What doeas the meberOf(tblDepartment) mean?

Answer: ..is a single tuple of relation schema named tblDepartment

48. Suppose two predefined types AuthorType and BookType in UDT. We have defined two relations named Authors and Books based on these types.To present the statement 'Which authors have written which books we define the table Writes.Which of the followings is valid definition for Writes table?

Answer: W author REF(Type),book REF(BookType));

49. Which of the followings is false about E/R model?

Answer: .. very simple types, e.g integers or character strings

50. Which of the following statements is true?

Answer: A recursion in Datalog can be expressed in relational algebra

51. Suppose the relation Employee(SSN:char(12),Supervisor:char(12),Num\_Of\_Supervised:int),where Supervisor indicates that who supervises the current employee, and Num\_Of\_Supervised indicates that how many employees are supervised by this employee.Which of the followings is not allowed in SQL Server 2005

Answer: None of the others

52. Suppose the relation Employee(SSN, Fullname,Salary, SupervisorSSN).Consider the following query: SELECT\*FROM Employee WHERE NOT EXISTS(SELECT\*FROM Employee WHERE SSN=SupervisorSSN)

Answer: .. successfully, and return all those employees who don't supervise any other employee

53. Given two relation tblEmployee(EmployeeID,EmployeeName,Salary,Department).Suppose we connected to SQL with Scott authorization ID.Which of privileges must Scott have to execute the following statement: DELETE FROM tblEmployee WHERE EmployeeID IN(SELECT EmployeeID FROM tblEmployee WHERE department IS NULL)

Answer: DELETE on tblEmployee

54. which of the followings doesn't take the key's condition 'no two tuples agree on all attributes of key'?

Answer: foreign key

55. Suppose we have two elements Department and Project. The Department element has a key named depKey on the attribute DepartmentNo. The Project has an attribute named DepartmentNo, and we'd like to define it as foreign key.Which of followings can be use?

Answer: <xs:keyref name="depRef" refers="depKey"><xs:selector:xpath="Project"/><xs:field xpath="DepartmentN 0"/></xs:keyref>

56. suppose relation R(A,B,C,D,E) and set of FD's S={A->B,B->D,AD->C}.Find on the key of R

Answer: {A}

57. Suppose the relation Employee(SSN,Name,Salary,Department).Which of the followings returns all those employees with salary exceeds salary of all employees from department 1

Answer: all of the others

58. Which of the followings is not true about XML documents

Answer: XML data is presented in one or more documents

59. Suppose relation R(A,B,C,D,E) and set of FD's A->D,AD->C,C->BE.Compute {A}+

Answer: {A,D,C,B,E}

60. Database users can connect to database management system as\_\_\_\_\_\_\_\_\_\_\_\_

Answer: all of the others

61. Any Create command maybe reserved by using a \_\_\_ command

Answer: Commit

62. Suppose a relation R(A,B,C) where all attributes are numeric and we'd like to create a modifying view. Which of followings is valid?

Answer: All of the others

63. The keyword WITH CUBE is used in \_\_\_clause

Answer: GROUP BY

Chap2

Marks: 1

\_\_\_\_\_\_\_\_\_\_\_ is a language to access and manipulate data from a database. Even non-programmers can use it to

retrieve and update data.

Choose one answer.

a. PHP

b. ODBC

c. Structured Query Language

d. ASP

Answer: Structured Query Language

Question 2

Marks: 1

A person’s name, birthday, and social security number are all examples of :

Choose one answer.

a. entities

b. relationships

c. descriptors

d. attributes

Answer: attributes

Question 3

Marks: 1

A domain definition consists of the following components EXCEPT:

Choose one answer.

a. integrity constraints

b. size

c. data type

d. domain name

Answer: integrity constraints

Question 4

----------------------- Page 2-----------------------

Marks: 1

Which of the following is software used to create, maintain, and provide controlled access to databases?

Choose one answer.

a. Attribute

b. Network operating system

c. User view

d. Database management system

Answer: Database management system

Question 5

Marks: 1

In the SQL language, the \_\_\_\_\_\_\_\_\_\_ statement is used to create table definitions.

Choose one answer.

a. select

b. create session

c. create index

d. create table

Answer: create table

Question 6

Marks: 1

A database is an organized collection of \_\_\_\_\_ related data.

Choose one answer.

a. physically

b. loosely

c. logically

d. badly

Answer: physically

Question 7

Marks: 1

A join in which the joining condition is defined explicitly is called a ( n ):

Choose one answer.

a. Cartesian product

b. theta join

c. natural join

d. All of the other choices

Answer: theta join

Marks: 1 A join operation:

a. causes two disparate tables to be combined into a single table

b. is used to combine indexing operations

c. causes two tables with common attribute(s) to be combined into a single table

Answer: causes two tables with common attribute(s) to be combined into a single table

----------------------- Page 3-----------------------

d. brings together data from two different fields

Question 2

Marks: 1 Data Definition language (DDL) is used to:

a. query database and modify the database

b. connect to database and query database

c. declare database schemas

d. None of the others.

Question 4

Marks: 1 A property or characteristic of an entity type that is of interest to the organization is called a/an:

a. relationship

b. cross-function

c. attribute

d. coexisting entity

Answer: attribute

Question 5

Marks: 1 A join between two relations R and S over all common attributes based upon equality and one occurrence

of each common attribute is eliminated from the result is called a/an:

a. Cartesian product

b. Theta join

c. Natural join

d. None of the others.

Question 6

Marks: 1 Customers, cars, and parts are examples of :

Choose one answer. a. attributes

b. cardinals

c. entities

----------------------- Page 4-----------------------

d. relationships

chap 3

Question 1

Given a relation R(A,B,C,D) with dependencies A-->C, C->D. Which of the

followings doesn't hold in R?

Choose one answer.

a. C->->D

b. A->->D

c. A->D

d. A->C

Answer: A->C

Question 2

What is the property that good decomposition must have?

Choose one answer.

a. Elimination of anomalies

b. Recoverability of information

c. Preservation of dependencies

d. All of the others

Question 3

Given a relation R(A,B,C,D) with functional dependencies A->BC, C->D,

D->A. Find one key of R

Choose one answer.

a. {A,B,C}

----------------------- Page 5-----------------------

b. {A,B}

c. {A}

d. {A,B,C,D}

Answer: {A}

Question 4

Functional dependency is a constraint on \_\_\_\_\_\_\_\_\_\_

Choose one answer.

a. Two sets of attributes of a relation

b. Two sets of attributes from two different relations

c. Two different relations in database

d. A set of attributes of a relation

Answer: Two sets of attributes of a relation

Question 5

One attribute is called prime if \_\_\_\_\_\_\_\_\_\_

Choose one answer.

a. It is a member of candidate key

b. It is a member of super key

c. It is a member of primary key

d. It is a member of key

Answer: It is a member of key

Question 6

Choose the false statement about the decomposition into BCNF?

Choose one answer.

a. The decomposition eliminates all anomalies

----------------------- Page 6-----------------------

b. The relations of the decomposition are all in BCNF

c. The decomposition has the dependency preservation property

d. The decomposition has a lossless join

Answer: The decomposition has the dependency preservation property

Question 7

Choose a right statement

Choose one answer.

a. If X is a key, then X is a super key

b. A relation has only one key

c. If X is a super key, then X is a key

d. Primary key is a minimal key

Answer: If X is a key, then X is a super key

chap 4

Question 1

The principle strategy to convert subclasses to relations is \_\_\_\_\_\_\_\_\_

Choose one answer.

a. Follow the E/R viewpoint

b. Treat entities as objects belonging to a single class

c. Use null values

d. All of the others

Answer: All of the others(follow the E/R|Treat entities|use null value)

Question 2

Choose a wrong answer

Choose one answer.

a. Binary relationship is called association in UML

b. UML class is an entity set in E/R model

----------------------- Page 7-----------------------

c. One UML class has one key

d. UML offers multi-way relationships

Answer: UML offers multi-way relationships

Question 3

Choose a right answer

Choose one answer.

a. The value of one or more attributes can uniquely identify an entity

b. Entity set have associated attributes

c. Relationships can have attributes

d. All of the others

Answer: All of the others(The value of/entity set/relationshop)

Question 4

When we say one class has many students, and a student is a member of

one class, we mean that the multiplicity of this relationship from class

entity set to student entity set is \_\_\_\_\_\_\_\_\_

Choose one answer.

a. One - many

b. Many - many

c. One - one

d. Many - one

Answer: One - many

Question 5

An attribute (or attributes) that uniquely identifies each row in a

relation is called a/an:

Choose one answer.

----------------------- Page 8-----------------------

a. index key

b. duplicate key

c. primary key

d. foreign key

Answer: primary key

Question 6

Choose a wrong statement

Choose one answer.

a. E/R model represents the structure of data graphically

b. E/R model represents both the structure of data and the operations on data

c. E/R model uses three principle element types: entity sets,

attributes, and relationships

d. None of the others

Answer: E/R model represents both the structure of data and the operations

Question 7

The number of entity types that participate in a relationship is called

the :

Choose one answer.

a. degree

b. number

c. counter

d. cardinality

Answer: degree

1

----------------------- Page 9-----------------------

Marks: 1

A student can attend five classes, each with a different professor. Each professor has 30

students. The relationship of students to professors is a \_\_\_\_\_\_\_\_\_ relationship.

Choose one answer.

a. many - to - many

b. one - to - many

c. many - to - one

d. one - to - one

Answer: many - to - many

Question 3

Marks: 1

An entity type whose existence depends on another entity type is called a/an \_\_\_\_\_\_\_\_\_

entity.

Choose one answer.

a. strong

b. codependent

c. weak

d. variant

Answer: weak

Question 4

Marks: 1

A relationship between the instances of a single entity type is called \_\_\_\_\_\_\_\_ relationship.

Choose one answer.

a. binary

b. primary

c. ternary

d. unary

Answer: unary

Question 5

Marks: 1

The relation for the weak entity set W must include \_\_\_\_\_\_\_\_\_\_

Choose one answer.

a. All attributes of W

----------------------- Page 10-----------------------

b. Key attributes of the supporting entity sets

c. All attributes of supporting relationships for W

d. All of the others

Question 6

Marks: 1

The principle strategy to convert subclasses to relations is \_\_\_\_\_\_\_\_\_

Choose one answer.

a. Follow the E/R viewpoint

b. Treat entities as objects belonging to a single class

c. Use null values

d. All of the others

Question 7

Marks: 1

An attribute (or attributes) that uniquely identifies each row in a relation is called a/an:

Choose one answer.

a. primary key

b. foreign key

c. duplicate key

d. index key

Chap 5

Question 1

Marks: 1

An attribute of the relation R to which the ? is applied is called

\_\_\_\_\_\_\_\_\_\_

Choose one answer.

a. Grouping attribute

b. Aggregation attribute

----------------------- Page 11-----------------------

c. Composite attribute

d. None of the others

Answer: Grouping attribute

Question 2

Marks: 1

To convert a bag to a set, we use \_\_\_\_\_\_\_\_\_ operator

Choose one answer.

a. p

b. ?

c. d

d. s

Answer: d

Question 3

Marks: 1

Suppose R(A,B,C) is bag, S=sA>B(R). Choose a right answer

Choose one answer.

a. S has the same schema as R, and S has less or equal tuples than R has

b. A number of tuples in S is always equal to a number of tuples in R

c. A schema of S is different from a schema of R

d. None of the others

Answer: S has the same schema as R, and S has less or equal tuples than R has

Question 4

Marks: 1

Suppose a relation R(A,B,C) as a bag, and a relation S=pA,B(d(R)) as a

bag, too. R has 4 tuples (1,2,2), (1,3,2), (1,2,2), and (1,2,3). S has

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\_\_\_\_\_\_\_\_\_\_ tuples.

Choose one answer.

a. 4

b. 2

c. 3

d. 1

Answer: 3

Question 5

Marks: 1

Suppose a relation R(A,B) has 4 tuples (1,2), (2,3), (1,1), (2,4). A

result of ?A,SUM(B)?SUM(R) is \_\_\_\_\_\_\_\_\_\_

Choose one answer.

a. A relation has 2 tuples (1,3), (2,7)

b. A relation has 4 tuples (1,2), (2,3), (1,1), (2,4)

c. A relation has 3 tuples (2,3), (4,7)

d. None of the others

Answer: A relation has 2 tuples (1,3), (2,7)

Question 6

Marks: 1

Suppose a relation R(A,B) and S(B,C) as a bags. R has 2 tuples (1,2),

(1,4) and S has 3 tuples (2,3), (4,5) and (4,5). The theta-join R ?

\_R.B<S.B S has \_\_\_\_\_\_\_\_\_\_ tuples

Choose one answer.

a. 3

b. 4

----------------------- Page 13-----------------------

c. 5

d. 2

Answer: 2

Question 7

Marks: 1

Choose one answer.

a. This operation is valid and the result has one tuple

b. This operation is valid and the result has two tuples

c. This operation is valid and the result has three tuples

d. This operation is invalid because the attribute names of two

Answer: This operation is valid and the result has three tuples

relations are not the same

Question 3

Marks: 1

Function parameters may be of mode \_\_\_\_\_\_\_\_\_\_

Choose one answer.

a. INOUT

b. All of the others

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c. OUT

d. IN

Answer: IN

Quiz Chapter 02

Question 1

Marks: 1

Which of the following types of data can be stored in a database?

Choose one answer.

a. Voice

b. Letters

c. Numbers

x d. All of the others

Answer: All(voice/letters/numbers)

Question 2

Marks: 1

A domain definition consists of the following components EXCEPT:

Choose one answer.

a. data type

b. size

c. domain name

x d. integrity constraints

Answer: integrity constraints

Question 3

Marks: 1

A join in which the joining condition is defined explicitly is called a ( n ):

Choose one answer.

a. Cartesian product

x b. theta join

c. natural join

d. All of the other choices

Answer: theta join

Question 4

Marks: 1

A person’s name, birthday, and social security number are all examples of :

Choose one answer.

x a. attributes

b. relationships

c. descriptors

d. entities

Answer: attributes

Question 5

Marks: 1

Customers, cars, and parts are examples of :

Choose one answer.

a. attributes

b. cardinals

x c. entities

d. relationships

Answer: entities

Question 6

Marks: 1

In the SQL language, the \_\_\_\_\_\_\_\_\_\_ statement is used to create table definitions.

Choose one answer.

a. select

b. create session

c. create index

x d. create table

Answer: create table

Question 7

Marks: 1

A join operation:

Choose one answer.

a. causes two disparate tables to be combined into a single table

b. is used to combine indexing operations

c. brings together data from two different fields

x d. causes two tables with common attribute(s) to be combined into a single table

Answer: causes two tables with common attribute(s) to be combined into a single table

Quiz Chapter 03

Question 1

Marks: 1

Which of the followings is not characteristic of the synthesis algorithm for 3NF schemas?

Choose one answer.

a. The relations of the decomposition are all in 3NF

b. The decomposition has a lossless join

c. The decomposition has the dependency preservation property

x d. The decomposition eliminates the anomalies

Answer: The decomposition eliminates the anomalies

Question 2

Marks: 1

Two sets of FD’s S and T are equivalent if \_\_\_\_\_\_\_\_\_\_

Choose one answer.

a. None of the others

b. T follows from S

c. S follows from T

x d. S follows from T and T follows from S

Answer: S follows from T and T follows from S

Question 3

Marks: 1

Which of the following statement is incorrect?

Choose one answer.

a. A relation with only two attributes is in BCNF

b. A relation with only two attributes is in 3NF

c. A relation in the BCNF is in 3NF

x d. None of the others

Answer: None of the others(A relation with/ A relation in)

Question 4

Marks: 1

Given a relation R(A,B,C,D) with functional dependencies A->BC, C->D, D->A. Find one key of R

Choose one answer.

a. {A,B}

b. {A,B,C}

c. {A,B,C,D}

x d. {A}

Answer: {A}

Question 5

Marks: 1

Choose the false statement about the decomposition into BCNF?

Choose one answer.

a. The relations of the decomposition are all in BCNF

b. The decomposition has a lossless join

c. The decomposition eliminates all anomalies

x d. The decomposition has the dependency preservation property

Answer: The decomposition has the dependency preservation property

Question 6

Marks: 1

Given a relation R(A,B,C,D) with dependencies A->B, C->D. Which of the followings holds in R?

Choose one answer.

a. AB->D

b. A->D

c. None of the others

x d. ABC->D

Answer: ABC->D

Question 7

Marks: 1

Suppose relation R(A,B,C,D), and a set of FD’s S={A->B, B->C, C->D}. Which of the followings is the result of R’s decomposition into BCNF?

Choose one answer.

a. {A,B,C}, {C,D}

b. {A,B}, {B,C,D}

c. {A,B}, {B,D}, {D,C}

x d. {A,B}, {B,C}, {C,D}

Answer: {A,B}, {B,C}, {C,D}

Quiz Chapter 04

Question 1

Marks: 1

Choose a wrong answer

Choose one answer.

a. Binary relationship is called association in UML

X b. UML offers multi-way relationships

c. UML class is an entity set in E/R model

d. One UML class has one key

Answer: UML offers multi-way relationships

Question 2

Marks: 1

A student can attend five classes, each with a different professor. Each professor has 30 students. The relationship of students to professors is a \_\_\_\_\_\_\_\_\_ relationship.

Choose one answer.

a. many - to - one

b. one - to - one

X c. many - to - many

d. one - to - many

Answer: many - to - many

Question 3

Marks: 1

A relationship between the instances of a single entity type is called \_\_\_\_\_\_\_\_ relationship.

Choose one answer.

a. primary

b. ternary

c. binary

X d. unary

Answer: unary

Question 4

Marks: 1

An entity type whose existence depends on another entity type is called a/an \_\_\_\_\_\_\_\_\_ entity.

Choose one answer.

a. variant

X b. weak

c. strong

d. codependent

Answer: weak

Question 5

Marks: 1

The number of entity types that participate in a relationship is called the :

Choose one answer.

a. counter

b. number

X c. degree

d. cardinality

Answer: degree

Question 6

Marks: 1

The relation for the weak entity set W must include \_\_\_\_\_\_\_\_\_\_

Choose one answer.

a. All attributes of W

b. Key attributes of the supporting entity sets

c. All attributes of supporting relationships for W

X d. All of the others

Answer: All of the others (All attribute/key attribute)

Question 7

Marks: 1

In E/R model, one entity set can appear \_\_\_\_\_\_\_\_\_ in a relationship

Choose one answer.

a. Three times

X b. Indefinite number of times

c. Two times

d. One time

Answer: Indefinite number of times

Quiz Chapter 05

Question 2

Marks: 1

To convert a bag to a set, we use \_\_\_\_\_\_\_\_\_ operator

Choose one answer.

a. `\gamma`

b. `\pi`

X c. `\delta`

d. `\sigma`

Answer: `\delta`

Question 3

Marks: 1

Suppose a relation R(A,B) and S(B,C) as a bags. R has 2 tuples (1,2), (1,4) and S has 3 tuples (2,3), (4,5) and (4,5). The theta-join R ? R.B<S.B S has \_\_\_\_\_\_\_\_\_\_ tuples

Choose one answer.

X a. 2

b. 4

c. 5

d. 3

Answer: 2

Question 5

Marks: 1

Choose one answer.

a. This operation is valid and the result has one tuple

X b. This operation is valid and the result has three tuples

c. This operation is invalid because the attribute names of two relations are not the same

d. This operation is valid and the result has two tuples

Answer: This operation is valid and the result has three tuples

Question 6

Marks: 1

Suppose R and S are bags, R and S are type compatible, and t is the tuple that appears n times in R, and m times in S (n=0, m=0). How many times doest t tuple appear in R\S ?

Choose one answer.

a. n+m times

b. MIN(n,m)

X c. MAX(0,n-m)

d. None of the others

Answer: MAX(0,n-m)

Question 7

Marks: 1

Suppose R(A,B,C) is bag, S= s(A>B) (R). Choose a right answer

Choose one answer.

X a. S has the same schema as R, and S has less or equal tuples than R has

b. A number of tuples in S is always equal to a number of tuples in R

c. A schema of S is different from a schema of R

d. None of the others

Answer: S has the same schema as R, and S has less or equal tuples than R has

Quiz Chapter 06

Question 1

Marks: 1

Which SQL isolation level does not allow dirty reads, non-repeatable reads, and phantoms ?

Choose one answer.

a. Read Committed

b. Read Uncommitted

c. Repeatable Read

X d. Serializable

Answer: Serializable

Question 2

Marks: 1

With SQL, how do you select all the records from a table named "Employee" where the value of the column "FirstName" starts with an "a"?

Choose one answer.

a. SELECT \* FROM Persons WHERE FirstName='a'

b. SELECT \* FROM Persons WHERE FirstName LIKE '%a'

X c. SELECT \* FROM Employee WHERE FirstName LIKE 'a%'

d. SELECT \* FROM Employee WHERE FirstName='%a%'

Answer: SELECT \* FROM Employee WHERE FirstName LIKE 'a%'

Question 3

Marks: 1

Suppose a relation R has two numeric non-null attributes A, B. Which of the following queries do we use to count the number of tuples in R ?

Choose one answer.

a. SELECT COUNT(\*) FROM R

b. SELECT COUNT(A) FROM R

c. SELECT COUNT(B) FROM R

X d. All of the others

Answer: All of the others(SELECT COUNT(A/B/\*))

Question 4

Marks: 1

Suppose a relation R has two attributes A and B. Choose a valid query

Choose one answer.

a. SELECT A, B, COUNT(\*) FROM R GROUP BY A

X b. SELECT A, B, COUNT(\*) FROM R GROUP BY A, B

c. SELECT A, COUNT(\*) FROM R GROUP BY B

d. All of the others

Answer: SELECT A, B, COUNT(\*) FROM R GROUP BY A, B

Question 5

Marks: 1

With SQL, how do you select all the columns from a table named "EMPLOYEE"?

Choose one answer.

a. SELECT P.\* FROM EMPLOYEE P

X b. All of the others

c. SELECT ALL \* FROM EMPLOYEE

d. SELECT \* FROM EMPLOYEE

Answer: All of the others (SELECT P/ALL/\*)

Question 6

Marks: 1

Sub-queries cannot appear in \_\_\_\_\_\_\_\_\_\_

Choose one answer.

a. WHERE clause

b. HAVING clause

X c. GROUP BY clause

d. FROM clause

Answer: GROUP BY clause

Question 7

Marks: 1

The result of ((10<NULL) OR TRUE) AND (UNKNOWN OR FALSE) is

Choose one answer.

a. TRUE

b. FALSE

X c. UNKNOWN

d. NULL

Answer: UNKNOWN

Quiz Chapter 06

Question 1

Marks: 1

Suppose a relation S has three numeric attributes A, B, and C. Choose a valid query

Choose one answer.

a. SELECT A, SUM(B) FROM S GROUP BY A HAVING B<20

x b. SELECT A, SUM(\*) FROM S GROUP BY A HAVING COUNT(B)<20

c. SELECT A, SUM(C) FROM S GROUP BY A HAVING COUNT(\*) <20

d. None of the others

Answer: SELECT A, SUM(\*) FROM S GROUP BY A HAVING COUNT(B)<20

Question 2

Marks: 1

Suppose a relation R has two numeric non-null attributes A, B. Which of the following queries do we use to count the number of tuples in R ?

Choose one answer.

a. SELECT COUNT(\*) FROM R

b. SELECT COUNT(A) FROM R

c. SELECT COUNT(B) FROM R

x d. All of the others

Answer: All of the others(SELECT COUNT(\*/A/B))

Question 3

Marks: 1

Which SQL keyword is used to sort the result-set?

Choose one answer.

a. SORT

b. SORT BY

c. ORDER

x d. ORDER BY

Answer: ORDER BY

Question 4

Marks: 1

Suppose two relations R(A,B,C) and S(A,B,C) are type compatible, where A, B, C are numeric attributes. Which of the following queries is invalid ?

Choose one answer.

a. INSERT INTO R(A,B,C) VALUES (1,2,3);

b. INSERT INTO R VALUES (1,2,3);

c. INSERT INTO R(A, B, C) SELECT \* FROM S;

x d. None of the others

Answer: None of the others(INSERT INTO R)

Question 5

Marks: 1

With SQL, how do you select all the records from a table named "Employee" where the value of the column "FirstName" starts with an "a"?

Choose one answer.

a. SELECT \* FROM Persons WHERE FirstName LIKE '%a'

x b. SELECT \* FROM Employee WHERE FirstName LIKE 'a%'

c. SELECT \* FROM Employee WHERE FirstName='%a%'

d. SELECT \* FROM Persons WHERE FirstName='a'

Answer: SELECT \* FROM Employee WHERE FirstName LIKE 'a%'

Question 6

Marks: 1

Which of the followings is not part of Data Manipulation Language (DML)?

Choose one answer.

a. SELECT statement

x b. CREATE statement

c. UPDATE statement

d. INSERT statement

Answer: CREATE statement

Question 7

Marks: 1

Suppose a relation R has two attributes A and B. Choose a valid query

Choose one answer.

a. SELECT A, B, COUNT(\*) FROM R GROUP BY A

x b. SELECT A, B, COUNT(\*) FROM R GROUP BY A, B

c. SELECT A, COUNT(\*) FROM R GROUP BY B

d. All of the others

Answer: SELECT A, B, COUNT(\*) FROM R GROUP BY A, B

Quiz Chapter 07

Question 1

Marks: 1

The another name of referential integrity constraint is \_\_\_\_\_\_\_\_\_\_\_

Choose one answer.

a. Not-null constraint

b. Domain-based constraint

X c. Foreign key constraint

d. None of the others

Answer: Foreign key constraint

Question 2

Marks: 1

Choose a right answer

Choose one answer.

a. We cannot give a name for primary key constraint

b. We must delete all constraints of a relation before dropping that relation

X c. On default, any modification violating the referential integrity constraint is rejected

d. All of the others

Answer: On default, any modification violating the referential integrity constraint is rejected

Question 3

Marks: 1

Suppose there are two relations R(A,B,C) and S(D,E,F), and a referential integrity constraint from D of S to A of R, where A is a primary key of R. Which of the followings can violate this constraint ?

Choose one answer.

a. Insert a new tuple to the relation R

x b. Insert a new tuple to the relation S

c. Delete an exist tuple from the relation S

d. All of the others

Answer: Insert a new tuple to the relation S

Question 4

Marks: 1

Choose an invalid query

Choose one answer.

X a. 1

b. 1

c. 1

d. None of the others

Question 5

Marks: 1

When a CHECK constraint associate to many tuples on one or more relations, we must create

Choose one answer.

a. Attribute-based CHECK constraint

b. Domain-based CHECK constraint

c. Tuple-based CHECK constraint

x d. None of the others

Answer: None of the others

Question 7

Marks: 1

When a referential integrity constraint is violated, the designer can use \_\_\_\_\_\_\_\_\_\_

Choose one answer.

a. The Default Policy

b. The Cascade Policy

c. The Set-Null Policy

X d. All of the others

Answer: All of the others(The default/cascade/set-null)

Quiz Chapter 08

Question 1

Marks: 1

Suppose a relation R(A,B,C) with three numeric attributes, RC(A,B) is an updatable view associated to R where C=1. Evaluate the following statement:

DELETE FROM RC(A,B) WHERE A=1

Choose one answer.

a. The query cannot be executed

b. The query is executed but nothing happened on R neither on S

c. The query is executed, it deletes from R all those tuples, which has value 1 on component A

x d. The query is executed, it deletes from R all those tuples, whose value on component A is 1, and value on component C is 1, too

Answer: The query is executed, it deletes from R all those tuples, whose value on component A is 1, and value on component C is 1, too

Question 2

Marks: 1

The most useful index on a relation is an index on its key. This is because:

Choose one answer.

a. The index on non key attribute(s) runs slower

x b. Queries in which a value for the key is specified are common, so an index on the key will get used frequently. In addition, there is at most one tuple with a given key value, the index also returns either nothing or one location for a tuple.

c. The index on non key attribute(s) makes update operations to the relation more complex and time-consuming

d. All of the others

Answer: Queries in which a value for the key is specified are common, so an index on the key will get used frequently. In addition, there is at most one tuple with a given key value, the index also returns either nothing or one location for a tuple.

Question 3

Marks: 1

Choose the right statement

Choose one answer.

x a. All of the others

b. We can create as many indexes as we wish, but we need to analyze the trade-off

c. We can create index on a multiple attributes

d. We can create index on a single attribute

Answer: All of the others(We can create)

Question 4

Marks: 1

Choose the right statement

Choose one answer.

a. A view can be created that uses more than one table or other views with a SELECT clause of any complexity

b. All of the others

c. A view can be created logically from other views

x d. A view can be created logically from other tables

Answer: A view can be created logically from other tables

Question 5

Marks: 1

Suppose a relation R(A,B,C) where all attributes are numeric. Choose a valid query to create an updatable view.

Choose one answer.

a. CREATE VIEW RS SELECT A,B FROM R WHERE C=5;

x b. CREATE VIEW RS AS SELECT A,B FROM R R1, R R2 WHERE R1.C=R2.C AND R1.A<>R2.A;

c. CREATE VIEW RS AS SELECT A,B FROM R R1 WHERE C IN (SELECT R2.C FROM R R2 WHERE R.C=R2.C);

d. None of the others

Answer: CREATE VIEW RS AS SELECT A,B FROM R R1, R R2 WHERE R1.C=R2.C AND R1.A<>R2.A;

Question 6

Marks: 1

Given the relation Movies(title, year, length, genre, studioName). Select the right query to create a view with the titles and studio names of all movies that were produced in 1980

Choose one answer.

x a. CREATE VIEW OldMovies AS SELECT title, studioName FROM Movies where year=1980

b. None of the others

c. CREATE VIEW OldMovies SELECT title, studioName FROM Movies where year=1980

d. CREATE VIEW OldMovies AS SELECT title, year FROM Movies where year=1980

Answer: CREATE VIEW OldMovies AS SELECT title, studioName FROM Movies where year=1980

Question 7

Marks: 1

A clustering index is \_\_\_\_\_\_

Choose one answer.

x a. An index that is defined on non-key field(s) and there can be more than one record corresponding to a value of the indexing field

b. None of the others

c. An index that is built on key field(s)

d. An index that is defined on the ordering key field, which is guaranteed to have a unique value in each record

Answer: An index that is defined on non-key field(s) and there can be more than one record corresponding to a value of the indexing field

Quiz Chapter 09 - Attempt 1

Question 1

Marks: 1

What does the application tier do?

Choose one answer.

a. Managing the interactions with users

b. Executing queries that requested from the higher tier

x c. Turning data from the database into a response to the request that it receives from the webservers

d. None of the others

Answer: Turning data from the database into a response to the request that it receives from the webservers

Question 2

Marks: 1

When a user makes contact, a \_\_\_\_\_\_\_\_\_\_ response to the request, and the user becomes a client of this \_\_\_\_\_\_\_\_\_\_ process.

Choose one answer.

a. application, webserver

x b. webserver, webserver

c. webserver, application

d. application, application

Answer: webserver, webserver

Question 3

Marks: 1

The actions performed by the \_\_\_\_\_\_\_\_\_\_ tier are often referred to as the business logic of the organization operating the database

Choose one answer.

a. None of the others

b. Web-server

x c. Application

d. Database

Answer: Application

Question 4

Marks: 1

After defining a persistent stored modules, we can call it \_\_\_\_\_\_\_\_\_\_

Choose one answer.

a. From a host-language program

x b. All of the others

c. As a statement of another persistent stored modules

d. In generic SQL interface

Answer: All of the others(From a host/As a statement/In generic)

Question 5

Marks: 1

In PSM we can break out of the loop by using \_\_\_\_\_\_\_\_\_\_ statement.

Choose one answer.

x a. LEAVE ;

b. QUIT ;

c. BREAK ;

d. EXIT ;

Answer: LEAVE

Question 6

Marks: 1

1. In PSM we define an exception handler as followed:

DECLARE <where to go next> HANDLER FOR <condition list> <statement>

with <where to go next> clause cannot be \_\_\_\_\_\_\_\_\_\_

Choose one answer.

a. EXIT

x b. GOTO

c. CONTINUE

d. UNDO

Answer: GOTO

Question 7

Marks: 1

In PSM, the difference between a stored procedure and a function is that \_\_\_\_\_\_\_\_\_\_

Choose one answer.

x a. A function has the return statement

b. Loops are not allowed in a function

c. All of the others

d. We can declare local variables in a functions

Answer: A function has the return statement

Quiz Chapter 10

Question 1

Marks: 1

Suppose a user-defined type is declared as follows:

CREATE TYPE AddressType AS (street CHAR(30), city CHAR(30));

Which of the following is a generator method of AddressType ?

Choose one answer.

a. All of the others

b. AddressType(s,c);

c. AddressType(s);

x d. AddressType();

Answer: AddressType();

Question 2

Marks: 1

We can turn the result of a query into a data cube by appending \_\_\_\_\_\_ to a group-by clause

Choose one answer.

a. WITH STAR

b. WITH AGGREGATE

x c. None of the others

d. WITH SUM

Answer: None of the others (WITH STAR/AGGREGATE/SUM)

Question 3

Marks: 1

Which of the following statements is wrong?

Choose one answer.

a. In object-relational model, the type of an attribute also can be a reference to a tuple with a given schema or a set of references to tuples with a given schema

b. In object-relational model, a value of one component of a tuple can not be an entire relation

c. Object-relational model allows a type that is a bag of structs, which is essentially a relation

x d. None of the others (In obj-relational modelx3)

Answer: None of the others

Question 4

Marks: 1

Given two relations Department(ID, Name) and Employee(ID, Fullname, depName).

Suppose we connect to SQL database with "Picard" authorization ID. What privileges must Picard have to execute the following statement:

INSERT INTO Department(name)

SELECT DISTINCT depName

FROM Employee

WHERE depName NOT IN

(SELECT name FROM Department);

Choose one answer.

a. Privileges for INSERT(name) ON Department and SELECT(depName) ON Employee

b. Privileges for INSERT ON Department and SELECT ON Employee

x c. Privileges for INSERT, SELECT ON Department and SELECT ON Employee

d. Privileges for INSERT ON Department and SELECT, INSERT ON Employee

Answer: Privileges for INSERT, SELECT ON Department and SELECT ON Employee

Question 5

Marks: 1

1. Select the right statement to declare MovieStar to be a relation whose tuples are of type StarType. Note: StarType is a user-defined type that has its definition as follows:

CREATE TYPE StarType AS (

name CHAR(30),

address CHAR(100) );

Choose one answer.

a. CREATE TABLE MovieStar (name StarType PRIMARY KEY );

b. CREATE TABLE MovieStar (name StarType );

c. None of the others

x d. CREATE TABLE MovieStar OF StarType ();

Answer: CREATE TABLE MovieStar OF StarType ();

Question 6

Marks: 1

Choose the right statement

Choose one answer.

a. A UDT can be the type of an attribute belonging to some table

b. A User-Defined Type (UDT) in SQL can be the type of a table

x c. All of the others

d. The form of UDT definition is: CREATE TYPE T AS ();

Answer: All of the others (A UDT/User-defined type/form of UDT)

Question 7

Marks: 1

Choose a right statement

Choose one answer.

a. Every user must have an authorization ID if he/she wants to connect to database

b. SQL has a special authorization ID called PUBLIC, which includes any user

c. Authorization ID may be granted privileges from others or may give its privileges to others

x d. All of the others (Every user/SQL has a/Authorization)

Answer: All of the others

Quiz Chapter 11

Question 1

Marks: 1

Which of following definition is wrong (that is this XML document is not well-formed) ?

Choose one answer.

a. 1

x b. 1

c. 1

d. None of the others

Answer:

Question 2

Marks: 1

Which of the followings is not true about XML documents?

Choose one answer.

a. Well-formed XML document has a root element that is the entire body of the text

b. XML is a tag-based notation designed originally for marking documents, much like the familiar HTML

c. XML can have attributes within its open tag

x d. Conversion from XML documents to relational database is straightforward

Answer: Conversion from XML documents to relational database is straightforward

Question 3

Marks: 1

Which of the followings is right about semistructured data representation?

Choose one answer.

a. There are some root nodes, they don't have arc in, and every other nodes may be reachable from one of them

b. There are many interior nodes, each of them has only one arc out

x c. There is only one root, it has no arc in, and every other nodes must be reachable from this node

d. All of the others

Answer: There is only one root, it has no arc in, and every other nodes must be reachable from this node

Question 4

Marks: 1

Some things to consider when creating valid XML documents are \_\_\_\_\_\_\_\_\_\_

Choose one answer.

a. We use whatever tags that we wishes

b. We must begin with a declaration that it is XML

x c. All of the others

d. We must have a root element that is the entire body of the text

Answer: All of the others (We use whatever/must begin/must have)

Question 5

Marks: 1

An attribute presents as \_\_\_\_\_\_\_\_\_\_ of semi structured database

Choose one answer.

a. Arc

b. Interior node

c. Role

x d. Leaf node

Answer: Leaf node

Question 6

Marks: 1

Which of the followings is right about well-formed XML documents?

Choose one answer.

a. Must have a root element that is the entire body of the text

b. Must involve document type definition

x c. All of the others

d. Must begin with a declaration that it is XML

Answer: All of the others (Must have/involve/begin)

Question 7

Marks: 1

Which of followings is part of semistructured data’s representation

Choose one answer.

a. Root node

b. Leaf nodes

c. Interior nodes

x d. All of the others

Answer: All of the others(Root node/leaf node/ interior node)

1. Suppose two relations R1(A,B), R2(C,D) and the theta join R3 := R1 ... R2.

Which of the followings is correct?

Answer: Each tuple t1 of R1 connect with all those tuple t2 of R2 if t1.B < t2.C

2. In referential integrity constraint, the referenced attribute(s) must be

Answer: Primary key, Unique key

3. \_\_\_ connect web-clients to the database system, usually over the Internet or possibly a local connection.

Answer: Web server processes

4. Suppose a relatation SALE(item, customer, quantity, price) with more than billion tuples from the large database. We must \_\_\_\_ to speed up the execution of certain queries.

Answer: create some indexes

5. Which of the following is TRUE about semi-structured data?

Answer: It is self\_describing

6. Which of the followings is characteristic of object relational data model?

Answer: All (Iden+Struc+Method)

7. Suppose R(A,B) and S(B,C) are bags. R has four tuples (1,1), (1,1), (1,2) and (1,2). S has three tuples (1,2), (2,1), (2,2). Evaluate the (R)\S operation.

Answer: This operation is valid and the result has one tuples

8. Which of following keywords can be used in well-formed XML document?

Answer: All(PCData,IMPLIED,REQUIRED)

9. Which of the following is the responsibility of DTD?

Answer: All(3 defines-contraint/element/operation)

10. In PSM we can break out of the loop by using \_\_\_ statement.

Answer: LEAVE

11. The ER Diagram uses three principle element types:

Answer: Entity sets/Attribute/Relation

12. Suppose R(A,B) and S(B,C) are bags. R has four tuples (1,1), (1,1), (1,2) and (1,2). S has three tuples (2,1), (2,2). Evaluate the R\*S operation, where \* denotes the left outer join.

Answer: This operation is valid and the result has six tuples.

13. Suppose a relation Employee(SSN, Name, Supervisor). The view Supervisor is defined as followed:

CREATE VIEW Supervisor AS SELECT SSN, Name FROM Employee WHERE SSN NOT IN(SELECT Supervisor FROM Employee).

Which of the following is executable in Supervisor?

Answer: None (Insert-Delete-Update)

14. The result of (UNKNOWN OR TRUE) is

Answer: TRUE

15. Suppose the following statement:

CREATE TABLE STUDENT (SSN INT PRIMARY KEY, FULLNAME NVARCHAR(100), GENDER CHAR(1) DEFAULT 'F', AGE INT DEFAULT '18', CHECK GENDER IN ('F','M'));

Answer: This statement has error in GENDER declaration, no newtable is created.

16. In SQL language, the command/statement that let you change the schema of a relation is:

Answer: Alter

17. Consider a relation with schema R(A, B, C, D) and FD's BC->D, D->A, A->B. Which of the following is the key of R?

Answer: BC

18. Given two relations Department(ID, Name) and Employee(ID, Fullname, depID).

Suppose we connected to SQL with Picard authorization id. Which of privileges must Picard have to execute the following statement:

DELETE FROM Department

WHERE ID NOT IN (SELECT depID FROM Employee)

Answer: Privilege for delete on Department and select on Employee

19. Data Definition language (DDL) is used to...

Answer: declare database schemas

20. Suppose a relation R has two not null numeric attributes A,B. Which of the following queries do we use to count the number of tuples in R?

Answer: All(3 Select Count A/Count B/Count\*)

21. Which of the following statements is TRUE? Key is the superkey. Superkey is the minimal key of relation. A relation can have only one key.

Answer: Key is the superkey.

22. Which of the following is the principle element type of ER diagram?

Answer: All ( Attri/Entity/Relation)

23. When we define an attribute A as PRIMARY KEY of relation R, then

Answer: There are no two tuples that have the same values on the A component.

24. Which of the followings statements is valid? If A->b, b->->C hold in relation R, then A->->C holds, too.

Answer: If A->b, b->->C hold in relation R, then A->->C holds, too.

25. The keyword WITH ROLLUP is used in \_\_\_ clause

Answer: GROUP BY

26. Suppose a relation Employee(SSN, Name, Birthdate), and a constraint based on Birthdate. Which of the following action doesn't violate this constraint?

Answer: Delete an exist employee

27. Suppose relation R(A,B,C,D,E), and set of FD's S={ a->D, BD->E}. Which of the followings is a key of R?

Answer: {A,B,C}

28. Which of the followings is TRUE about weak entity set?

Answer: All(Do not construct/Key for a weak/Weak entity set has one..)

29. Suppose the relation Employee(SSN,Fullname,SupervisorSSN). Evaluate the following query:

SELECT \* FROM Employee

WHERE SSN IN (SELECT SupervisorSSN FROM Employee)

Answer: This query executes successfully, and return all those employees who supervisw some other employees.

30. Which of the followings can appear in PSM procedure definition?

Answer: All(Statement/Parameter/Variables)

31. Choose the incorrect statement. UML supports the multi-way relationships. UML differentiates aggregations and compositions. Classes are set of objects, with states and behaviors.

Answer: UML supports the multi-way relationships

32. What will be returned when the following SQL statement is executed?

Select sale\_no, count(\*) as num\_orders

From Orders

Group By sale\_no;

Answer: A listing of each sale as well as a number of orders that he or she has made

33. Select the well-formed XML. Choose one.

Answer: <MovieData><Movie title><Year></Year></Movie></MovieData>

34. In a tree structure, a/an \_\_\_ has no arc out.

Answer: leaf node.

35. Suppose an updatable view DepartmentOnHCMC is associated to Department relation. Which of the followings is TRUE?

Answer: All(2 Update / Dropping)

36. Which of the followings is not applied while converting subclass structures to relations using E/R style conversion?

Answer: None (Construct relation for entity/for each sub/Do no construct for ISA)

37. Which of the followings has the same meaning as domain-based constraint?

Answer: Attribute-base constraint

38. Which of following statements can be used in PSM procedure definition?

Answer: All(Loop/Assign/Branching)

39. Suppose two relations R(A:string, B:int) and S(C:int, D:int). Which of the following is valid?

Answer: ALTER TABLE R ADD CONSTRAINT RCHK CHECK(A IN ('Yes','No'));

40. Which of the following is NOT a standard aggregation operator?

Answer: GROUP

41. Which of the following relational operations are considerably more effecient if we use the bag model?

Answer: Union

42. Which of the following statements is TRUE? A relation cannot be defined in terms of a negation or aggregation of itself. In SQL, a relation can be defined recursively in term of itself.

Answer: A relation cannot be defined in terms of a negation or aggregation of itself.

43. Suppose the relation WorkOn(project, employee, hoursperweek). Consider the following constraint:

Nobody can work more than 3 project at once.

How can we implement this constraint in SQLServer 2005?

Answer: We create a trigger to refuse all modification violating this constraint.

44. Choose the false statement about the decomposition into 3NF?

Answer: The decomposition has the dependency presevation property.

45. Suppose two relations tblEmployee(EmployeeID, EmployeeName, Salary, memberOf(\*tblDepartment)) and tblDepartment(DepartmentID, DepartmentName, managerIs(\*tblEmployee)).

What does the managerIs(\*tblEmployee) mean?

Answer: A managerIS is... type is a reference to a single tuple...

46. Which of the following is a disadvantage of using index?

Answer: An index make update operations become more complex

47. An attribute A is called the key of relation R if \_\_\_\_

Answer: All(It function/its closure/there are no two..)

48. Suppose an updatable view ParamountMovies is associated with Movies relation. Choose a right answer

Answer: an update on ParamountMovies is translated into Movies

49. Choose a right answer. Privileges cannot be granted on a view. When a privilege is granted, it cannot be revoked. An authorization ID may

Answer: An authorization ID maybe granted privileges from others or may give its privileges to others.

50. Which of the followings is not applied for the union of two relations which are bags?

Answer: We eleminate duplicated tuples.

51. Select the right statement. We can create constraint on a tuple as a whole. We can create constraint on a singel attribute. Every constraint has a name. If we don't define constraint.

Answer: All (2 We can create constraint / Every constraint )

52. Which of the followings is TRUE about E/R model?

Answer: All(3 Attribute associated/very simple type/cannot have the same)

53. Which of the following logical expressions is FALSE?

Answer: None (2 UNKNOWN OR TRUE / UNKNOWN AND TRUE)

54. Which of the followings is definition of tables in SQL?

Answer: Tables are the kind of relation that exist in the database....

55. Choose a right answer. A SQL environment is a DBMS running at some installation. Within a SQL environment are two special kind of processes: SQL clients and SQL servers.

Answer: All(2 SQL environment/ Within a SQL environment)

56. Each web server process can invoke one or more \_\_\_ to handle the request

Answer: Application server processes.

57. Which of the following statement is not DML?

Answer: CREATE

58. Which of the followings is not the extended operator of relational algebra?

Answer: Duplicate-elimination operator

59. Suppose two relation R(A,B) and S(C,D,E), where A, B, C, D, E are integer attributes.

Which of the following queries is invalid?

Answer: INSERT INTO R(A,B) SELECT \* FROM S;

60. WHich of the following is TRUE? Well-formed XML document must begin with a declaration that it is XML. Whatever tags can be used in XML document.

Answer: All(2 Well-formed XML/Whatever tags)

/

DAtA modeling mAy be the most importAnt pArt of the systems development process becAuse:

Answer: DAtA chArActeristics Are importAnt in the design of progrAms And other systems components

A business rule:

Answer: All of the Above: Define, Assert, Controls

Business rules should be determined primArily by interviewing executives in the business.

Answer: FAlse

The common types of entities Are:

Answer: All: Strong, WeAk, AssociAtive

A property or chArActeristic of An entity type thAt is of interest to the orgAnizAtion is cAlled A(n):

Answer: Attribute

A relAtionship is An AssociAtion between Attributes.

Answer: FAlse

A good dAtA nAme should be:

Answer: reAdAble, unique, And repeAtAble

A multivAlued Attribute is An Attribute thAt is common to mAny entities.

Answer: FAlse

A person's nAme, birthdAy, And sociAl security number Are All exAmples of:

Answer: Attributes

A(n) \_\_\_\_\_ is the relAtionship between A weAk entity type And its owner.

Answer: identifying relAtionship

The \_\_\_\_\_ specifies the number of instAnces of one entity thAt cAn (or must) be AssociAted with eAch instAnce of Another entity.

Answer: cArdinAlity constrAint

The degree of A relAtionship is the number of entity types thAt pArticipAte in A relAtionship.

Answer: True

A ternAry relAtionship is A simultAneous relAtionship between more thAn three entity types.

Answer: FAlse

Which is NOT A bAsic construct of An E-R model?

Answer: Identifiers

An Attribute thAt cAn be cAlculAted from relAted Attribute vAlues is cAlled A \_\_\_\_\_Attribute

Answer: derived

An Attribute thAt uniquely identifies An entity, And consists of A composite Attribute is cAlled A(n):

Answer: Composite identifier

An entity thAt AssociAtes the instAnces of one or more entity types And contAins Attributes specific to the relAtionships is cAlled A(n):

Answer: AssociAtive entity

The number of entity types thAt pArticipAte in A relAtionship is cAlled the:

Answer: Degree

A relAtionship between the instAnces of A single entity type is cAlled A \_\_\_\_\_relAtionship.

Answer: UnAry

An entity type nAme should AlwAys be A singulAr noun.

Answer: True

A simultAneous relAtionship Among the instAnces of three entity types is cAlled A \_\_\_\_\_relAtionship.

Answer: ternAry

A \_\_\_\_\_ specifies the number of instAnces of one entity thAt cAn be AssociAted with eAch instAnce of Another entity.

Answer: CArdinAlity constrAint

A relAtionship where the minimum And mAximum cArdinAlity Are both one is A(n) \_\_\_\_\_ relAtionship.

Answer: MAndAtory one

A mutuAlly exclusive relAtionship is one in which:

Answer: An entity instAnce cAn pArticipAte in only one of severAl AlternAtive relAtionships

A student cAn Attend five clAsses, eAch with A different professor. EAch professor hAs 30 students. The relAtionship of students to professors is A \_\_\_\_\_ relAtionship.

Answer: MAny-to-mAny

The totAl quiz points for A student for An entire semester is A(n) \_\_\_\_\_ Attribute.

Answer: Derived

A join operAtion:

Answer: cAuses two dispArAte tAbles to be combined...

DAtA Definition lAnguAge (DDL) is used to:

Answer: declAre dAtAbAse schemAs

A dAtAbAse is An orgAnized collection of \_\_\_ relAted dAtA.

Answer: logicAlly

The relAtion dAtA model consists of which component?

Answer: All: DAtA integrity, DAtA mAnipulAtion, DAtA structure

A rule thAt CANNOT be violAte by dAtAbAse users is cAlled A:

Answer: constrAint

In the SQL lAnguAge, the\_\_\_ stAtement is usedto creAt dAtAbAse definitions

Answer: creAte tAble

Which of the following types of dAtA cAn be stored in AdAtAbAse

Answer: All: Voice, letters, numbers

Given A relAtion R(A,B,C,D) with dependencies A-->C, C->D. Which of the followings doesn't hold in R?

Answer: A->C

WhAt is the property thAt good decomposition must hAve?

Answer: All: EliminAtion of AnomAlies, RecoverAbility of informAtion, PreservAtion of dependencies

Given A relAtion R(A,B,C,D) with functionAl dependencies A->BC, C->D,D->A. Find one key of R

Answer: {A}

FunctionAl dependency is A constrAint on \_\_\_\_\_\_\_\_\_\_

Answer: Two sets of Attributes of A relAtion

One Attribute is cAlled prime if \_\_\_\_\_\_\_\_\_\_

Answer: It is A member of key

Choose the fAlse stAtement About the decomposition into BCNF?

Answer: The decomposition hAs the dependency preservAtion property

Choose A right stAtement

Answer: If X is A key, then X is A super key

The principle strAtegy to convert subclAsses to relAtions is \_\_\_\_\_\_\_\_\_

Answer: All: Follow, TreAt, Use

Choose A wrong Answer

Answer: UML offers multi-wAy relAtionships

Choose A right Answer

Answer: All: the vAlue, Entity set, RelAtionship

When we sAy one clAss hAs mAny students, And A student is A member of one clAss, we meAn thAt the multiplicity of this relAtionship from clAss entity set to student entity set is \_\_\_\_\_\_\_\_\_

Answer: One - mAny

An Attribute (or Attributes) thAt uniquely identifies eAch row in A relAtion is cAlled A/An:

Answer: primAry key

Choose A wrong stAtement

Answer: E/R model represents both the structure of dAtA And the operAtions on dAtA

The number of entity types thAt pArticipAte in A relAtionship is cAlled the :

Answer: degree

An Attribute of the relAtion R to which the ? is Applied is cAlled

Answer: Grouping Attribute

To convert A bAg to A set, we use \_\_\_\_\_\_\_\_\_ operAtor

Answer: d

Suppose R(A,B,C) is bAg, S=sA>B(R). Choose A right Answer

Answer: S hAs the sAme schemA As R, And S hAs less or equAl tuples thAn R hAs

Suppose A relAtion R(A,B,C) As A bAg, And A relAtion S=pA,B(d(R)) As A bAg, too. R hAs 4 tuples (1,2,2), (1,3,2), (1,2,2), And (1,2,3). S hAs\_\_\_\_\_\_\_\_\_\_ tuples

Answer: 3

Suppose A relAtion R(A,B) hAs 4 tuples (1,2), (2,3), (1,1), (2,4). A result of ?A,SUM(B)?SUM(R) is \_\_\_\_\_\_\_\_\_\_

Answer: A relAtion hAs 2 tuples (1,3), (2,7)

Suppose A relAtion R(A,B) And S(B,C) As A bAgs. R hAs 2 tuples (1,2),(1,4) And S hAs 3 tuples (2,3), (4,5) And (4,5). The thetA-join R ? \_R.B<S.B S hAs \_\_\_\_\_\_\_\_\_\_ tuples

Answer: 2

Choose one Answer.

Answer: This operAtion is vAlid And the result hAs three tuples

The result of ((10<NULL) OR TRUE) AND (UNKNOWN OR FALSE) is

Answer: UNKNOWN

Which of following is not pArt of DAtA MAnipulAtion LAnguAge (DML)?

Answer: CREATE stAtement

Suppose A relAtion R hAs two Attributes A And B. Choose A vAlid query

Answer: SELECT A, B, COUNT(\*) FROM R GROUP BY A, B

Choose the right stAtement

Answer: All: Sub-queries cAn AppeAr, return A single, return relAtions

Which of following condition is TRUE

Answer: (UNKNOWN OR TRUE) OR (UNKNOWN AND FALSE)

Suppose A relAtion R hAs two numeric non-null Attributes A, B. Which of the following queries do we use to count the number of tuples in R ?

Answer: COUNT(\*) COUNT(A) COUNT(B)

Suppose A relAtion S hAs three numeric Attributes A, B, And C. Choose A vAlid query

Answer: SELECT A, SUM(\*) FROM S GROUP BY A HAVING COUNT(B)<20

NULL vAlue is \_\_\_\_\_\_\_\_\_\_

Answer: All: unknown, inApplicAble, withheld

Choose A wrong Answer

Answer: Every relAtion hAs only one index

Choose A right Answer

Answer: A virtuAl view is defined by An expression like A query

Given the relAtion Movies(title, yeAr, length, genre, studioNAme).Select the right query to creAte A view with the titles And studio nAmes of All movies thAt were produced in 1980

Answer: CREATE VIEW OldMovies AS SELECT title, studioNAme FROM Movies where yeAr=1980

When A user mAkes contAct, A \_\_\_\_\_\_\_\_\_\_ response to the request, And the user becomes A client of this \_\_\_\_\_\_\_\_\_\_ process.

Answer: webserver, webserver

Function pArAmeters mAy be of mode \_\_\_\_\_\_\_\_\_\_

Answer: IN

Which of the followings is right About well-formed XML documents?

Answer: All: involve, hAve, begin

The DBMS Acts As An interfAce between whAt two components of An enterprise-clAss dAtAbAse system?

Answer: DAtAbAse ApplicAtion And the dAtAbAse

Which of the following projects illustrAtes A dAtAbAse being designed from existing dAtA?

Answer: A dAtAbAse using the Production DepArtment's spreAdsheets

Which of the following projects illustrAtes A dAtAbAse being designed As A new systems development project?

Answer: A dAtAbAse designed to produce production reports for A new Production DepArtment mAnufActuring process

Which of the following products wAs An eArly implementAtion of the relAtionAl model developed by E.F. Codd of IBM?

Answer: DB2

The following Are components of A dAtAbAse except \_\_\_\_\_\_\_\_ .

Answer: reports

An ApplicAtion where only one user Accesses the dAtAbAse At A given time is An exAmple of A(n) \_\_\_\_\_\_\_\_ .

Answer: multiuser dAtAbAse ApplicAtion

Which of the following projects illustrAtes A dAtAbAse being designed As A redesign of An existing dAtAbAse?

Answer: A dAtAbAse thAt will combine two dAtAbAses currently used by the Production DepArtment

An on-line commerciAl site such As AmAzon.com is An exAmple of A(n) \_\_\_\_\_\_\_\_ .

Answer: e-commerce dAtAbAse ApplicAtion

Which of the following products wAs the first to implement true relAtionAl AlgebrA in A PC DBMS?

Answer: R: bAse

SQL stAnds for \_\_\_\_\_\_\_\_ .

Answer: Structured Query LAnguAge

BecAuse it contAins A description of its own structure, A dAtAbAse is considered to be \_\_\_\_\_\_\_\_ .

Answer: self-describing

The following Are functions of A DBMS except \_\_\_\_\_\_\_\_ .

Answer: creAting And processing forms

Helping people keep trAck of things is the purpose of A(n) \_\_\_\_\_\_\_\_ .

Answer: dAtAbAse

Which of the following products implemented the CODASYL DBTG model?

Answer: IDMS

An Enterprise Resource PlAnning ApplicAtion is An exAmple of A(n) \_\_\_\_\_\_\_\_ .

Answer: multiuser dAtAbAse ApplicAtion

A DBMS thAt combines A DBMS And An ApplicAtion generAtor is \_\_\_\_\_\_\_\_ .

Answer: Microsoft's Access

You hAve run An SQL stAtement thAt Asked the DBMS to displAy dAtA in A tAble nAmed USER\_TABLES. The results include columns of dAtA lAbeled "TAbleNAme," "NumberOfColumns" And "PrimAryKey." You Are looking At \_\_\_\_\_\_\_\_ .

Answer: metAdAtA

Which of the following is not considered to be A bAsic element of An enterprise-clAss dAtAbAse system?

Answer: COBOL progrAms

The DBMS thAt is most difficult to use is \_\_\_\_\_\_\_\_ .

Answer: OrAcle CorporAtion's OrAcle

The relAtionAl dAtAbAse model wAs creAted by E.F. Codd.

Answer: True

A dAtAbAse is cAlled "self-describing" becAuse it contAins A description of itself

Answer: True

In A dAtAbAse, dAtA is stored in spreAdsheets which hAve rows And columns.

Answer: FAlse

A dAtAbAse hAs dAtA And relAtionships.

Answer: True

DAtAbAses creAte informAtion.

Answer: True

One of the reAsons why OODBMSs hAve not been widely used for business informAtion systems is thAt OOP is obsolete.

Answer: FAlse

A dAtAbAse AdministrAtor designs, constructs, And mAnAges the dAtAbAses.

Answer: True

In An enterprise-clAss dAtAbAse system, business users interAct directly with dAtAbAse ApplicAtions, which directly Access the dAtAbAse dAtA.

Answer: FAlse

ApplicAtions Are progrAms thAt interAct directly with the dAtAbAse.

Answer: FAlse

The purpose of A dAtAbAse is to help people stop using spreAdsheets.

Answer: FAlse

Microsoft Access is An enterprise-clAss dAtAbAse product.

Answer: FAlse

Structured Query LAnguAge (SQL) is An internAtionAlly recognized stAndArd lAnguAge thAt is understood by All commerciAl dAtAbAse mAnAgement system products.

Answer: True

The XML fAmily of stAndArds is very importAnt in dAtAbAse processing todAy.

Answer: True

A dAtAbAse has A built-in cApAbility to creAte, process And Administer itself.

Answer: FAlse

Enterprise Resource PlAnning (ERP) is An exAmple of A single user dAtAbAse.

Answer: FAlse

Prior to 1970, All data was stored in separAte files, which were mostly stored on reels of magnetic tape.

Answer: True

A database design may be bAsed on existing dAta.

Answer: True

The DBMS rAnked As being the "eAsiest to use" in the text is OrAcle CorporAtion's OrAcle.

Answer: FAlse

DatAbase Applications Are seldom intended for use by A single user.

Answer: FAlse

The DBMS rAnked As being the "hArdest to use" in the text is Microsoft's SQL Server.

Answer: FAlse

In An Enterprise-clAss dAtAbAse system, business users interAct directly with dAtAbAse ApplicAtions thAt interAct with the DBMS, which directly Accesses the dAtAbAse dAtA.

Answer: True

Suppose R And S Are bAgs, And t is the tuple thAt AppeArs n-times And m-times in R And S (n=0, m=0).How mAny time dose t tupe AppeAr in

Answer: In {R^S}, t AppeArs (n + m) times, In {R U S}, t AppeArs MIN(n, m) times, In {R \ S}, t AppeArs MAX(0, n - m) times

Arithmetic operAtors on NULL vAlues will return

Answer: A NULL vAlue

CompArisons with NULL vAlues will return

Answer: UNKNOWN

Choose the fAlse stAtement About the decomposition in to BCNF

Answer: the relAtions of the...

\_\_\_is the frAmework under which dAtA Ay exist And SQL operAtions on dAtA mAy beexecuted

Answer: SQL environment

which of the following is the extended operAtor of relAtionAl AlgebrA?

Answer: All: Outerijoins, Grouping, DuplicAte

Which stAtement is true regArding subqueries?

Answer: All: The NOT, = ANY, the IN

In ODL, if we hAve A mAy- one relAtionship from clAss C to clAss D,then\_\_

Answer: InclAss C, the type of the relAtionship is just D, while the type of the relAtionship in D is SET

which of the following stAtement is invAlid?

Answer: if A->B, B->->C hold in relAtion R, then A=>Vholds,too

which of the following is Applied in PSM

Answer: All: Cursors, queries, Subqueries

Which of the followings mAy be A pArt of well-formed XML document?

Answer: All

sUPPOSE THE REALTION sAle(ITEM, CUSTOMER, quAntity, price) with more thAn billion tupeles from the lArge dAtAbAse. We try to provideA rApid rAndom And sequentiAl Access to this tAble by\_\_\_

Answer: CreAting some indicies

Which of the followings is chArActeristic of UML?

Answer: ClAsses Are sets of objects, with sAtAte And behAviors

Suppose R(A,B) And S(B,C) Are bAgs. R hAs two tuples (1,2), (2,30. S hAsthree tuples (1,3), (3,2), (2,1). EvAlue the following relAtionAl expression: gA,SUM(C)-> SUMC(R\*S), where \* denotes the nAturAl join

Answer: the result relAtion hAs two tuples (1,1) And (2,2)

Which of the followings is belong to DML?

Answer: GRANT

The responsibility of DAtAbAse mAnAgement system is\_\_

Answer: All: Allowusers, Support, Give

Which of the following DAtAlog rules is unsAfe?

Answer: Q(x,y,z)<- U(x,y) AND T(x,y) AND NOT T(x,z)

Which of the following stAtement is used to delete All dAtA from tAble EMPLOYEES except it's schemA?

Answer: DELETE FROM EMPLOYEES

Which of the followings hAs the sAme meAning As Attribute-bAsed constrAint?

Answer: Entity-bAsed constrAint

When we define An Attribute A As PRIMARY KEY of relAtion R, then\_\_

Answer: All: tuple must be not, there Are no two, no more primAry key...

An Attributesin\_\_\_Are only integers And chArActer strings

Answer: ODL

how cAn we convert the subclAss structure to relAtions?

Answer: Contruct A single relAtion for whole hierArchy ofenitity sets

Choose A right Answer

Answer: A virtuAl view is defined by An expression like A query

The most useful index on A relAtion is An index on its key. This is becAuse:

Answer: Queries in which A vAlue for the key is ...

Which of the following is not A benefit of using views?

Answer: None of the others

Suppose An updAtAble view FoxMovies is AssociAted with Movies relAtion. Choose A right Answer

Answer: All: An updAte on Movies is trAnslAted into FoxMovies vA ngc lAi,Drop FoxMovies does not Affect Movies

A clustering index is \_\_\_\_\_\_

Answer: An index thAt is defined on non-key field(s) And there cAn be more thAn one record corresponding to A vAlue of the indexing field

Choose the invAlid stAtement

Answer: Views Allow eAch user to hAve his or her own view of the dAtAbAse, which creAtes dAtA redundAncy

Suppose A relAtion R(A,B,C) where All Attributes Are numeric. Choose A vAlid query to creAte An updAtAble view

Answer: None of the others

Which of the fllowing stAtement is true About User Defined Type?

Answer: All: An UDT, the 0-0, mAny relAtions

Which of the following is true About SQL session?

Answer: the sessions lAsts As long As the conection thAt creAted it

Which of the followings is fAlse About weAk entity set?

Answer: THe key for A weAk

WhAt do we sAy A bout views?

Answer: All: droping : A bAse tAble, A view, views dont exist

Which of the followings is right About Attributes on XML documents?

Answer: DTD is A grAmmAr

Which of the followings evolves to informAtion integrAtion?

Answer: None of other

Which of the followings wAs the first ever used for dAtA model?

Answer: File system

An A Attribute is cAlled the key of relAtion R if\_\_\_

Answer: All: it functionAlly, Its closure, there Are no

Where cAnnot we use PSM procedures

Answer: None of the others

View is\_\_\_\_

Answer: None of the others

\_\_\_mAnAge the interAtions with the user

Answer: the webserver-tier processes

Which of the followings is fAlse About E/R model?

Answer: Attributes Are very simply types...

Which of the following stAtement is true?

Answer: A recursion in DAtAlog cAn be expressed in relAtionAl AlgebrA

Which of the followings doesn't tAke the key's condition 'no two tuples Aree on All Attributes f key'?

Answer: Foregn key

Suppose relAtion R(A,B,C,D), And set of FD's S={A->B, B->D,AD->C}. find one key of R

Answer: {A}

Which of the followings is not true About XML documents?

Answer: XML dAtA is presented in one or more document

Suppose relAtion R(A,B,C,D,E) And se of FDs A->D, AD->C, C->BE. Compute {A}+

Answer: {A,B,C,D,E}

dAtAbAse users cAn connect to dAtAbAse mAnAgement system As

Answer: All: DAtAbAse designer, DAtAbAse AdinistrAtor, DAtAbAse end-user

The DBMS acts as an interface between what two components of an enterprise-class database system?

A. Database application and the database

B. Data and the database

C. The user and the database application

D. Database application and SQL

Answer: A. Database application and the database

Which of the following projects illustrates a database being designed from existing data?

A. A database using the Production Department's spreadsheets

B. A database designed to produce production reports for a new Production Department manufacturing process

C. A database that will combine two databases currently used by the Production Department

D. None of the above is correct.

Answer: A. A database using the Production Department's spreadsheets

Which of the following projects illustrates a database being designed as a new systems development project?

A. A database using the Production Department's spreadsheets

B. A database designed to produce production reports for a new Production Department manufacturing process

C. A database that will combine two databases currently used by the Production Department

D. None of the above is correct.

Answer: B. A database designed to produce production reports for a new Production Department manufacturing process

Which of the following products was an early implementation of the relational model developed by E.F. Codd of IBM?

A. IDMS

B. DB2

C. dBase-II

D. R:base

Answer: B. DB2

The following are components of a database except \_\_\_\_\_\_\_\_ .

A. user data

B. metadata

C. reports

D. indexes

Answer: C. reports

An application where only one user accesses the database at a given time is an example of a(n) \_\_\_\_\_\_\_\_ .

A. single-user database application

B. multiuser database application

C. e-commerce database application

D. data mining database application

Answer: A. single-user database application

Which of the following projects illustrates a database being designed as a redesign of an existing database?

A. A database using the Production Department's spreadsheets

B. A database designed to produce production reports for a new Production Department manufacturing process

C. A database that will combine two databases currently used by the Production Department

D. None of the above is correct.

Answer: C. A database that will combine two databases currently used by the Production Department

An on-line commercial site such as Amazon.com is an example of a(n) \_\_\_\_\_\_\_\_ .

A. single-user database application

B. multiuser database application

C. e-commerce database application

D. data mining database application

Answer: C. e-commerce database application

Which of the following products was the first to implement true relational algebra in a PC DBMS?

A. IDMS

B. Oracle

C. dBase-II

D. R:base

Answer: D. R:base

SQL stands for \_\_\_\_\_\_\_\_ .

A. Structured Query Language

B. Sequential Query Language

C. Structured Question Language

D. Sequential Question Language

Answer: A. Structured Query Language

Because it contains a description of its own structure, a database is considered to be \_\_\_\_\_\_\_\_ .

A. described

B. metadata compatible

C. self-describing

D. an application program

Answer: C. self-describing

The following are functions of a DBMS except \_\_\_\_\_\_\_\_ .

A. creating and processing forms

B. creating databases

C. processing data

D. administrating databases

Answer: A. creating and processing forms

Helping people keep track of things is the purpose of a(n) \_\_\_\_\_\_\_\_ .

A. database

B. table

C. instance

D. relationship

Answer: A. database

Which of the following products implemented the CODASYL DBTG model?

A. IDMS

B. DB2

C. dBase-II

D. R:base

Answer: A. IDMS

An Enterprise Resource Planning application is an example of a(n) \_\_\_\_\_\_\_\_ .

A. single-user database application

B. multiuser database application

C. e-commerce database application

D. data mining database application

Answer: B. multiuser database application

A DBMS that combines a DBMS and an application generator is \_\_\_\_\_\_\_\_ .

A. Microsoft's SQL Server

B. Microsoft's Access

C. IBM's DB2

D. Oracle Corporation's Oracle

Answer: B. Microsoft's Access

You have run an SQL statement that asked the DBMS to display data in a table named USER\_TABLES. The results include columns of data labeled "TableName," "NumberOfColumns" and "PrimaryKey." You are looking at \_\_\_\_\_\_\_\_ .

A. user data.

B. metadata

C. A report

D. indexes

Answer: B. metadata

Which of the following is not considered to be a basic element of an enterprise-class database system?

A. Users

B. Database applications

C. DBMS

D. COBOL programs

Answer: D. COBOL programs

The DBMS that is most difficult to use is \_\_\_\_\_\_\_\_ .

A. Microsoft's SQL Server

B. Microsoft's Access

C. IBM's DB2

D. Oracle Corporation's Oracle

Answer: D. Oracle Corporation's Oracle

The relational database model was created by E.F. Codd.

A. True

B. False

Answer: A. True

A database is called "self-describing" because it contains a description of itself.

A. True

B. False

Answer: A. True

In a database, data is stored in spreadsheets which have rows and columns.

A. True

B. False

Answer: B. False

A database has data and relationships.

A. True B. False

Answer: A. True

One of the reasons why OODBMSs have not been widely used for business information systems is that OOP is obsolete.

A. True

B. False

Answer: B. False

One of the reasons why OODBMSs have not been widely used for business information systems is that OOP is obsolete.

A. True

B. False

Answer: B. False

In an enterprise-class database system, business users interact directly with database applications, which directly access the database data.

A. True

B. False

Answer: B. False

Applications are programs that interact directly with the database.

A. True

B. False

Answer: B. False

The purpose of a database is to help people stop using spreadsheets.

A. True

B. False

Answer: B. False

Microsoft Access is an enterprise-class database product.

A. True

B. False

Answer: B. False

Structured Query Language (SQL) is an internationally recognized standard language that is understood by all commercial database management system products.

A. True

B. False

Answer & Explanation

Answer: A. True

The XML family of standards is very important in database processing today.

A. True B. False

Answer & Explanation

Answer: A. True

A database has a built-in capability to create, process and administer itself.

A. True B. False

Answer & Explanation

Answer: B. False

Enterprise Resource Planning (ERP) is an example of a single user database.

A. True B. False

Answer & Explanation

Answer: B. False

Prior to 1970, all data was stored in separate files, which were mostly stored on reels of magnetic tape.

A. True B. False

Answer & Explanation

Answer: A. True

A database design may be based on existing data.

A. True B. False

Answer & Explanation

Answer: A. True

The DBMS ranked as being the "easiest to use" in the text is Oracle Corporation's Oracle.

A. True B. False

Answer & Explanation

Answer: B. False

Database applications are seldom intended for use by a single user.

A. True B. False

Answer & Explanation

Answer: B. False

The DBMS ranked as being the "hardest to use" in the text is Microsoft's SQL Server.

A. True B. False

Answer & Explanation

Answer: B. False

In an Enterprise-class database system, business users interact directly with database applications that interact with the DBMS, which directly accesses the database data.

A. True B. False

Answer & Explanation

Answer: A. True

1.

Which of the following languages is used to define the schema of the database?

DCL

Answer: DDL

DML

None of these

The DDL (Data Definition Language) is used to define the schema of the database and relations between entities.

2.

A group of associated fields is called a \_\_\_\_\_\_\_.

field

Answer: record

table

attribute

Each record contains values for the corresponding attributes. The values of the attributes for a record are interrelated. For example, different cars have different values for the same specifications (length, color, engine capacity, etc.).

3.

The security features of the database are set up by the \_\_\_\_\_\_\_.

Online Users

Answer: Database Administrator

Application Programmer

Naive Users

The Database Administrator has the total control of the database and is responsible for the setting up and maintaining the database.

4.

The DML is used for:

a) Creating tables

b) Retrieving data

c) Deleting users

d) Inserting data

e) Deleting data

Answer: b) Retrieving data d) Inserting data e) Deleting data

b,c,d

None of these

All of these

The DML (Data Manipulation Language) enables us to access and operate upon the data in the database.

5.

Which of the following are the roles of the Database Administrator:

a) Managing security issues

b) Storage structure definition

c) Develop application programs

d) Take backups of the database

a

a,b,c

Answer: a) Managing security issues b) Storage structure definition d) Take backups of the database

All of these

The Database Administrator has the total control of the database and is responsible for the setting up and maintaining the database.

6.

Which language is used to permit or prohibit access to a table?

Answer: DCL

DDL

DML

All of these

The DDL is used to design the schema of the database, the DML to operate upon the data and DCL is used to control the access to the database.

7.

Which language is used to define the integrity constraints?

Answer: DDL

DCL

DML

None of these

The DDL is used to design the schema of the database, the DML to operate upon the data and DCL is used to control the access to the database.

8.

The relationship between data is defined in the \_\_\_\_\_\_\_.

view level

Answer: logical level

physical level

The logical level of abstraction defines the type of data that is stored in the database and the relationship between them.

9.

The database oriented approach \_\_\_\_\_\_\_ the redundancy of data compared to the file oriented approach.

increases

Answer: reduces

In the database oriented approach, we store the common data in one table and access it from the required tables. Thus the same data is not stored at multiple places.

10.

The database oriented approach does not support multiple views of the same data.

Answer: True

False

The database oriented approach supports multiple views of the same data. For example, a clerk may only be able to see his details, whereas the manager can view the details of all the clerks working under him.

1.

Which company has developed the hierarchical model?

Answer: IBM

Sun Microsystems

Microsoft

Oracle

The hierarchical model was developed by IBM in 1968. It represents data in the form of trees.

2.

In Relational Model, rows are referred to as \_\_\_\_\_\_\_ and columns are referred to as \_\_\_\_\_\_\_.

attributes, tuples

nodes, connectors

connectors, nodes

Answer: tuples, attributes

A table consists of a number of rows (records/tuples) and columns (attributes).

3.

In the Relational Model, each \_\_\_\_\_\_\_ contains values for the \_\_\_\_\_\_\_.

entity, domains

attribute, tuples

Answer: tuple, attributes

relation, entities

In the Relational Model, each table consists of a number of tuples (rows) that contain the vales for attributes (columns).

4.

In the hierarchical model the relationship between records is expressed as \_\_\_\_\_\_\_.

unique key for each record

pointers or links

Answer: parent-child

Since the hierarchical model follows the tree structure, the parent node has the links to its child nodes.

5.

In the hierarchical database, the \_\_\_\_\_\_\_ can be located using the hashing function.

child nodes

primary key

Answer: root

None of these

In the hierarchical database, the hashing function is used to locate the root.

6.

In the Relational Model, the number of columns in a table is termed as \_\_\_\_\_\_\_.

cardinality

Answer: degree

domain

None of these

In the Relational Model, the degree of the table denotes the number of columns.

7.

In the Relational Model, the number of rows in a table is termed as \_\_\_\_\_\_\_.

Answer: cardinality

degree

domain

None of these

In the Relational Model, the degree of the table denotes the number of columns.

8.

The domain in the relational model is said to be atomic if the elements of the domain consist of \_\_\_\_\_\_\_ units.

redundant

distinct

Answer: indivisible

divisible

A domain in the relational model is said to be atomic is it consists of indivisible units. For example, name is not atomic since it can be divided into first name and last name.

9.

Which data model organizes the data in the form of tables and relations?

Answer: Relational Model

Hierarchical Model

Network Model

The Relational Model, organizes data in the form of independent tables (consisting of rows and columns) that are related to each other.

10.

Which structure is the hierarchical model based on?

Answer: Tree

Graph

Linked List

None of these

The hierarchical model is like a tree structure where the nodes represent the records and the branches of the tree represent the fields.

1.

SQL is a record level language.

True

Answer: False

SQL is a set level language as it operates upon a set of records. Languages that operate on one record at a time are known as record level languages.

2.

Which type of SQL environment provides more flexibility in the event of any change in database object names?

Embedded

Real - time

Answer: Dynamic

PL

In Embedded SQL, the SQL statements are embedded in the program and in Dynamic SQL, the SQL statements are created dynamically. Thus, if the names of the database objects change, it is easier to change the dynamic SQL statements as compared to the embedded SQL statements.

3.

If our program generate SQL statements on-the-fly and sends it to the database as a text file, the SQL environment in use is known as \_\_\_\_\_\_\_ SQL.

PL

Answer: Dynamic

Real - time

Embedded

In Dynamic SQL, the SQL statements are not embedded in the program but are created dynamically.

4.

The size of SQL data types differ across platforms.

True

Answer: False

SQL data types are the same across platforms. For example a INTEGER will occupy 4 bytes on both a Windows and a Linux platform.

5.

If we write a program in a programming language and switch to SQL when we require to use the database, then the SQL environment in use is know as \_\_\_\_\_\_\_ SQL.

Real - time

PL

Answer: Embedded

Dynamic

Through Embedded SQL, we can create programs that access the database through SQL statements embedded in it.

6.

SQL is platform independent.

Answer: True

False

An SQL statement written on a Windows platform gives the same output on a Linux platform. Thus, SQL statements are platform independent however not necessarily database vendor independent.

7.

SQL is used for:

Answer: creating, managing and deleting tables and manage the relationships among the stored date. & generating queries, organizing, managing and retrieving data stored in a database. & maintaining data integrity and coordinate data sharing.

None of the above

SQL is used to perform various operations on the data in the database like creating, modifying & deleting tables, maintaining data integrity and retrieving the data.

8.

SQL stands for \_\_\_\_\_\_\_.

Answer: Structured Query Language

Structural Query Language

Structured Question Language

Systematic Query Language

SQL stands for Structured Query Language.

9.

SQL is a \_\_\_\_\_\_\_ language.

Answer: non-procedural

procedural

object-oriented

For the RDBMS, an SQL program is just a single statement and is executed as a whole.

10.

SQL statements can be executed without a DBMS.

True

Answer: False

SQL statements cannot be executed without a DBMS.

1.

What are the two types of tables that can be created in a RDBMS? Add Question to Review List

Static and Dynamic

Local and Global

Answer: Permanent and Temporary

Permanent and Temporary tables can be created in a RDBMS. The data in a permanent table persists after the session expires however the data in a temporary table is available only in the session that populated it. Temporary tables are generally used to store large intermediate calculations.

2.

What are the type of temporary tables that can be created in a RDBMS? Add Question to Review List

Persistent and Non-Persistent

No sub-types of temporary tables exist

Answer: Local and Global

Static and Dynamic

Global temporary tables can be accessed by all the programs in that session. However, the program that created the local temporary table has exclusive access to it.

3.

The ON COMMIT clause can be applied to \_\_\_\_\_\_\_ tables. Add Question to Review List

permanent

Answer: temporary

both temporary and permanent

The ON COMMIT clause on temporary tables specifies that the records in the table are deleted when the transaction completes.

4.

Which of the following are valid column constraints:

A. NULL

B. DISTINCT

C. CHECK

D. FOREIGN KEY

Add Question to Review List

A

C

Answer: CHECK & FOREIGN KEY

All of the above

NOT NULL, UNIQUE, PRIMARY KEY, FOREIGN KEY, REFERENCES and CHECK are the valid column keys.

5.

Which of the following are valid table constraints:

A. PRIMARY KEY

B. UNIQUE

C. CHECK

D. FOREIGN KEY Add Question to Review List

A and D

B and C

A, C and D

Answer: All of the above

UNIQUE, CHECK, PRIMARY KEY and FORIEGN KEY are the valid table constraints.

6.

Table constraints can be applied to individual columns and groups of columns. Add Question to Review List

Answer: True

False

Table constraints can be applied to individual columns and groups of columns.

7.

Which of the following are valid referential integrity constraint optional clauses for ON DELETE:

A. NO ACTION

B. CASCADE

C. SET NULL

D. SET DEFAULT Add Question to Review List

A and B

Answer: NO ACTION & CASCADE & SET NULL)

A, B and D

All of the above

NO ACTION, CASCADE and SET NULL are the valid referential integrity optional clauses for ON DELETE.

8.

Which of the following are valid referential integrity constraint optional clauses for ON UPDATE:

A. NO ACTION

B. CASCADE

C. SET NULL

D. SET DEFAULT Add Question to Review List

A and B

A, B and D

A, B and C

Answer: All of the above

NO ACTION, CASCADE, SET NULL and SET DEFAULT are the valid referential integrity constraint optional clauses for ON UPDATE.

9.

Which referential integrity constraint optional clause performs the same changes to the foreign key as were made to the parent? Add Question to Review List

ACTION

Answer: CASCADE

SAME ACTION

None of the above

The CASCADE reverential integrity constraint optional clause performs the same changes to the foreign key as were made to the parent.

10.

A DEFERRABLE constraint is checked after every DDL statement. Add Question to Review List

True

Answer: False

DEFERRABLE constraints are checked after every DELETE, UPDATE and INSERT statement or after a transaction.

1.

You can add a row using SQL in a database with which of the following?

A. ADD

B. CREATE

C. INSERT

D. MAKE

Answer & Explanation

Answer: C. INSERT

Explanation:

No answer description available for this question. Let us discuss.

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2.

The command to remove rows from a table 'CUSTOMER' is:

A. REMOVE FROM CUSTOMER ...

B. DROP FROM CUSTOMER ...

C. DELETE FROM CUSTOMER WHERE ...

D. UPDATE FROM CUSTOMER ...

Answer & Explanation

Answer: C. DELETE FROM CUSTOMER WHERE ...

Explanation:

No answer description available for this question. Let us discuss.

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3.

The SQL WHERE clause:

A. limits the column data that are returned.

B. limits the row data are returned.

C. Both A and B are correct.

D. Neither A nor B are correct.

Answer & Explanation

Answer: B. limits the row data are returned.

Explanation:

No answer description available for this question. Let us discuss.

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4.

Which of the following is the original purpose of SQL?

A. To specify the syntax and semantics of SQL data definition language

B. To specify the syntax and semantics of SQL manipulation language

C. To define the data structures

D. All of the above.

Answer & Explanation

Answer: To specify the syntax and semantics of SQL data definition language & To specify the syntax and semantics of SQL manipulation language & To define the data structures

Explanation:

No answer description available for this question. Let us discuss.

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5.

The wildcard in a WHERE clause is useful when?

A. An exact match is necessary in a SELECT statement.

B. An exact match is not possible in a SELECT statement.

C. An exact match is necessary in a CREATE statement.

D. An exact match is not possible in a CREATE statement.

Answer & Explanation

Answer: B. An exact match is not possible in a SELECT statement.

Explanation:

No answer description available for this question. Let us discuss.

6.

A view is which of the following?

A. A virtual table that can be accessed via SQL commands

B. A virtual table that cannot be accessed via SQL commands

C. A base table that can be accessed via SQL commands

D. A base table that cannot be accessed via SQL commands

Answer & Explanation

Answer: A. A virtual table that can be accessed via SQL commands

Explanation:

No answer description available for this question. Let us discuss.

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7.

The command to eliminate a table from a database is:

A. REMOVE TABLE CUSTOMER;

B. DROP TABLE CUSTOMER;

C. DELETE TABLE CUSTOMER;

D. UPDATE TABLE CUSTOMER;

Answer & Explanation

Answer: B. DROP TABLE CUSTOMER;

Explanation:

No answer description available for this question. Let us discuss.

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8.

ON UPDATE CASCADE ensures which of the following?

A. Normalization

B. Data Integrity

C. Materialized Views

D. All of the above.

Answer & Explanation

Answer: B. Data Integrity

Explanation:

No answer description available for this question. Let us discuss.

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9.

SQL data definition commands make up a(n) \_\_\_\_\_\_\_\_ .

A. DDL B. DML

C. HTML D. XML

Answer & Explanation

Answer: A. DDL

Explanation:

No answer description available for this question. Let us discuss.

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10.

Which of the following is valid SQL for an Index?

A. CREATE INDEX ID;

B. CHANGE INDEX ID;

C. ADD INDEX ID;

D. REMOVE INDEX ID;

Answer & Explanation

Answer: A. CREATE INDEX ID;

Explanation:

No answer description available for this question. Let us discuss.

11.

The SQL keyword(s) \_\_\_\_\_\_\_\_ is used with wildcards.

A. LIKE only

B. IN only

C. NOT IN only

D. IN and NOT IN

Answer & Explanation

Answer: A. LIKE only

Explanation:

No answer description available for this question. Let us discuss.

Workspace

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1) What does SQL stand for?

a) Strong Question Language

b) Structured Question Language

Answer: c) Structured Query Language

2) Which SQL statement is used to extract data from a database?

a) GET

b) OPEN

c) EXTRACT

Answer: d) SELECT

e) QUERY

3) Which SQL statement is used to update data in a database?

Answer: a) UPDATE

b) SAVE AS

c) MODIFY

d) SAVE

4) Which SQL statement is used to delete data from a database?

a) TRUNCATE

Answer: b) DELETE

c) REMOVE

5) Which SQL statement is used to insert new data in a database?

a) ADD RECORD

b) ADD INTO

Answer: c) INSERT

d) ADD NEW

6) With SQL, how do you select a column named "FirstName" from a table named "Persons"?

a) EXTRACT FirstName FROM Persons

Answer: b) SELECT FirstName FROM Persons

c) SELECT Persons.FirstName

7) With SQL, how do you select all the columns from a table named "Persons"?

a) SELECT [all] FROM Persons

b) SELECT All Persons

c) SELECT \*.Persons

Answer: d) SELECT \* FROM Persons

8) With SQL, how do you select all the records from a table named "Persons" where the value of the column "FirstName" is "Peter"?

a) SELECT [all] FROM Persons WHERE FirstName='Peter'

b) SELECT \* FROM Persons WHERE FirstName LIKE 'Peter'

c) SELECT [all] FROM Persons WHERE FirstName LIKE 'Peter'

Answer: d) SELECT \* FROM Persons WHERE FirstName='Peter'

9) With SQL, how do you select all the records from a table named "Persons" where the value of the column "FirstName" starts with an "a"?

a) SELECT \* FROM Persons WHERE FirstName='%a%'

b) SELECT \* FROM Persons WHERE FirstName LIKE '%a'

c) SELECT \* FROM Persons WHERE FirstName='a'

Answer: d) SELECT \* FROM Persons WHERE FirstName LIKE 'a%'

e) SELECT \* FROM Persons WHERE FirstName='a'"

10) The OR operator displays a record if ANY conditions listed are true. The AND operator displays a record if ALL of the conditions listed are true

Answer: a) True

b) False

11) With SQL, how do you select all the records from a table named "Persons" where the "FirstName" is "Peter" and the "LastName" is "Jackson"?

a) SELECT \* FROM Persons WHERE FirstName LIKE 'Peter' AND LastName LIKE 'Jackson'

Answer: b) SELECT \* FROM Persons WHERE FirstName='Peter' AND LastName='Jackson'

c) SELECT FirstName='Peter', LastName='Jackson' FROM Persons

12) With SQL, how do you select all the records from a table named "Persons" where the "LastName" is alphabetically between (and including) "Hansen" and "Pettersen"?

a) SELECT LastName>'Hansen' AND LastName<'Pettersen' FROM Persons

Answer: b) SELECT \* FROM Persons WHERE LastName BETWEEN 'Hansen' AND 'Pettersen'

c) SELECT \* FROM Persons WHERE LastName>'Hansen' AND LastName<'Pettersen'

13) Which SQL statement is used to return only different values?

a) SELECT UNIQUE

b) SELECT INDENTITY

c) SELECT DIFFERENT

Answer: d) SELECT DISTINCT

14) Which SQL keyword is used to sort the result-set?

a) SORT BY

b) ORDER

Answer: c) ORDER BY

d) SORT

15) With SQL, how can you return all the records from a table named "Persons" sorted descending by "FirstName"?

a) SELECT \* FROM Persons SORT BY 'FirstName' DESC

Answer: b) SELECT \* FROM Persons ORDER BY FirstName DESC

c) SELECT \* FROM Persons ORDER FirstName DESC

d) SELECT \* FROM Persons SORT 'FirstName' DESC

16) With SQL, how can you insert a new record into the "Persons" table?

Answer: a) INSERT INTO Persons VALUES ('Jimmy', 'Jackson')

b) INSERT ('Jimmy', 'Jackson') INTO Persons

c) INSERT VALUES ('Jimmy', 'Jackson') INTO Persons

17) With SQL, how can you insert "Olsen" as the "LastName" in the "Persons" table?

Answer: a) INSERT INTO Persons (LastName) VALUES ('Olsen')

b) INSERT ('Olsen') INTO Persons (LastName)

c) INSERT INTO Persons ('Olsen') INTO LastName

18) How can you change "Hansen" into "Nilsen" in the "LastName" column in the Persons table?

a) UPDATE Persons SET LastName='Hansen' INTO LastName='Nilsen'

Answer: b) UPDATE Persons SET LastName='Nilsen' WHERE LastName='Hansen'

c) MODIFY Persons SET LastName='Hansen' INTO LastName='Nilsen

d) MODIFY Persons SET LastName='Nilsen' WHERE LastName='Hansen'

19) With SQL, how can you delete the records where the "FirstName" is "Peter" in the Persons Table?

Answer: a) DELETE FROM Persons WHERE FirstName = 'Peter'

b) DELETE ROW FirstName='Peter' FROM Persons

c) DELETE FirstName='Peter' FROM Persons

20) With SQL, how can you return the number of records in the "Persons" table?

a) SELECT COLUMNS() FROM Persons

Answer: b) SELECT COUNT(\*) FROM Persons

c) SELECT COLUMNS(\*) FROM Persons

d) SELECT COUNT() FROM Persons

21) Given an employees table as follows: empid name managerid a1 bob NULL b1 jim a1 B2 tom a1 What value will select count(\*) from employees return?

a) 1

b) 2

Answer: c) 3

d) none of the above

22) The result of a SELECT statement can contain duplicate rows.

Answer: a) True

b) False

23) Sometimes the expression "select count(\*)" will return fewer rows than the expression "select count(value)".

a) True

Answer: b) False

24) What type of lock will deny users any access to a table?

a) EXPLICIT

b) IMPLICIT

Answer: c) EXCLUSIVE

d) SHARED

e) READ ONLY

25) Which of the following is the correct SQL statement to use to remove rows from a table?

a) DROP

b) REMOVE ROW

Answer: c) DELETE

d) DELETE ROW

26) The only way to join two tables is by using standard, ANSI syntax.

a) True

Answer: b) False

27) A NULL value is treated as a blank or 0.

a) True

Answer: b) False

28) The left outer join is one type of outer join. Another one is the.

a) right

b) full

c) right outer

d) full outer

Answer: e) all of the above

12.

Which of the following is the correct order of keywords for SQL SELECT statements?

A. SELECT, FROM, WHERE

B. FROM, WHERE, SELECT

C. WHERE, FROM,SELECT

D. SELECT,WHERE,FROM

Answer & Explanation

Answer: SELECT, FROM, WHERE

Explanation:

No answer description available for this question. Let us discuss.

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13.

A subquery in an SQL SELECT statement is enclosed in:

A. braces -- {...}.

B. CAPITAL LETTERS.

C. parenthesis -- (...) .

D. brackets -- [...].

Answer & Explanation

Answer: parenthesis -- (...) .

Explanation:

No answer description available for this question. Let us discuss.

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14.

The result of a SQL SELECT statement is a(n) \_\_\_\_\_\_\_\_ .

A. report B. form

C. file D. table

Answer & Explanation

Answer: table

Explanation:

No answer description available for this question. Let us discuss.

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15.

Which of the following are the five built-in functions provided by SQL?

A. COUNT, SUM, AVG, MAX, MIN

B. SUM, AVG, MIN, MAX, MULT

C. SUM, AVG, MULT, DIV, MIN

D. SUM, AVG, MIN, MAX, NAME

Answer & Explanation

Answer: COUNT, SUM, AVG, MAX, MIN

Explanation:

No answer description available for this question. Let us discuss.

16.

In an SQL SELECT statement querying a single table, according to the SQL-92 standard the asterisk (\*) means that:

A. all columns of the table are to be returned.

B. all records meeting the full criteria are to be returned.

C. all records with even partial criteria met are to be returned.

D. None of the above is correct.

Answer & Explanation

Answer: all columns of the table are to be returned.

Explanation:

No answer description available for this question. Let us discuss.

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17.

The HAVING clause does which of the following?

A. Acts like a WHERE clause but is used for groups rather than rows.

B. Acts like a WHERE clause but is used for rows rather than columns.

C. Acts like a WHERE clause but is used for columns rather than groups.

D. Acts EXACTLY like a WHERE clause.

Answer & Explanation

Answer: Acts like a WHERE clause but is used for groups rather than rows.

Explanation:

No answer description available for this question. Let us discuss.

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18.

The SQL -92 wildcards are \_\_\_\_ and \_\_\_\_ .

A. asterisk (\*); percent sign (%)

B. percent sign (%); underscore (\_)

C. underscore(\_); question mark (?)

D. question mark (?); asterisk (\*)

Answer & Explanation

Answer: percent sign (%); underscore (\_)

Explanation:

No answer description available for this question. Let us discuss.

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19.

To remove duplicate rows from the results of an SQL SELECT statement, the \_\_\_\_\_\_\_\_ qualifier specified must be included.

A. ONLY B. UNIQUE

C. DISTINCT D. SINGLE

Answer & Explanation

Answer: DISTINCT

Explanation:

No answer description available for this question. Let us discuss.

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20.

The benefits of a standard relational language include which of the following?

A. Reduced training costs

B. Increased dependence on a single vendor

C. Applications are not needed.

D. All of the above.

Answer & Explanation

Answer: Reduced training costs

Explanation:

No answer description available for this question. Let us discuss.

21.

Which of the following do you need to consider when you make a table in SQL?

A. Data types

B. Primary keys

C. Default values

D. All of the above.

Answer & Explanation

Answer: All of the above.

Explanation:

No answer description available for this question. Let us discuss.

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22.

SQL query and modification commands make up a(n) \_\_\_\_\_\_\_\_ .

A. DDL B. DML

C. HTML D. XML

Answer & Explanation

Answer: DML

Explanation:

No answer description available for this question. Let us discuss.

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23.

When three or more AND and OR conditions are combined, it is easier to use the SQL keyword(s):

A. LIKE only.

B. IN only.

C. NOT IN only.

D. Both IN and NOT IN.

Answer & Explanation

Answer: Both IN and NOT IN.

Explanation:

No answer description available for this question. Let us discuss.

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24.

The Microsoft Access wildcards are \_\_\_\_ and \_\_\_\_ .

A. asterisk (\*); percent sign (%)

B. percent sign (%); underscore (\_)

C. underscore(\_); question mark (?)

D. question mark (?); asterisk (\*)

Answer & Explanation

Answer: question mark (?); asterisk (\*)

Explanation:

No answer description available for this question. Let us discuss.

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25.

Find the SQL statement below that is equal to the following: SELECT NAME FROM CUSTOMER WHERE STATE = 'VA';

A. SELECT NAME IN CUSTOMER WHERE STATE IN ('VA');

B. SELECT NAME IN CUSTOMER WHERE STATE = 'VA';

C. SELECT NAME IN CUSTOMER WHERE STATE = 'V';

D. SELECT NAME FROM CUSTOMER WHERE STATE IN ('VA');

Answer & Explanation

Answer: SELECT NAME FROM CUSTOMER WHERE STATE IN ('VA');

Explanation:

No answer description available for this question. Let us discuss.

26.

Which one of the following sorts rows in SQL?

A. SORT BY

B. ALIGN BY

C. ORDER BY

D. GROUP BY

Answer & Explanation

Answer: ORDER BY

Explanation:

No answer description available for this question. Let us discuss.

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27.

To sort the results of a query use:

A. SORT BY.

B. GROUP BY.

C. ORDER BY.

D. None of the above is correct.

Answer & Explanation

Answer: ORDER BY.

Explanation:

No answer description available for this question. Let us discuss.

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28.

To define what columns should be displayed in an SQL SELECT statement:

A. use FROM to name the source table(s) and list the columns to be shown after SELECT.

B. use USING to name the source table(s) and list the columns to be shown after SELECT.

C. use SELECT to name the source table(s) and list the columns to be shown after USING.

D. use USING to name the source table(s) and list the columns to be shown after WHERE.

Answer & Explanation

Answer: use FROM to name the source table(s) and list the columns to be shown after SELECT.

Explanation:

No answer description available for this question. Let us discuss.

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29.

SQL can be used to:

A. create database structures only.

B. query database data only.

C. modify database data only.

D. All of the above can be done by SQL.

Answer & Explanation

Answer: All of the above can be done by SQL.

Explanation:

No answer description available for this question. Let us discuss.

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30.

The SQL statement that queries or reads data from a table is \_\_\_\_\_\_\_\_ .

A. SELECT

B. READ

C. QUERY

D. None of the above is correct.

Answer & Explanation

Answer: SELECT

Explanation:

No answer description available for this question. Let us discuss.

31.

The SQL keyword BETWEEN is used:

A. for ranges.

B. to limit the columns displayed.

C. as a wildcard.

D. None of the above is correct.

Answer & Explanation

Answer: for ranges.

Explanation:

No answer description available for this question. Let us discuss.

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32.

A subquery in an SQL SELECT statement:

A. can only be used with two tables.

B. can always be duplicated by a join.

C. has a distinct form that cannot be duplicated by a join.

D. cannot have its results sorted using ORDER BY.

Answer & Explanation

Answer: has a distinct form that cannot be duplicated by a join.

Explanation:

No answer description available for this question. Let us discuss.

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33.

\_\_\_\_\_\_\_\_ was adopted as a national standard by ANSI in 1992.

A. Oracle

B. SQL

C. Microsoft Access

D. DBase

Answer & Explanation

Answer: SQL

Explanation:

No answer description available for this question. Let us discuss.

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34.

SQL is:

A. a programming language.

B. an operating system.

C. a data sublanguage.

D. a DBMS.

Answer & Explanation

Answer: a data sublanguage.

Explanation:

No answer description available for this question. Let us discuss.

1.

The condition in a WHERE clause can refer to only one value.

A. True B. False

Answer & Explanation

Answer: False

Explanation:

No answer description available for this question. Let us discuss.

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2.

The ADD command is used to enter one row of data or to add multiple rows as a result of a query.

A. True B. False

Answer & Explanation

Answer: False

Explanation:

No answer description available for this question. Let us discuss.

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3.

SQL provides the AS keyword, which can be used to assign meaningful column names to the results of queries using the SQL built-in functions.

A. True B. False

Answer & Explanation

Answer: True

Explanation:

No answer description available for this question. Let us discuss.

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4.

The SELECT command, with its various clauses, allows users to query the data contained in the tables and ask many different questions or ad hoc queries.

A. True B. False

Answer & Explanation

Answer: True

Explanation:

No answer description available for this question. Let us discuss.

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5.

A SELECT statement within another SELECT statement and enclosed in square brackets ([...]) is called a subquery.

A. True B. False

Answer & Explanation

Answer: False

Explanation:

No answer description available for this question. Let us discuss.

6.

The rows of the result relation produced by a SELECT statement can be sorted, but only by one column.

A. True B. False

Answer & Explanation

Answer: False

Explanation:

No answer description available for this question. Let us discuss.

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7.

There is an equivalent join expression that can be substituted for all subquery expressions.

A. True B. False

Answer & Explanation

Answer: False

Explanation:

No answer description available for this question. Let us discuss.

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8.

A dynamic view is one whose contents materialize when referenced.

A. True B. False

Answer & Explanation

Answer: True

Explanation:

No answer description available for this question. Let us discuss.

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9.

SQL is a programming language.

A. True B. False

Answer & Explanation

Answer: False

Explanation:

No answer description available for this question. Let us discuss.

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10.

SELECT DISTINCT is used if a user wishes to see duplicate columns in a query.

A. True B. False

Answer & Explanation

Answer: False

Explanation:

No answer description available for this question. Let us discuss.

11.

Indexes can usually be created for both primary and secondary keys.

A. True B. False

Answer & Explanation

Answer: True

Explanation:

No answer description available for this question. Let us discuss.

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12.

Each index consumes extra storage space and also requires overhead maintenance time whenever indexed data change value.

A. True B. False

Answer & Explanation

Answer: True

Explanation:

No answer description available for this question. Let us discuss.

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13.

The HAVING clause acts like a WHERE clause, but it identifies groups that meet a criterion, rather than rows.

A. True B. False

Answer & Explanation

Answer: True

Explanation:

No answer description available for this question. Let us discuss.

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14.

SQL is a data sublanguage.

A. True B. False

Answer & Explanation

Answer: True

Explanation:

No answer description available for this question. Let us discuss.

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15.

The qualifier DISTINCT must be used in an SQL statement when we want to eliminate duplicate rows.

A. True B. False

Answer & Explanation

Answer: True

Explanation:

No answer description available for this question. Let us discuss.

16.

DISTINCT and its counterpart, ALL, can be used more than once in a SELECT statement.

A. True B. False

Answer & Explanation

Answer: False

Explanation:

No answer description available for this question. Let us discuss.

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17.

The result of every SQL query is a table.

A. True B. False

Answer & Explanation

Answer: True

Explanation:

No answer description available for this question. Let us discuss.

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18.

COUNT(field\_name) tallies only those rows that contain a value; it ignores all null values.

A. True B. False

Answer & Explanation

Answer: True

Explanation:

No answer description available for this question. Let us discuss.

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19.

SUM, AVG, MIN, and MAX can only be used with numeric columns.

A. True B. False

Answer & Explanation

Answer: False

Explanation:

No answer description available for this question. Let us discuss.

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20.

Most companies keep at least two versions of any database they are using.

A. True B. False

Answer & Explanation

Answer: True

Explanation:

No answer description available for this question. Let us discuss.

21.

The format SELECT-FROM-WHERE is the fundamental framework of SQL SELECT statements.

A. True B. False

Answer & Explanation

Answer: True

Explanation:

No answer description available for this question. Let us discuss.

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22.

Indexes may be created or dropped at any time.

A. True B. False

Answer & Explanation

Answer: True

Explanation:

No answer description available for this question. Let us discuss.

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23.

The SQL statement: SELECT Number1 + Number 2 AS Total FROM NUMBER\_TABLE; adds two numbers from each row together and lists the results in a column named Total.

A. True B. False

Answer & Explanation

Answer: True

Explanation:

No answer description available for this question. Let us discuss.

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24.

ORDER BY can be combined with the SELECT statements.

A. True B. False

Answer & Explanation

Answer: True

Explanation:

No answer description available for this question. Let us discuss.

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25.

Data manipulation language (DML) commands are used to define a database, including creating, altering, and dropping tables and establishing constraints.

A. True B. False

Answer & Explanation

Answer: False

Explanation:

No answer description available for this question. Let us discuss.

26.

Scalar aggregate are multiple values returned from an SQL query that includes an aggregate function.

A. True B. False

Answer & Explanation

Answer: False

Explanation:

No answer description available for this question. Let us discuss.

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27.

The keyword LIKE can be used in a WHERE clause to refer to a range of values.

A. True B. False

Answer & Explanation

Answer: False

Explanation:

No answer description available for this question. Let us discuss.

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28.

The SQL statement: SELECT Name, COUNT(\*) FROM NAME\_TABLE; counts the number of name rows and displays this total in a table with a single row and a single column.

A. True B. False

Answer & Explanation

Answer: False

Explanation:

No answer description available for this question. Let us discuss.

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29.

The SQL keyword GROUP BY instructs the DBMS to group together those rows that have the same value in a column.

A. True B. False

Answer & Explanation

Answer: True

Explanation:

No answer description available for this question. Let us discuss.

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30.

The wildcard asterisk (\*) is the SQL-92 standard for indicating "any sequence of characters."

A. True B. False

Answer & Explanation

Answer: False

Explanation:

No answer description available for this question. Let us discuss.

31.

Microsoft Access has become ubiquitous, and being able to program in Access is a critical skill.

A. True B. False

Answer & Explanation

Answer: False

Explanation:

No answer description available for this question. Let us discuss.

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32.

SQL provides five built-in functions: COUNT, SUM, AVG, MAX, MIN.

A. True B. False

Answer & Explanation

Answer: True

Explanation:

No answer description available for this question. Let us discuss.

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33.

The keyword BETWEEN can be used in a WHERE clause to refer to a range of values.

A. True B. False

Answer & Explanation

Answer: True

Explanation:

No answer description available for this question. Let us discuss.

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34.

To establish a range of values, < and > can be used.

A. True B. False

Answer & Explanation

Answer: True

Explanation:

No answer description available for this question. Let us discuss.

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35.

If you are going to use a combination of three or more AND and OR conditions, it is often easier to use the NOT and NOT IN operators.

A. True B. False

Answer & Explanation

Answer: True

Explanation:

No answer description available for this question. Let us discuss.

What does the abbreviation DBMS stand for?

Answer: Database Management System.

2.

Incorrect The advantages of Standard Query Language (SQL) include which of the following in relation to GIS databases?

Answers: Incorrect

3.

Incorrect Which of the following are characteristics of an RDBMS?

Answers: Incorrect

4.

What is a 'tuple'?

Answer: A row or record in a database table.

5.

Incorrect Which of the following are issues to be considered by users of large corporate GIS databases?

Answers: Incorrect.

6.

Incorrect Which of the following are features of the object-oriented approach to databases?

Answers: Incorrect

7.

Correct Redundancy is minimised with a computer based database approach.

Answer: Correct

8.

Incorrect The relational database model is based on concepts proposed in the 1960s and 1970s.

Answer:Incorrect

True

9.

Incorrect A row in a database can also be called a domain.

Answer:Incorrect

False

10.

Incorrect A first step in database creation should be needs analysis.

Answer:Incorrect

True

11.

Incorrect In entity attribute modelling a many to many relationship is represented by M:M.

Answer:Incorrect

False

12.

Incorrect In a networked web based GIS all communications must go through an internet map server.

Answer:Incorrect

False

13.

Incorrect In an OO database approach 'object = attributes + behaviour'.

Answer: Incorrect

False

14.

Correct In an OO database objects may inherit some or all of the characteristics of other objects.

Answer: Correct

1) What does SQL stand for?

Answer: c) Structured Query Language

2) Which SQL statement is used to extract data from a database?

Answer: d) SELECT

3) Which SQL statement is used to update data in a database?

Answer: a) UPDATE

4) Which SQL statement is used to delete data from a database?

Answer: b) DELETE

5) Which SQL statement is used to insert new data in a database?

Answer: c) INSERT

6) With SQL, how do you select a column named "FirstName" from a table named "Persons"?

Answer: b) SELECT FirstName FROM Persons

7) With SQL, how do you select all the columns from a table named "Persons"?

Answer: d) SELECT \* FROM Persons

8) With SQL, how do you select all the records from a table named "Persons" where the value of the column "FirstName" is "Peter"?

Answer: d) SELECT \* FROM Persons WHERE FirstName='Peter'

9) With SQL, how do you select all the records from a table named "Persons" where the value of the column "FirstName" starts with an "a"?

Answer: d) SELECT \* FROM Persons WHERE FirstName LIKE 'a%'

10) The OR operator displays a record if ANY conditions listed are true. The AND operator displays a record if ALL of the conditions listed are true

Answer: a) True

11) With SQL, how do you select all the records from a table named "Persons" where the "FirstName" is "Peter" and the "LastName" is "Jackson"?

Answer: b) SELECT \* FROM Persons WHERE FirstName='Peter' AND LastName='Jackson'

12) With SQL, how do you select all the records from a table named "Persons" where the "LastName" is alphabetically between (and including) "Hansen" and "Pettersen"?

Answer: b) SELECT \* FROM Persons WHERE LastName BETWEEN 'Hansen' AND 'Pettersen'

13) Which SQL statement is used to return only different values?

Answer: d) SELECT DISTINCT

14) Which SQL keyword is used to sort the result-set?

Answer: c) ORDER BY

15) With SQL, how can you return all the records from a table named "Persons" sorted descending by "FirstName"?

Answer: b) SELECT \* FROM Persons ORDER BY FirstName DESC

16) With SQL, how can you insert a new record into the "Persons" table?

Answer: a) INSERT INTO Persons VALUES ('Jimmy', 'Jackson')

17) With SQL, how can you insert "Olsen" as the "LastName" in the "Persons" table?

Answer: a) INSERT INTO Persons (LastName) VALUES ('Olsen')

18) How can you change "Hansen" into "Nilsen" in the "LastName" column in the Persons table?

Answer: b) UPDATE Persons SET LastName='Nilsen' WHERE LastName='Hansen'

19) With SQL, how can you delete the records where the "FirstName" is "Peter" in the Persons Table?

Answer: a) DELETE FROM Persons WHERE FirstName = 'Peter'

20) With SQL, how can you return the number of records in the "Persons" table?

Answer: b) SELECT COUNT(\*) FROM Persons

21) Given an employees table as follows: empid name managerid a1 bob NULL b1 jim a1 B2 tom a1 What value will select count(\*) from employees return?

Answer: c) 3

22) The result of a SELECT statement can contain duplicate rows.

Answer: a) True

23) Sometimes the expression "select count(\*)" will return fewer rows than the expression "select count(value)".

Answer: b) False

24) What type of lock will deny users any access to a table?

Answer: c) EXCLUSIVE

25) Which of the following is the correct SQL statement to use to remove rows from a table?

Answer: c) DELETE

26) The only way to join two tables is by using standard, ANSI syntax.

Answer: b) False

27) A NULL value is treated as a blank or 0.

Answer: b) False

28) The left outer join is one type of outer join. Another one is the.

Answer: e) all of the above

1. If you know the structure and properties of data you can:

Answer: D. all of the above

2. An important task when defining metadata is to:

Answer: D. more than one of the above

3. Which of the following is an invalid XML tag?

Answer: B. <stud ID>

4. Which of the following is a valid XML tag?

Answer: D. <DOB>

5. The first tag in an XML document is known as a(n):

Answer: C. root element

6. An XML comment looks like:

Answer: A. <!--Updated 09-26-07-->

7. In database terminology, a set of entities refers to:

Answer: C. table

8. The kind of information stored in a field in a database is described by the:

Answer: C. data type

9. A Project operation will:

Answer: B. return only unique rows and merge duplicate rows

10. The Test in a Select command is used to:

Answer: C. include rows in a new table

11. Databases store data just once:

Answer: A. in order to avoid data redundancy

1. \_\_\_\_\_\_ is information describing other information.

Answer: Metadata

2. XML is \_\_\_\_\_\_, that is, the tags create the structure of the data.

Answer: self-describing

4. XML attributes must be enclosed in \_\_\_\_\_\_.

Answer: quotes

5. A(n) \_\_\_\_\_\_ is a group of related items in an XML document.

Answer: entity

7. \_\_\_\_\_\_ describe the relationships among the different kinds of data.

Answer: Relational databases

8. A(n) \_\_\_\_\_\_ is used to ensure that all entities in a database are unique.

Answer: primary key

9. Data that cannot be decomposed into smaller parts is considered \_\_\_\_\_\_.

Answer: atomic

10. A(n) \_\_\_\_\_\_ is a collection of table definitions that give the name of the table, list of the attributes and their data types and identifies the primary key.

Answer: database

11. A(n) \_\_\_\_\_\_ is a specification using the five operations and join that define a table from other tables.

Answer: query

12. A(n) \_\_\_\_\_\_ between two tables means that there is a corresponding row in one table for every row in the other table.

Answer: one-to-one relationship

The data dictionary is

Answer: different rom an index prodcedure

users usually retrieve information from a database using

Answer: SQL

What is embedded SQL

Answer: SQL statements used in a program written in some other programming language, usually prefixed by some symbols recognixable by preprocessor

relationship attends from student to class is a example of

Answer: many-to-many relationship

AN integrated collection of related data files is call a

Answer: database

What file access method allows the user to directly access records organized sequentially using an index of key fileds

Answer: indexed sequential access method

Adding new data modifyying existing data, and deleting data are the three basic operations of data

Answer: maintenance

WHich of the following keywords is NOt included is most data retrieval statements

Answer: AS

Funcition include

Answer: count, sum, avg

What is the smallest unit of data recognixed by database software

Answer: Field

Data integrity controls may include

Answer: range control, referential integrity, default values

An other name for a synonym is a

Answer: alias

all of the following are basic constructs of E-R modeling EXCEPT

Answer: identifiers

Abase table is a

Answer: table that physically exists in the databsee word key is synonymous with the word

In a multi-user database environment, t

Answer: index

/////////////////////////////////////////////////////////////////////Thanh/////////////////////////////////////////////////////////////////////////////////////////////////

--- THANH ---

The responsibility of Database management system is \_\_\_\_\_\_\_\_\_\_

Answer: Support the storage of very large amounts of data // Allow users to create new databases and specify their schemas // Give users the ability to query the data

Choose a incorrect statement

Answer: None of the others

Which of following is never used as data model?

Answer: None of the others

The popular approach to information integration is \_\_\_\_\_\_\_\_\_

Answer: Creation of datawarehouses, where information from many databases is copied periodically // Implementation of a middleware (such as data mining) that support an integrated model of data of various databases

\_\_\_\_\_\_\_\_\_\_ can define the content, the structure, the constraints, and functions or transactions against the database

Answer: Database designer

Four characteristics of transactions are \_\_\_\_\_\_\_\_\_

Answer: Atomicity, Isolation, Consistency, Durability

Which of the following tasks does the transaction process perform?

Answer: Logging // Deadlock resolution // Concurrency control

Which of the followings is not a characteristics of transactions?

Answer: Serialization // Commission // Concurrency

Data model is a notation for describing data or information. The description consists of \_\_\_\_\_\_\_\_\_\_

Answer: Structure of the data // Constraints on the data // Operations on the data

When we define an attribute A as UNIQUE KEY of the relation R, then \_\_\_\_\_\_\_\_\_\_

Answer: Tuple can have null value on the A component // There are not two tuples that have the same values on the A component

Two relation R and S are type compatible if \_\_\_\_\_\_\_\_\_\_

Answer: The domain of corresponding attributes must be compatible // They have the same number of attributes

A two-dimesion table of data is called a \_\_\_\_\_\_\_\_\_\_

Answer: Relation

Which of the following are properties of relations?

Answer: All of the others

A rule that states that each foreign key value must match a primary key value in other relation is called the \_\_\_\_\_\_\_\_\_\_

Answer: Referential integrity constraint

Referential integrity constraint says that \_\_\_\_\_\_\_\_\_\_

Answer: Each foreign key value must match a primary key value in other relation

Two relations can be union if \_\_\_\_\_\_\_\_\_\_

Answer: They are type compatible // They have the same number of attributes and the domain of corresponding attributes are compatible

Which of following statement is correct?

Answer: Every relation must have only one primary key

A constraint between two attribute sets in a relation is called \_\_\_\_\_\_\_\_\_\_

Answer: Functional dependency

Given a relation R(A,B,C,D) with functional dependencies A->B, C->D. Find one key of R.

Answer: {A,C}

Given a relation R(A,B,C,D) with functional dependencies A->C, C->D, AD->B. Which functional dependency violates BCNF condition?

Answer: C->D

Given a relation R(A,B,C,D). Which of following is trivial?

Answer: AB `rightarrow` A // AB->CD // AB-->A

Given a relation R(A,B,C,D) with functional dependencies A->B, C->D, D->B. Compute {C}+

Answer: {B,C,D}

Given a relation R(A,B,C,D) with dependencies A->B, B->->D. Which of following holds in R?

Answer: A-->B // A-->D

The normal form which is required a key attribute on the left side of functional dependencies is called \_\_\_\_\_\_\_\_\_\_

Answer: Third normal form

Given a relation R(A,B,C,D,E) with functional dependencies A->B, C->D, D->E, E->A. Compute {C}+

Answer: {C,D,E,A,B}

The number of entity sets that participate in a relationship is called the \_\_\_\_\_\_\_\_\_

Answer: Degree

A relationship between the instances of a single entity set is called \_\_\_\_\_\_\_\_\_\_

Answer: Unary

Every department has one special employee as manager, and every employee may or may not be a manger of department on which he is a member. This relationship is \_\_\_\_\_\_\_\_\_\_

Answer: One to one

To convert a many - one relationship R from entity set E to entity set F, we must \_\_\_\_\_\_\_\_\_\_

Answer: Add all R's attributes to E // Add the key attributes of F to E // Turn each entity set into a relation with the same set of attributes

Every president is the president of at least one studiob. Every president is the president of exactly one studioc. All of the othersd. Every president may not run any studio

Answer: Every president is the president of exactly one studio

In ODL, if we have a many-many relationship between classes C and D, then \_\_\_\_\_\_\_\_\_

Answer: In class C, the type of the relationship is SET< D >, and in class D the type os SET< C >

To convert a many - many relationship R from entity set E to entity set F, we must \_\_\_\_\_\_\_\_\_\_

Answer: Create two relations for E and F entity sets perspectively, and create one relation more for relationship R by adding the key attributes of E and F, and the other attributes of relationship R

Every employee can work in one or more projects and every project has a lot of worked employees. This relationship is \_\_\_\_\_\_\_\_\_\_

Answer: Many to many

In \_\_\_\_\_\_\_\_\_\_, a key is composed of attributes, some or all of which belong to another entity set

Answer: Weak entity set

Which of following Datalog rules is unsafe?

Answer: Q(x,y)<-R(x) AND S( y ) AND NOT T(x,y,z) // Q(x,y)<-R(x) AND S( z ) AND NOT T(x,y,z)

Suppose a relation R(A,B) and S(B,C) are bags. R has 2 tuples (1,3), (2,4) and S has 3 tuples (1,2), (1,2) and (4,5). The theta join R ⋈ R.B>S.B S has \_\_\_\_\_\_\_\_\_\_ tuples

Answer: 4

Suppose a relation R(A,B,C) as a bag, and a relation `S=\pi A,B( \delta( \sigma B>C(R)))` as a bag, too. R has 4 tuples (1,2,2), (1,3,2), (1,3,2), and (1,2,3). S has \_\_\_\_\_\_\_\_\_\_ tuple( s )

Answer: 1

Consider the Datalog rule P(x,y) <- Q(x,z) AND R(y,z) AND NOT Q(x,y). Q has two tuples (1,2), (1,3). R has two tuples (3,2), (2,2). What is about P?

Answer: P has no tuple

Suppose a relation R(A,B) has 5 tuples (1,2), (1,3), (3,2), (3,4), (4,2). A result of `\gamma A` , AVG(B) -> AVG(R)is \_\_\_\_\_\_\_\_\_\_

Answer: A relation has 3 tuples (1,2.5), (3,3), (4,1)

Which of following Datalog rules is safe?

Answer: Q(x,y)<-R(x,y,z) AND NOT T(y,z) AND x `<` z // Q(x,y)<-R(x,y,z) AND T(y,z) AND x `<` z

Any Create command maybe reserved by using a \_\_\_\_\_\_\_\_\_\_ command

Answer: Drop

The first in series of steps to follow when creating a table is to \_\_\_\_\_\_\_\_\_\_

Answer: Identify each attribute and its characteristics

What does the following statement do? Delete from Customer\_T where state='HI';

Answer: Deletes all records from Customer\_T where the state is equal to HI

Indexes are created in most RDBMSs to \_\_\_\_\_\_\_\_\_\_

Answer: Provide rapid random and sequential access to base-table data

What results will be produced by the following SQL query?Select sum(standard\_price) as total\_priceFrom product\_vWhere product\_type='Wood';

Answer: The total price of all products that are of type wood

What will be returned when the following SQL statement is executed?Select driver\_no, count(\*) as num\_deliveriesFrom deliveriesGroup By driver\_no;

Answer: A listing of each driver as well as a number of deliveries that he or she has made

Sub queries can appear in \_\_\_\_\_\_\_\_\_\_

Answer: WHERE clause // HAVING clause // FROM clause

Suppose two relations R(A,B,C) and S(D,E), where A, B, C, D, E are integer attributes. Which of following queries is invalid?

Answer: INSERT INTO R(A,B,C) SELECT \* FROM S; // INSERT INTO S(D,E) SELECT \* FROM R;

Suppose a schema of relation SupplierProduct is SupplierProduct(No, SupplierID, ProductType) where No is a identifier, SupplierID is an identifer of each supplier, and ProducType is a type of product which this supplier provides. What will be returned when the following SQL statement is executed?SELECT SupplierID FROM SupplierProductGROUP BY SupplierID HAVING count (\*) IN(SELECT count (distinct ProductType) FROM SupplierProduct);

Answer: A listing of supplierIDs, which provide all product types

Suppose a relation R(A,B,C) and a primary key constraint on an A attribute. Which of followings may violate this constraint?

Answer: Insert a new tuple to the relation R // Update an exist tuple on A component

Suppose a relation R(A,B,C,D) and a constraint says that in every tuple of this relation a value on D component must be equal to the total of values on other components. How can we implement this constraint?

Answer: We create a tuple-based CHECK constraint

Suppose a relation Department (DepartmentNo, DepartmentName, ManagerNo) and a relation Employee(EmployeeNo, EmployeeName, DepartmentNo). There are two references: DepartmentNo of Employee references to DepartmentNo of Department, and ManagerNo of Department references to EmployeeNo of Employee. Which of following action may violate these two constraints?

Answer: Insert a new employee // Update an exist employee on DepartmentNo // Delete an exist employee // Insert a new department // Update an exist department on ManagerNo // Delete an exist department

Which of the following queries is invalid?

Answer: CREATE TABLE Works\_On (EmployeeNo INT PRIMARY KEY,ProjectNo INT PRIMARY KEY,DayOfWorks INT); // CREATE TABLE Works\_On (EmployeeNo INT,ProjectNo INT,DayOfWorks INT,CONSTRAINT PRIMARY KEY (EmployeeNo, ProjectNo));

A named set of SQL statements that are considered when a data modification occurs are called \_\_\_\_\_\_\_\_\_\_

Answer: Triggers

Suppose we declare the following trigger:CREATE TRIGGER OnInsertMoviesBEFORE INSERT ON MoviesREFERENCINGNEW ROW As NewRowNEW TABLE As NewStuffFOR EACH ROWWHEN NewRow.Length IS NULLUPDATE NewStuff SET Lengh=100;What does this trigger do?

Answer: It replaces NULL value on the length component of the inserting movie by 100

\_\_\_\_\_\_\_\_\_\_ is a boolean value SQL expression that must be true at all time

Answer: Assertions

Suppose a relation R(A,B,C) where all attributes are numeric and we'd like to create a modifying view. Which of followings is valid?

Answer: CREATE VIEW RA AS SELECT A FROM R WHERE B=5 AND C=2;

Suppose an updatable view ResearchDepartment is associated to Department relation. Choose a right answer

Answer: Drop Department effects on ResearchDepartment // An update on ResearchDepartment is translated into Department // An update on Department is translated into ResearchDepartment

Suppose two relation R(A,B,C) and S(D,E) where all attributes are numeric. We create a materialized view T as follow:CREATE MATERIALIZED VIEW T AS SELECT A FROM R, S WHERE B=D;Which of followings effects on T materialized view?

Answer: Insert a tuple to R // Delete a tuple from S

Choose a right statement(s)

Answer: An index makes update operations become more complex // An index is a data structure used to speed access to tuples of a relation

Indexes are created in most RDBMS to \_\_\_\_\_\_\_\_\_

Answer: Provide rapid random and sequential access to base-table data

Suppose we have a relation Movies(title,year,length,genre,studioName) and an updatable view as follow:CREATE VIEW ParamountMovie2000 AS SELECT title,length,genre FROM Movies WHERE studioName='Paramount' AND year=2000;Suppose we'd like to execute the following statement:INSERT INTO ParamountMovie2000 VALUES ('Die hard',100,'sciFi');What statement is executed on Movies?

Answer: INSERT INTO Movies (title,year,length,genre,studioName) VALUES ('Die hard',NULL,100,'sciFi',NULL);

Suppose an updatable view FordMovies is associated to Movies relation. Which of the followings is correct?

Answer: Drop FoxMovies does not effect on Movies

Which of the followings is the advantage of index?

Answer: Provides rapid random and sequential access to base-table data

DBMS need to recompute a \_\_\_\_\_\_\_\_\_\_ every time one of its tables changes in any way

Answer: Materialized view

Which of following parameters must be defined in order to established an JDBC connection?

Answer: All of the others

The SQL standard library called \_\_\_\_\_\_\_\_\_\_

Answer: SQL/CLI

What does the application tier do?

Answer: Executing the business logic of the organization operating the database // Turning data from the database into a response to the request that it receives from the webservers

Choose the right statement

Answer: Sessions last as long as the connection that created it // Each session has a current catalog and a current schema within that catalog

Using \_\_\_\_\_\_\_\_\_\_ to transfer information between the database and the host-language

Answer: Shared variables

In PSM we can break out of the loop by using \_\_\_\_\_\_\_\_\_\_ statement

Answer: LEAVE ;

When a user makes contact, a \_\_\_\_\_\_\_\_\_\_ response to the request, and the user becomes a client of this \_\_\_\_\_\_\_\_\_\_ process

Answer: webserver, webserver

Which of the following statements is correct?

Answer: To access to database on any server, we must open a connection between client and server // The SQL operations that are performed while a connection is active form a session

By which way does the embedded SQL statement take place in host language?

Answer: Directly Embedded SQL // Call-Level interface

Which of privileges is needed to execute the following statement?INSERT INTO Studio(name)SELECT DISTINCT studioNameFROM MoviesWHERE studioName NOT IN (SELECT name FROM Studio);

Answer: All of the others

Suppose that Picard is granted as followed: GRANT SELECT, UPDATE(title, year) ON Movies TO Picard; Which of followings can Picard do?

Answer: SELECT \* FROM Movies WHERE year >= ALL (SELECT year FROM Movies WHERE title LIKE '%Die hard%'); // UPDATE TABLE Movies SET title='Die hard' WHERE title='Dei hard';

Suppose two relations Movies(title,year,length) and Stars(name,address (city,street), birthdate, starMovies({\*Movies})). What does the starMovies({\*Movies}) mean?

Answer: A starMovies is an attribute of Star, whose type is a set of references to tuples of schema named Movies

The keyword WITH CUBE is used in \_\_\_\_\_\_\_\_\_\_ clause

Answer: GROUP BY

Suppose Picard is an owner of a relation Movies. Which of following statement is not allowed for Picard?

Answer: Revoke privileges on Movies from DBAs so that DBAs cannot access to Movies

Choose a right statement about User Defined Type in SQL

Answer: All of the others

Suppose that Picard is granted as followed:GRANT SELECT, UPDATE(title, year) ON Movies TO Picard;GRANT SELECT, INSERT(name) ON Studios TO Picard;Which of followings can Picard do?

Answer: SELECT Movies.\* FROM Movies, Studios WHERE Movies.studioName=Studios.name; // INSERT INTO Studios (name) VALUES ('Line Cinema');

Which of privileges is needed to execute the following statement?DELETE FROM Employee WHERE DeptNo IN (SELECT DeptNo FROM Department WHERE DeptName='Research');

Answer: Answer: SELECT privilege on Department // DELETE privilege on Employee

Which of the following statements is correct?

Answer: Answer: In SQL, several relations can be defined to be mutually recursive // In SQL, a relation can be defined recursively in term of itself

With well formed XML document we \_\_\_\_\_\_\_\_\_\_

Answer: Answer: Create a semistructured database // Use whatever tag that we wishes

With valid XML document we \_\_\_\_\_\_\_\_\_\_

Answer: Answer: Involve Document Type Definition // Use predefine schema

Which of the followings is invalid (that is this document is not well formed)?

Answer: Answer: None of the others

We can construct a complex type in several ways \_\_\_\_\_\_\_\_\_\_

Answer: Answer: By using < xs:sequence > tag // By using < xs:choice > tag // By using < xs:all > tag

Which of the followings can appear in attribute declaration in XML Schema?

Answer: name // use // type

Suppose we have two elements Department and Employee. The Department element has a key named depKey on the attribute DepartmentNo. The Employee has an attribute named DepartmentNo, and we'd like to define it as a foreign key. Which of followings can we use?

Answer: < xs:keyref name="depRef" refers="depKey">< xs:selector xpath="Employee"/>< xs:field xpath="@DepartmentNo"/>< /xs:keyref>

Using valid XML document we are able to \_\_\_\_\_\_\_\_\_\_

Answer: Involve Document Type Definition

An attribute presents as \_\_\_\_\_\_\_\_\_\_ of semi structured database

Answer: Leaf node

//////////////////////////////////////////////////////////////////////Duy///////////////////////////////////////////////////////

http://www.m3cats.com/classes/dataBases/cgs2545chapter3.htm

http://www.scribd.com/doc/39362980/Final

Choose one Answer.

a. XML documents must have a root tag

Answer: b. All of the others

c. XML tags are case sensitive

d. XML elements must be properly nested

In a typical OLAP application, there is a central relation or collection of data, called \_\_\_\_\_\_

Answer: a. the fact table

b. All of the others

c. the dimension table

d. the star table

There is a way of describing XML data, how?

Answer: a. XML uses a DTD to describe the data

b. All of the others

c. XML uses a description node to describe data

d. XML uses XSL to describe data

Given relation R(A,B) that has 2 tuples (1, 2) and (3, 4); relation S(B, C, D) has 3 tuples (2, 5, 6), (4, 7, 8) and (9, 10, 11). The natural join of R and S has \_\_\_\_\_\_

Answer: a. 2 tuples (1, 2, 5, 6) and (3, 4, 7, 8)

b. 1 tuple (1, 2, 10, 11)

c. 2 tuples (1, 2, 2, 5) and (3, 4, 4, 7)

d. 2 tuples (1, 2, 3, 4) and (5, 6, 7, 8)

Suppose a schema of relation SupplierProduct is SupplierProduct(No, SupplierID, ProductType) where No is a identifier, SupplierID is an identifer of each supplier, and ProducType is a type of product which this supplier provides. What will be returned when the following SQL statement is executed? SELECT SupplierID FROM SupplierProduct GROUP BY SupplierID HAVING count (\*) IN (SELECT count (distinct ProductType) FROM SupplierProduct);

a. A listing of supplierIDs, which provide all product types

b. A listing of supplierIDs, which provide some product types

Answer: c. A listing of supplierIDs, which provide a specified number ofproduct types

d. No result, the query is invalid

Which SQL statement is used to return only different values?

Answer: a. SELECT DISTINCT

b. SELECT DIFFERENT

c. SELECT UNIQUE

We can turn the result of a query into a data cube by appending \_\_\_\_\_\_ to a group-by clause

a. WITH SUM

Answer: b. WITH CUBE

c. All of the others

d. WITH AGGREGATE

Choose a well-formed XML document

a. <?xml version="1.0"?> <to>Tove</to><from>Jani</from><heading>Reminder</heading><body>Don't forget me this weekend!</body>

Answer: b. <?xml version="1.0"?> <envelope><to>Tove</to><from>Jani</from><heading>Reminder</heading><body>Don't forget me this weekend</body></envelope>

c. <?xml version="1.0"?> <to>Tove</to><from>Jani</from><heading>Reminder</heading><body>Don't forget me this weekend!</body></end>

d. None of the others

The multiplicity of a binary relationship could be \_\_\_\_\_

a. many–to-many

b. one-to-many

Answer: c. All of the others

d. one-to-one

Choose the wrong statement

Answer: a. None of the others

b. The database tier executes queries that are requested from the application tier

c. There can be many processes in the database tier and the processes can be distributed over any machines or all be together on one

d. Since creating connections to database takes significant time, we normally keep a large number of connections open and allow application processes to share the connections

Choose the wrong statement:

Answer: a. The subclasses of a class in UML can be disjoint partial

b. The subclasses of a class in UML can be disjoint overlapping

c. The subclasses of a class in UML can be disjoint complete

Select the right statement

a. Referential integrity constraint is also called foreign key constraint

b. A foreign key constraint can be added or deleted using the 'Alter Table' command

Answer: c. All of the others

d. A foreign key in one table points to a PRIMARY KEY in another table

Select the right statement

a. Instead-of trigger is used to update the database tables associated with the view instead of updating the view directly.

b. When a trigger is defined on a view, we can use INSTEAD OF in place of BEFORE or AFTER.

Answer: c. All of the others

d. When an event awakens the instead-of trigger, the action of the trigger is done instead of the event itself

The database language that is used to query and modify the database is called \_\_\_\_\_\_\_

a. All of the others

b. Data Control Language

c. Data Definition Language

Answer: d. Data Manipulation Language

Select the right statement

Answer: a. Assertion is a boolean-valued SQL expression that must be true at all times

b. Assertion is not part of the database schema

c. Once created, an assertion cannot be dropped unless you delete the database

d. Assertion condition cannot be involved in many relations.

When a CHECK constraint associate to many tuples on one or more relations, we must create

a. Attribute-based CHECK constraint

b. Tuple-based CHECK constraint

Answer: c. Assertion

d. All of the others

e. Domain-based CHECK constraint

Choose the wrong statement

a. The existence of an index on an attribute may speed up the execution of certain queries

b. The most useful index on a relation is an index on its key.

c. None of the others

Answer: x d. An index makes update operations on a relation faster

Consider the Datalog rule H(x,y) <- S(x, y) AND x >= y AND y < 3. Relation S(x, y) has 3 tuples (2, 3), (5, 3), and (3, 3). What is about H?

a. H has 2 tuples (3, 3) and (5, 3)

b. H has a tuple (3, 3)

Answer: x c. None of the others

d. H has a tuple (5, 3)

Choose the right statement

a. Transaction is a collection of one or more operations on the database that must be executed atomically. That is, either all operations are performed or none of them is done.

b. In SQL, each statement is a transaction by itself.

Answer: c. All of the others

d. SQL allows us to group several statements into a single transaction.

Suppose a relation PROJECT(projectID, projectName, location, department, ProjectLo1(projectID, projectName, department) is an updatable view associated to PROJECT where location=1. Evaluate the following statement: INSERT INTO ProjectLo1 (projectID, projectName, department) VALUES (200,'ERP1.0',1);

a. The query is executed, there is new tuple (200,'ERP1.0',1) on ProjectLo1, and new tuple (200,'ERP1.0',1,1) on Project

b. The query is executed, there is no new tuple on ProjectLo1, and new tuple (200,'ERP1.0',null,1) on Project

c. The query is executed, there is new tuple (200,'ERP1.0',1) on ProjectLo1, and new tuple (200,'ERP1.0',null,1) on Project

Answer: x d. The query is executed but nothing happened on Project neither on ProjectLo1

Suppose the theta join R3 :=R1?R2, where C is a condition that refers to attributes of R1 and R2. Which of the followings is correct?

a. Each tuple t1 of R1 connect with one tuple t2 of R2

Answer: x b. Each tuple t1 of R1 connect with some those tuple t2 of R2 that satisfy C

c. Each tuple t1 of R1 connect with all those tuple t2 of R2 that satifsy C

d. None of the others

Which of the following statement is NOT true:

a. Problems such as redundancy that occur when we try to cram too much into a single relation are called anomalies

b. If X is a key, then X is a super key

Answer: c. A relation can have only one key

d. A set of one or more attributes {A1, A2, ..., An} is a key for a relation R if these attributes functionally determine all other attributes of the relation R and these attributes must be minimal

Which of the following is not a valid loop construct in PSM?

a. REPEAT UNTIL END REPEAT;

b. LOOP END LOOP;

c. WHILE DO END WHILE;

Answer: x d. None of the others

Select the right statement

Answer: x a. All of the others

b. A view is a virtual table

c. Not all views are updatable

d. With updatable views, the modification is translated into an

equivalent modification on a base table

Which of the following isolation levels forbids the reading of dirty data?

a. SET TRANSACTION ISOLATION LEVEL READ UNCOMMITED;

b. SET TRANSACTION ISOLATION LEVEL SERIALIZABLE;

c. SET TRANSACTION ISOLATION LEVEL READ COMMITTED;

Answer: x d. SET TRANSACTION ISOLATION LEVEL REPEATABLE READ;

Which of the following is the correct definition of a procedure:

a. CREATE PROCEDURE () RETURNS ;

b. All of the others

Answer: ----c. CREATE PROCEDURE () ;

d. CREATE PROCEDURE () RETURNS RETURN ;

Which statement is true?

a. All XML documents must have a DTD

b. All of the others

Answer: x c. All XML elements must be properly closed

d. All XML elements must be lower case

Select the wrong statement

a. None of the others

b. An index can be created in a table to find data more quickly and efficiently

Answer: c. A table can have only one index

d. The key for index can be any attribute or set of attributes, and

need not be the key of the relation

Consider a relation with schema R(A, B, C, D) and the set of FDs: BC ->

D, D -> A, A -> B. Compute {AC}+

a. {A, C, D}

b. {A, B, C}

c. {A, C}

Answer: d. {A, B, C, D}

Consider a relation with schema R(A, B, C) and the set of FDs: A -> B, A

-> C, B -> A, B -> C, C -> A, C -> B, AB -> C, BC -> A, AC -> B, A ->

BC, B -> AC, C -> AB. Find a minimal basis for relation R.

Answer: a. A -> B, B -> C, C -> A

b. All of the others

c. AC -> B, BC -> A

d. AC -> B, BC -> A, A -> BC

Choose the wrong statement

a. A user defined type (UDT) can be the type of a table

b. None of the others

c. A user defined type can be the type of an attribute belonging to some table

Answer: d. A user defined type (UDT) cannot be the type of a table

A type of an attribute that can be used as pointer to a user-defined type (UDT) is called \_\_\_\_\_\_

a. pointer types

b. None of the others

Answer: c. reference types

d. linking types

Which of the following is not a valid privilege in SQL?

Answer: a. PROCEDURE

b. TRIGGER

c. EXECUTE

d. REFERENCES

In the three-tier architecture, the function of the application tier is to \_\_\_\_\_\_\_

Answer: a. Execute the business logic of the organization operating the database

b. All of the others

c. Perform queries and modifications at the request of the application servers

d. Manage the interactions with the user

Select the right statement

Answer: a. Updating views are allowed if query involves a single base relation and contains a candidate key of base relation

b. Updating views are allowed if query involves aggregation or grouping operations

c. Updating views are allowed if query involves multiple base relations.

d. All of the others

Question 39

Marks: 1

Given table MovieStar defined as follows: CREATE TABLE MovieStar( name CHAR(30) PRIMARY KEY, address VARCHAR(256), gender CHAR(1) CHECK (gender IN ('M','F')), birthdate DATE NOT NULL ) Which of the following query is not valid?

Answer: a. INSERT INTO MovieStar VALUES ('Tom Cruz', '123 Little Rd, LA city', 'M', NULL);

What happens if we execute this code?

Choose one Answer.

Answer: a. It's executed successfully, and prints out three values for each existing employee in tblEmployee table

b. It's executed successfully, but nothing is displayed in output

c. It's executed successfully, and the output is the simple text '<>'

d. It can not be executed successfully.

Which of the following constructs can be used in PSM?

Answer: a. LOOP ... END LOOP;

b. WHILE .... DO ...

c. DO ... WHILE ....

d. FOR ... DO ...

List all the movies that have length less than 100 and were produced by a studio name other than ‘Fox’. Select the right Answer.

a. Selection NOT(length=100) AND NOT(studioName=‘Fox’)(Movies)

Answer: x b. None of the others

c. Selection length<100 AND studioName <>‘Fox’(Movies)

d. Selection NOT(length=100 OR studioName=‘Fox’)(Movies)

Which of the following is considered anomaly?

Answer: x a. All of the others

b. information may be changed in one tuple, but may not be changed in other tuple(s)

c. if a set of values becomes empty, we may lose other information as a side effect

d. information may be repeated unnecessarily in several tuples

Suppose the relation Employee(SSN, Fullname, Salary, SupervisorSSN).Consider the following condition: NOT EXISTS (SELECT \* FROM EMPLOYEE WHERE SupervisorSSN NOT IN (SELECT SSN FROM EMPLOYEE)). Which of the following activities may violate this condition?

a. Insert new employee

b. Delete existing emplyee

Answer: x c. All of the others

d. Update existing employee

Choose the right Answer:

Answer: x a. Duplicate-elimination operator is used to convert a bag to a set

b. Duplicate-elimination operator is used to add duplicate tuple to a relation

c. None of the others

d. Duplicate-elimination operator is used to convert a set to a bag

Suppose relation R1 has n1 attributes and t1 tuples, relation R2 has n2 attributes and t2 tuples, then the Cartesian Product R3 = R1 x R2 has \_\_\_\_\_\_\_\_

a. n1\*n2 attributes, and t1\*t2 tuples

b. n1\*n2 attributes, and t1+t2 tuples

Answer: x c. n1+n2 attributes, and t1\*t2 tuples

d. n1+n2 attributes, and t1+t2 tuples

Question 49

Marks: 1

Suppose relation R(A,B,C,D) with FD's A?B, B?D, CD?A. This relation is decomposed into 3 relations S1={A,D}, S2={A,C}, S3={B,C,D}. Is this decomposition lossless join?

a. Yes

Answer: x b. No

Which is not a correct name for an XML element?

a. &ltNote>

b. &lt1dollar>

Answer: xc. All of the others

d. &lthav1>

The degree of a relationship is \_\_\_\_\_\_

a. The number of binary relationships

b. The number of attributes in a relation

Answer: -c. The number of entities involved with the relationship

d. The number of tuples in a relation

\_\_\_\_\_\_\_\_\_\_\_ is a language to access and manipulate data from a database. Even non-programmers can use it to retrieve and update data.

Answer: Structured Query Language

A person’s name, birthday, and social security number are all examples of :

Answer: attributes

A domain definition consists of the following components EXCEPT:

Answer: integrity constraints

Which of the following is software used to create, maintain, and provide controlled access to databases?

Answer: Database management system

In the SQL language, the \_\_\_\_\_\_\_\_\_\_ statement is used to create table definitions.

Answer: create table

A database is an organized collection of \_\_\_\_\_ related data.

Answer: physically

A join in which the joining condition is defined explicitly is called a ( n ):

Answer: theta join

A join operation:

Answer: causes two tables with common attribute(s) to be combined into a single table

Data Definition language (DDL) is used to:

Answer: declare database schemas

A property or characteristic of an entity type that is of interest to the organization is called a/an:

Answer: attribute

Customers, cars, and parts are examples of :

Answer: entities

Given a relation R(A,B,C,D) with dependencies A-->C, C->D. Which of the followings doesn't hold in R?

Answer: A->C

What is the property that good decomposition must have?

Answer: All of the others

Given a relation R(A,B,C,D) with functional dependencies A->BC, C->D, D->A. Find one key of R

Answer: {A}

Functional dependency is a constraint on \_\_\_\_\_\_\_\_\_\_

Answer: Two sets of attributes of a relation

One attribute is called prime if \_\_\_\_\_\_\_\_\_\_

Answer: It is a member of key

Choose the false statement about the decomposition into BCNF?

Answer: The decomposition has the dependency preservation property

Choose a right statement

Answer: If X is a key, then X is a super key

The principle strategy to convert subclasses to relations is \_\_\_\_\_\_\_\_\_

Answer: All of the others

Choose a wrong Answer

Answer: UML offers multi-way relationships

Choose a right Answer

Answer: All of the others

When we say one class has many students, and a student is a member of one class, we mean that the multiplicity of this relationship from class entity set to student entity set is \_\_\_\_\_\_\_\_\_

Answer: One - many

An attribute (or attributes) that uniquely identifies each row in a relation is called a/an:

Answer: primary key

Choose a wrong statement

Answer: E/R model represents both the structure of data and the operations on data

The number of entity types that participate in a relationship is called the :

Answer: degree

A student can attend five classes, each with a different professor. Each professor has 30 students. The relationship of students to professors is a \_\_\_\_\_\_\_\_\_ relationship.

Answer: many - to - many

An entity type whose existence depends on another entity type is called a/an \_\_\_\_\_\_\_\_\_ entity.

Answer. weak

A relationship between the instances of a single entity type is called \_\_\_\_\_\_\_\_ relationship.

Answer. unary

An attribute of the relation R to which the ? is applied is called \_\_\_\_\_\_\_\_\_\_

Answer: Grouping attribute

To convert a bag to a set, we use \_\_\_\_\_\_\_\_\_ operator

Answer: d

Suppose R(A,B,C) is bag, S=sA>B(R). Choose a right Answer

Answer: S has the same schema as R, and S has less or equal tuples than R has

Suppose a relation R(A,B,C) as a bag, and a relation S=pA,B(d(R)) as a bag, too. R has 4 tuples (1,2,2), (1,3,2), (1,2,2), and (1,2,3). S has \_\_\_\_\_\_\_\_\_\_ tuples.

Answer: 3

Suppose a relation R(A,B) has 4 tuples (1,2), (2,3), (1,1), (2,4). A result of ?A,SUM(B)?SUM(R) is \_\_\_\_\_\_\_\_\_\_

Answer: A relation has 2 tuples (1,3), (2,7)

Suppose a relation R(A,B) and S(B,C) as a bags. R has 2 tuples (1,2),(1,4) and S has 3 tuples (2,3), (4,5) and (4,5). The theta-join R ? \_R.B<S.B S has \_\_\_\_\_\_\_\_\_\_ tuples

Answer: 2

Choose one Answer: This operation is valid and the result has three tuples The result of ((10<NULL) OR TRUE) AND (UNKNOWN OR FALSE) is

Answer: UNKNOWN

Which of following is not part of Data Manipulation Language (DML)?

Answer: CREATE statement

Suppose a relation R has two attributes A and B. Choose a valid query

Answer: SELECT A, B, COUNT(\*) FROM R GROUP BY A, B

What does the strength of the relational approach to data management comes from?

Answer: the formal foundation provided by the theory of relations.

What mathematical concept is a relation based on?

Answer:set

Who first proposed the relation model?

Answer: E. F. Codd

Which is false?

Answer: Each row has a row header called an attribute.

In each row a value of a data item (or set of items) that uniquely identifies that row in the table is called \_\_\_\_.

Answer: attribute

The key that is generated by the DBMS is called \_\_\_\_ key.

Answer: artificial

The attribute \_\_\_\_ is the set of values allowed in an attribute.

Answer: domain

A subset of the Cartesian product of the domains of its attributes is relation \_\_\_\_.

Answer: state

Which is false?

Answer: The tuples are considered to be ordered.

Which is not a constraint in the relational model?

Answer: Value

Which is not condition a superkey should satisfy?

Answer: A superkey should be minimal.

Which is false?

Answer: A relation can have only one key.

Which is entity integrity?

Answer:The primary key cannot have null values.

A foreign key is

Answer: a key that references a primary key in other relation.

Which constraint involves two relations?

Answer: Referential integrity

Which of the following is the action can be taken in case of integrity violation?

Answer: All of the above

Which type of solutions to integrity violation does restrict or reject belong to?

Answer: Cancel the operation that causes the violation.

Which constraint may insert violate?

Answer: All of the above

Which constraint may delete violate?

Answer: Referential integrity

Which constraint may update violate?

Answer: All of the above

Which is not an approach to map binary 1:1 relationship types in the ER diagram to the relational schema?

Answer: Functional relation

Which is the approach to map a M:N relationship type in the ER diagram to the relational schema?

Answer: A relationship relation and two foreign keys

Which is the approach to map a n-ary relationship type in the ER diagram to the relational schema?

Answer: A relationship relation and n foreign keys

Which is the approach to map a composite attribute in the ER diagram to the relational schema?

Answer: Set of simple component attributes

Which is the approach to map a multivalued attribute in the ER diagram to the relational schema?

Answer: A relation and foreign key

What does SQL stand for?

Answer: Structured Query Language

Which is not a category of SQL?

Answer: DAL

Which is not a SQL command?

Answer: search

Which is not a DDL command?

Answer: select table

Which is not a DML command?

Answer: drop table

Which of the following is to use alter a table?

Answer: DDL

Which of the following is to use update a table?

Answer: DML

Which is a set of commands used to update and query a database?

Answer: DML

Which of the following is not a DML command

Answer: create

To delete a table, which SQL command can be used?

Answer: drop

How many attributes will be shown in the following query? select student\_no, name, department, address, email

Answer: 5

In select student\_no, score from the grade\_report table where course\_no = 'CS02208', what is course\_no = 'CS02208'?

Answer: A condition

What result set will the following query return? select item\_no from order where quantity > 20;

Answer: The item\_no of all orders that had more than 20 items.

Which can be used to select the student's number whose score is greater than or equal to 60 from the grade\_report table?

Answer: select student\_no from grade\_report where score >= 60

To eliminate duplicate rows in a query, the \_\_\_\_\_\_\_\_ qualifier is used in the SQL Select command.

Answer: distinct

The SQL command \_\_\_\_\_\_\_\_ adds one or more new columns to a table.

Answer: alter table

Indexes are created in most RDBMSs to:

Answer: provide rapid random and sequential access to base-table data.

What result set will the following query return? select item\_no, description from item where price >= 100 and price <= 200;

Answer: The item\_no and description for all items costing between 100 and 200

In an SQL statement, which of the following parts states the conditions for row selection?

Answer: where

What does the following SQL statement do? delete from customer where city = 'Hsinchu';

Answer:Deletes all records from customer where the city is equal to Hsinchu.

DDL is typically used during which phases of the development process?

Answer: Physical design

Which of the following is the wildcard operator in SQL statements?

Answer: \*

Which can be used to increase the 10% interest rate for all accounts in the account table?

Answer: update account set interest = 1.1 \* interest;

The responsibility of Database management system is

Answer: Support the storage of very large amounts of data / Give users the ability to quer? the data / Manage user accounts of computer ôn which DBMS is running

Which of following is never used as data model?

Answer: None of the others

Data model is a notation for describing data or iníormation. The description consists of

Answer: Structure of the data / operations on the data / Constraints ôn the data

When we define an attribute A as UNIQUE KEY of the relation R, then

Answer: The A attribute is considered as primary key of the relation R / Tuple can have nu li value on the A component / There are no two tuples that have the same values on the A component

Which of the following are properties of relations?

Answer: All of the others

A constraint between two attribute sets in a relation is called

Answer: Functional dependency

Given a relation R(A,B,C,D) with íunctional dependencies A->B, C->D. Find one key of R

Answer: {A,C}

A relationship between the instances of a single entity set is called

Answer: Binary

Every department has one special employee as manager, and every employee…

Answer: One to many

Any Create command maybe resetved by using a \_\_\_\_\_ command

Answer: Drop

The first in series of steps to follow when creating a table is to

Answer: Identiíy cách attribute and its characteristics

An attribute presents as \_\_\_\_\_\_\_\_\_\_ of semi structured database

Answer: Leaf node

In valid XML document we \_\_\_\_\_\_\_\_\_\_

Answer: Must declare the Document Type Definition

Which of followings is part of semistructured dataâ€™s representation

Answer: All of the others

Every node must be reachable from \_\_\_\_\_\_\_\_\_

Answer: Root node

One attribute is called prime if

Answer: It is a member of key

Which of the following statements is correct?

Answer: IDB predicates can appear either in head or in body, or both

1. Choose the false statement about the decomposition into BCNF?

Answer: The relations of the decomposition are all in BCNF

2.\_\_ is the framework under which data may exist and SQL operations on data may be executed

Answer: SQL environment

3. Which of the followings is the extended operator of relational algebra?

Answer: All of the others

4. Which statement is true regarding subqueries?

Answer: All of the others

5. In ODL, if we have a many-one relationship from class C to class D, then \_\_

Answer: ... just D,... SET

6. Which of the follwing statements is invalid?

Answer: If A->B, B-->>C,A->C holds, too

7. Which of the following is applied in PSM

Answer: All of the others

8.Which of the followings may be a part of well-formed XML document?

Answer: All of the others

9. Suppose the realtion SALE(item, customer, quantity, price) with more than billion tuples from the large database. We try to provide a rapid random and sequential access to this table by \_\_\_

Answer: Creating some indices

10. Suppose a realtion PROJECT(projectID,projectName,location,department, ProjectLo1(projectID, projectName,department) is an updatable view associated to PROJECT where location=1. Evaluate the following statement: INSERT INTO ProjectLo1(projectID,projectName,department) VALUES(200.'ERP1.0',1);

Answer: ...is no new tuple on ProjectLo1, and newtuple(200.'ERP 1.0',null, 1) on Project

11. Which of the followings is characteristic of UML?

Answer: Classes are sets of objects, with states and behaviors

12. SUppose R(A,B) and S(B,C) are bags. R has two tuples (1,2),(2,3). S has three tuples (1,3),(3,2),(2,1).Evaluate the following realtional expression: gA,SUM(C)->SUMC(R\*S), where \* denotes the natural join.

Answer: two tuple (1,1) and (2,2)

13. Which of the following statement is belong to DML?

Answer: GRANT

14.Suppose the relation Project(number,name,department,location).Evaluate the following statement: SELECT distinct p1.location FROM Project p1, Project p2 WHERE p1.location = p2.location AND p1.number<p2.number

Answer: ..there are more than one projects

15. Suppose a realtion PROJECT(projectID,projectName,location,department, ProjectLo1(projectID, projectName,department) is an updatable view associated to PROJECT where location=1. Evaluate the following statement: DELETE FROM ProjectLo1 WHERE department=1;

Answer: ..whose value on component department is 1, and value on component location is 1,too

16.Suppose the following statement: CREAT TABLE EMPLOYEE( SSN INT PRIMARY KEY, FULLNAME NVARCHAR(100), GENDER CHAR(1) DEFAULT ' UNDEFINED', AGE INT DEFAULT '18', CHECK ((GENDER = 'F' AND AGE<55) OR (GENDER='M' AND AGE <60))); Evaluate this statement in SQLSever 2005

Answer: ..successfully, newtable name as EMPLOYEE is created

17.The responsibility of Database management system is \_\_

Answer: all of the others

18. Which of following statements is allowed in SQLServer 2005

Answer: all of the others

19. which of the followings cannot be used to construct the complex type in XML Schema

Answer: By using tag

20. Suppose the relation tblEmployee(EmployeeID, EmployeeName,Salary,department).Consider the following code in SQL Sever 2005:DECLARE @EmployeeID INT,@EmployeeName NVARCHAR(50),@SALARY DECIMAL(10,0); DECLARE myCursor CURSOR FOR Select EmployeeID, EmployeeName, Salary FROM tblEMPLOYEE WHERE department =1; OPEN myCursor; FETCH NEXT FROM MyCursor INTO @EmployeeID, @EmployeeName, @Salary;IF @@FETCH\_STATUS<>0 PRINT '<<NONE>>'; WHILE @@FETCH\_STATUS=0 BEGIN PRINT @EmployeeID + ''@EmployeeName +' '+@Salary; FETCH NEXT FROM myCursor INTo @EmployeeID,@EmployeeName,@Salary;END CLOSE myCursor; DEALLOCATE myCursor; What happens if we execute this code?

Answer: ..and prints out three values for each existing employee in tblEmployee table

21. Suppose R(A,B) and S(B,C) are bags. R has two tuples (1,1),(1,2).S has three tuples (1,2),(2,1),(2,2). Evaluate the following Datalog rule: H(x) <- R(x,y) AND S(y,z) AND NOT R(x,z)

Answer: relation H has no tuples

22. Suppose the relation WorksOn(project, employee, hoursperweek).Consider the following constraint: Nobody can't work more than 40 hours a week(for all his/her projects).How can we implement this constraint in SQLServer 2005

Answer: ..a trigger to refuse all modifications violating this constraint

23. Which of the following Datalog rules is unsafe

Answer: Q(x,y,z)<-U(x,y) AND T(x,y) AND NOT T(x,z)

24. Suppose two relations Project (number, name, location, department) and Department(number, name).Evaluate the following SQL statement: SELECT D.number, D.name, P.number, P.name FROM Department D LEFT OUTER JOIN Project P ON (D.number = P.department);

Answer:. .department irrecpective of whether they control projects or not

25. Which of the following expression represents the below constraint on relation R(A:int,B:int,C:int): For every tuple in R, the value on A must be greater than the value on B or value on C must be less than the sum of value on A and value on B

Answer: sA->B OR C < A + B( R ) =

26. which of the following statement is used to delete all data from table EMPLOYEES except its schema

Answer: DELETE FROM EMPLOYEES

27. which of the followings has the same meaning as attribute-based constraint?

Ventity-based constraint

28. When we define an attribute A as PRIMARY KEY of relation R, then \_\_\_\_\_\_\_\_\_\_\_\_

Answer: all of the others

29. An attributes in\_\_\_\_\_\_\_\_\_\_\_\_ are only integers and character strings

Answer: ODL

30. How can we convert the subclass structures to relations

Answer: contruct a single relation for whole hierarchy of entity sets

31. Which of the following statements is true about the User Defined Type?

Answer: all of the others

32. Which of the followings is true about SQL session?

Answer: The session lasts as long as the connection that created it

33. Which of the followings is false about weak entity set?

Answer: The key for a weak entity set includes the keys for all supporting entity sets

34. What do we say about views?

Answer: all of the others

35. Given two relation tblEmployee(EmployeeID,EmployeeName,Salary,Department) and tblDepartment(DepartmentID, DepartmentName,Manager,AssignData).Suppose that Scott is granted as followed: GRANT SELECT, UPDATE ON tblEmployee TO Scott; GRANT SELECT(DepartmentID, Manager) ON tblDepartment to Scott;Which of the following statements is available for Scott?

Answer: all of the others

36. Which of the followings is right about attributes on XML documents?

Answer: DTD is a grammar-like set of rules to ensure that a XML document must be well-formed

37. Suppose the relation Employee(SSN, Fullname,Salary, SupervisorSSN).Consider the following condition: NOT EXISTS(SELECT\*FROM EMPLOYEE WHERE SupervisorSSN NOT IN (SELECT SSN FROM EMPLOYEE)).Which of the following activities may violate this condition?

Answer: all of the others

38. Which of the followings evolves to information integration?

Answer: None of the others

39. Which of the followings was the first ever used for data model

Answer: file System

40. Suppose the relation SALE(item, cusomter, quantity, price) with more than billion tuples from the large database. We try to provide a rapid random and sequential access to this table by\_\_\_\_\_\_\_\_\_

Answer: ..make the viewProjectNo1 unusable

41. Suppose the relation WorksOn(project, employee, hoursperweek).Consider the following query:Listing all those projects with at least 10 workers.The condition 'at least 10 worker' must be\_\_\_\_\_\_\_\_

Answer: appeared in HAVING clause as condition con classified groups

42. An A attribute is called the key of relation R if\_\_\_\_\_\_\_\_\_\_\_\_

Answer: all of the others

43. Where cannot we use PSM procedures?

Answer: None of the others

44.View is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Answer: None of the others

45. \_\_\_\_\_\_\_manage the interations with the user

Answer: The webserver-tier processes

46. Suppose the relation R(A,B,C,D) and set of FDs A->B,B->C,C->D. Suppose the projection R1=PA,C,D®

Answer: A->C, A->D

47. Suppose two relations tblEmployee(EmployeeID, EmployeeName, Salary, memberOf(\*tblDepartment)) and tblDepartment(DepartmentID,DepartmentName,managerIs(tblEmployee)).What doeas the meberOf(tblDepartment) mean?

Answer: ..is a single tuple of relation schema named tblDepartment

48. Suppose two predefined types AuthorType and BookType in UDT. We have defined two relations named Authors and Books based on these types.To present the statement 'Which authors have written which books we define the table Writes.Which of the followings is valid definition for Writes table?

Answer: W author REF(Type),book REF(BookType));

49. Which of the followings is false about E/R model?

Answer: .. very simple types, e.g integers or character strings

50. Which of the following statements is true?

Answer: A recursion in Datalog can be expressed in relational algebra

51. Suppose the relation Employee(SSN:char(12),Supervisor:char(12),Num\_Of\_Supervised:int),where Supervisor indicates that who supervises the current employee, and Num\_Of\_Supervised indicates that how many employees are supervised by this employee.Which of the followings is not allowed in SQL Server 2005

Answer: None of the others

52. Suppose the relation Employee(SSN, Fullname,Salary, SupervisorSSN).Consider the following query: SELECT\*FROM Employee WHERE NOT EXISTS(SELECT\*FROM Employee WHERE SSN=SupervisorSSN)

Answer:.. successfully, and return all those employees who don't supervise any other employee

53. Given two relation tblEmployee(EmployeeID,EmployeeName,Salary,Department).Suppose we connected to SQL with Scott authorization ID.Which of privileges must Scott have to execute the following statement: DELETE FROM tblEmployee WHERE EmployeeID IN(SELECT EmployeeID FROM tblEmployee WHERE department IS NULL)

Answer: DELETE on tblEmployee

54. which of the followings doesn't take the key's condition 'no two tuples agree on all attributes of key'?

Answer: foreign key

55. Suppose we have two elements Department and Project. The Department element has a key named depKey on the attribute DepartmentNo. The Project has an attribute named DepartmentNo, and we'd like to define it as foreign key.Which of followings can be use?

Answer: <xs:keyref name="depRef" refers="depKey"><xs:selector:xpath="Project"/><xs:field xpath="DepartmentN 0"/></xs:keyref>

56. suppose relation R(A,B,C,D,E) and set of FD's S={A->B,B->D,AD->C}.Find on the key of R

Answer: {A}

57. Suppose the relation Employee(SSN,Name,Salary,Department).Which of the followings returns all those employees with salary exceeds salary of all employees from department 1

Answer: all of the others

58. Which of the followings is not true about XML documents

Answer: XML data is presented in one or more documents

59. Suppose relation R(A,B,C,D,E) and set of FD's A->D,AD->C,C->BE.Compute {A}+

Answer: {A,D,C,B,E}

60. Database users can connect to database management system as\_\_\_\_\_\_\_\_\_\_\_\_

Answer: all of the others

61. Any Create command maybe reserved by using a \_\_\_ command

Answer: Commit

62. Suppose a relation R(A,B,C) where all attributes are numeric and we'd like to create a modifying view. Which of followings is valid?

Answer: All of the others

63. The keyword WITH CUBE is used in \_\_\_clause

Answer: GROUP BY

1. A database is an organized collection of \_\_\_\_\_ related data.

A) answer: logically

B) physically

C) not

D) badly

2. Each column in a table represent a(n) \_\_\_\_\_ of an entity.

A) description

answer: B) attribute

C) byte

D) logical element

3. A user view is:

A) what a user sees when he or she looks out the window.

B) a table or set of tables.

C) answer: a logical description of some portion of the database.

D) a procedure stored on the server.

4. A rule that canNOT be violated by database users is called a:

A) password.

B) answer: constraint.

C) program.

D) view.

5. Which of the following is software that is used to create, maintain, and provide controlled access to databases?

A) Network operating system

B) User view

C) answer:Database management system

D) Attribute

6. Organizing the database in computer disk storage is done in the \_\_\_\_\_ phase. A) logical design B) answer: physical design C) analysis D) implementation

7. \_\_\_\_\_ concentrate on determining the requirements for the database component of an

information system.

answer:A) Database analysts B) Systems analysts C) Programmers D) All of the above

8. The definition of the database that provides all the specifications to the specific database management system is contained in a(n):

A) conceptual schema. B) data definition specification. answer:C) physical schema. D) database technical system.

9. Customers, cars, and parts are examples of :

answer:A) entities.

10. Which of the following is a generic entity type that has a relationship with one or more subtypes?

answer:B) SupertypeClass

11. The property by which subtype entities possess the values of all attributes of a supertype is called: A) hierarchy reception. B) class management. answer:C) attribute inheritance.

12. Subtypes should be used when:

answer:A) there are attributes that apply to some, but not all instances of an entity type.

13. The process of defining one or more subtypes of a supertype and forming relationships is called:

answer:A) specialization.

14. An attribute (or attributes) that uniquely identifies each row in a relation is called a:

answer:C) primary key. D)

15. An attribute in a relation of a database that serves as the primary key of another relation in the same database is called a:

A) link attribute.

B) link key.

answer:C) foreign key.

D) foreign attribute.

16. A primary key that consists of more than one attribute is called a:

A) foreign key.

answer:B) composite key.

C) multivalued key.

D) cardinal key.

17. Which of the following are properties of relations?

A) Each attribute has a unique name.

B) No two rows in a relation are identical.

C) There are no multivalued attributes in a relation.

answer:D) All of the above

18. \_\_\_\_\_ is a set of commands used to update and query a database.

A) answer:DML

B) DDL

C) DCL

D) DPL

19. The first in a series of steps to follow when creating a table is to:

A) identify columns that must be unique.

B) answer:identify each attribute and its characteristics.

C) create an index.

D) identify columns that must be null.

20. In an SQL statement, which of the following parts states the conditions for row selection?

A) Select

B) From

C) answer:Where

D) Group By

When designing tables a \_\_\_\_\_ structure is preferred

Answer: simple

Each book at Henry Books is uniquely identified with a(n) \_\_\_\_\_.

Answer: code

publisher has a \_\_\_\_\_ that uniquely identifies the publisher at Henry Books.

Answer: code

SQL was developed in the mid-\_\_\_\_\_.

Answer: 1970

In a relational database each \_\_\_\_\_ should be unique.

Answer: row, record, tuple

Which of the following is the primary key of the ORDER\_LINE (ORDER\_NUM, PART\_NUM, NUM\_ORDERED, QUOTED\_PRICE) table?

Answer: ORDER\_NUM and PART\_NUM

MySQL, to move to the beginning of the current line, you need to press the \_\_\_\_\_ key(s).

Answer: ctrl + a

Which of the following commands changes the value in a column?

Answer: update

A form of database specification that indicates all the parameters for data storage that are then input to database implementation is:

Answer: physical.

A two-dimensional table of data is called a:

Answer: relation

Which of the following are properties of relations?

Answer: unique name, no two rows identical, no multivalued attributes

The entity integrity rule states that:

Answer: no primary key attribute can be null.

A relation that contains no multivalued attributes, and has nonkey attributes solely dependent on the primary key, but contains transitive dependencies is which normal form?

answer: second

Which of the following anomalies result from a transitive dependency?

Answer: insertion, modification, deletion

is not in first normal form if it has no more than one multivalued attribute.

Answer: A relation

is a functional dependency in which one or more non-key attributes are functionally dependent on part (but not all) of the primary key

Answer: A partial functional dependency

is not a functional dependency between two or more nonkey attributes.

Answer: A transversal dependency

generally arise out of transitive dependencies.

Answer: Anomalies

is the process of merging relations together

Answer: View integration

The relational data model consists of which components?

answer: Data structure, Data manipulation, Data integrity

Chapter 8 Advanced SQL

MULTIPLE CHOICE: Choose the one alternative that best completes the statement or answers the question.

1. A join operation:

A) brings together data from two different fields.

B) Answer: causes two tables with a common domain to be combined into a single table or view.

C) causes two disparate tables to be combined into a single table or view.

D) is used to combine indexing operations.

Answer: B

Level: Easy Page Ref: 358

Topic: Processing Multiple Tables

AACSB Use of Information Technology

2. A join in which the joining condition is based on equality between values in the common columns is called a(n):

A) equi-join.

B) uni-lateral join.

C) natural join.

D) Answer: both A and C.

Answer: D

Level: Easy Page Ref: 358

Topic: Processing Multiple Tables

Subtopic: Equi-join

AACSB Use of Information Technology

3. A join that is based upon equality between values in two common columns with the same name and where one duplicate column has been removed is called a(n):

A) equi-join.

B) Answer: natural join.

C) multivariate join.

D) inner join.

Answer: B

Level: Easy Page Ref: 360

Topic: Processing Multiple Tables

Subtopic: Natural Join

AACSB Use of Information Technology

4. The most commonly used form of join operation is the:

A) outer join.

B) union join.

C) equi-join.

D) Answer: natural join.

Answer: D

Level: Moderate Page Ref: 360

Topic: Processing Multiple Tables

Subtopic: Natural Join

AACSB Use of Information Technology

5. A join in which rows that do not have matching values in common columns are still included in the result table is called a(n):

A) natural join.

B) equi-join.

C) Answer: outer join.

D) union join.

Answer: C

Level: Easy Page Ref: 361

Topic: Processing Multiple Tables

Subtopic: Outer Join

AACSB Use of Information Technology

6. In which of the following situations would one have to use an outer join in order to obtain the desired results?

A) A report is desired that lists all customers who placed an order.

B) A report is desired that lists all customers and the total of their orders.

C) Answer: A report is desired that lists all customers, the total of their orders during the most recent month, and includes customers who did not place an order during the month (their total will be zero).

D) There is never a situation that requires only an outer join.

Answer: C

Level: Difficult Page Ref: 361,362

Topic: Processing Multiple Tables

Subtopic: Outer Join

AACSB Use of Information Technology, Analytic Skills

7. One major advantage of the outer join is that:

A) information is easily accessible.

B) Answer: information is not lost.

C) the query is easier to write.

D) All of the above.

Answer: B

Level: Moderate Page Ref: 362

Topic: Processing Multiple Tables

Subtopic: Outer Join

AACSB Use of Information Technology

8. A type of join implemented in SQL-1999 and by extension SQL-2003 that returns all of the data from each table that is joined is called a(n):

A) outer join.

B) inner join.

C) Answer: union join.

D) intersect join.

Answer: C

Level: Moderate Page Ref: 362

Topic: Processing Multiple Tables

Subtopic: Union Join

AACSB Use of Information Technology

9. A type of query that is placed within a WHERE or HAVING clause of another query is called a:

A) master query.

B) Answer: subquery.

C) superquery.

D) multi-query.

Answer: B

Level: Easy Page Ref: 340

Topic: Processing Multiple Tables

Subtopic: Subqueries

AACSB Use of Information Technology

10. \_\_\_\_\_\_\_\_\_ takes a value of true if a subquery returns an intermediate results table which contains one or more rows.

A) In

B) Having

C) Answer: Exists

D) Extents

Answer: C

Level: Moderate Page Ref: 367

Topic: Processing Multiple Tables

Subtopic: Subqueries

AACSB Use of Information Technology

11. In SQL, a \_\_\_\_\_\_\_\_\_\_\_\_\_ subquery is a type of subquery in which processing the inner query depends on data from the outer query.

A) Answer: correlated

B) paired

C) natural

D) inner

Answer: A

Level: Moderate Page Ref: 368

Topic: Processing Multiple Tables

Subtopic: Correlated Subqueries

AACSB Use of Information Technology

12. A \_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_ is a temporary table used in the FROM clause of an SQL query.

A) correlated subquery

B) Answer: derived table

C) view table

D) None of the above.

Answer: B

Level: Moderate Page Ref: 369

Topic: Processing Multiple Tables

Subtopic: Using Derived Tables

AACSB Use of Information Technology

13. The UNION clause is used to:

A) Answer: combine the output from multiple queries into a single result table.

B) join two tables together to form one table.

C) find all rows that do not match in two tables.

D) None of the above.

Answer: A

Level: Easy Page Ref: 369

Topic: Processing Multiple Tables

Subtopic: Combining Queries

AACSB Use of Information Technology

14. In order for two queries to be UNION-compatible, they must:

A) both have the same number of lines in their SQL statements.

B) Answer: both output compatible data types for each column and return the same number of rows.

C) both return at least one row.

D) All of the above.

Answer: B

Level: Moderate Page Ref: 369

Topic: Processing Multiple Tables

Subtopic: Combining Queries

AACSB Use of Information Technology

15. Establishing IF-THEN-ELSE logical processing within an SQL statement can be accomplished by:

A) using the if-then-else construct.

B) using the immediate if statement.

C) Answer: using the CASE keyword in a statement.

D) using a subquery.

Answer: C

Level: Moderate Page Ref: 372

Topic: Processing Multiple Tables

Subtopic: Conditional Expressions

AACSB Use of Information Technology

16. Explicit commands to manage transactions are needed when:

A) a transaction consists of just one SQL command.

B) Answer: multiple SQL commands must be run as part of a transaction.

C) autocommit is set to off.

D) None of the above.

Answer: B

Level: Difficult Page Ref: 377

Topic: Ensuring Transaction Integrity

AACSB Use of Information Technology

17. User-defined transactions can improve system performance because:

A) Answer: transactions are processed as sets, reducing system overhead.

B) transactions are mapped to SQL statements.

C) speed is improved due to query optimization.

D) All of the above.

Answer: A

Level: Moderate Page Ref: 377

Topic: Ensuring Transaction Integrity

AACSB Use of Information Technology

18. An interactive command that can be used to dynamically control a user session for appropriate integrity measures is:

A) rollback.

B) rollforward.

C) Answer: set autocommit.

D) expunge.

Answer: C

Level: Moderate Page Ref: 377

Topic: Ensuring Transaction Integrity

AACSB Use of Information Technology, Analytic Skills

19. If the DBA wishes to describe all tables in the database, which data dictionary view should be accessed in Oracle?

A) dba\_tab\_privs

B) dba\_tab\_comments

C) dba\_table\_label

D) Answer: dba\_tables

Answer: D

Level: Moderate Page Ref: 378

Topic: Data Dictionary Facilities

AACSB Use of Information Technology, Analytic Skills

20. What results would the following SQL statement produce?

select owner, table\_name

from dba\_tables

where table\_name = ‘CUSTOMER’;

A) A listing of all customers in the customer table

B) Answer: A listing of the owner of the customer table

C) A listing of the owner of the customer table as well as customers

D) An error message

Answer: B

Level: Moderate Page Ref: 379

Topic: Data Dictionary Facilities

AACSB Use of Information Technology, Analytic Skills

21. User-defined data types:

A) can be a subclass of a standard type.

B) can behave as an object.

C) can have defined functions and methods.

D) Answer: can have all of the above.

Answer: D

Level: Moderate Page Ref: 380

Topic: SQL: 200n Enhancements and Extensions to SQL

AACSB Use of Information Technology

22. A new set of analytical functions added in SQL:200n are referred to as:

A) OLAF Functions

B) MOLAP Functions

C) Average Functions

D) Answer: OLAP Functions

Answer: D

Level: Moderate Page Ref: 380

Topic: SQL: 200n Enhancements and Extensions to SQL

Subtopic: Analytical Functions

AACSB Use of Information Technology

23. RANK and DENSE-RANK are examples of:

A) Ceilings

B) Door Functions

C) Answer: Window Functions

D) Moving Functions

Answer: C

Level: Moderate Page Ref: 380

Topic: SQL: 200n Enhancements and Extensions to SQL

Subtopic: Analytical Functions

AACSB Use of Information Technology, Analytic Skills

24. All of the following are new data types added in SQL:200n EXCEPT:

A) BIGINT

B) Answer: BIT

C) MULTISET

D) XML

Answer: B

Level: Moderate Page Ref: 381

Topic: SQL: 2003 Enhancements and Extensions to SQL

Subtopic: New Data Types

AACSB Use of Information Technology, Analytic Skills

25. The MERGE command:

A) Answer: Allows one to combine the INSERT and UPDATE operations

B) Allows one to combine the INSERT and DELETE operations

C) Joins 2 tables together

D) None of the above.

Answer: A

Level: Moderate Page Ref: 382

Topic: SQL: 200n Enhancements and Extensions to SQL

Subtopic: Other Enhancements

AACSB Use of Information Technology, Analytic Skills

26. Extensions defined in SQL-99 that include the capability to create and drop modules of code stored in the database schema across user sessions are called:

A) stored procedures.

B) Answer: Persistent Stored Modules.

C) flow control modules.

D) None of the above.

Answer: B

Level: Moderate Page Ref: 383

Topic: SQL: 200n Enhancements and Extensions to SQL

Subtopic: Programming Extensions

AACSB Use of Information Technology

27. A named set of SQL statements that are considered when a data modification occurs are called:

A) stored procedures.

B) treatments.

C) Answer: triggers.

D) trapdoors.

Answer: C

Level: Easy Page Ref: 384

Topic: Triggers and Routines

AACSB Use of Information Technology

28. While triggers run automatically, \_\_\_\_\_\_\_\_\_\_\_\_\_\_ do not and have to be called.

A) trapdoors

B) Answer: routines

C) selects

D) updates

Answer: B

Level: Moderate Page Ref: 386

Topic: Triggers and Routines

AACSB Use of Information Technology

29. SQL-invoked routines can be:

A) procedures.

B) functions.

C) Answer: All of the above.

D) None of the above.

Answer: C

Level: Easy Page Ref: 386

Topic: Triggers and Routines

Subtopic: Routines

AACSB Use of Information Technology

30. All of the following are advantages of SQL-invoked routines EXCEPT:

A) flexibility.

B) efficiency.

C) sharability.

D) Answer: security.

Answer: D

Level: Moderate Page Ref: 387

Topic: Triggers and Routines

Subtopic: Routines

AACSB Use of Information Technology

31. A procedure is:

A) stored within the database.

B) given a unique name.

C) called by name.

D) Answer: All of the above.

Answer: D

Level: Moderate Page Ref: 387, 388

Topic: Triggers and Routines

Subtopic: Routines

AACSB Use of Information Technology

32. Embedded SQL consists of:

A) Answer: hard-coded SQL statements included in a program written in another language. // SQL written into a front-end application.

B) SQL encapsulated inside of other SQL statements.

C) SQL written into a front-end application.

D) SQL translated to a lower-level language.

Answer: A and C are both plausible answers.

Level: Easy Page Ref: 389

Topic: Embedded SQL and Dynamic SQL

AACSB Use of Information Technology

33. In order to embed SQL inside of another language, the \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_ statement must be placed before the SQL in the host language.

A) GET SQL

B) Answer: EXEC SQL

C) RUN SQL

D) SQL SQL

Answer: B

Level: Moderate Page Ref: 390

Topic: Embedded SQL and Dynamic SQL

AACSB Use of Information Technology, Analytic Skills

34. Dynamic SQL:

A) Answer: is used to generate appropriate SQL code on the fly, as an application is processing.

B) is quite volatile.

C) is not used widely on the Internet.

D) creates a less flexible application.

Answer: A

Level: Easy Page Ref: 390

Topic: Embedded SQL and Dynamic SQL

AACSB Use of Information Technology

35. On-line transaction processing is:

A) A system used for reporting only.

B) Answer: A system used in transaction-oriented applications that involves real-time processing of SQL transactions.

C) A set of tools that provides users with a graphical view of data.

D) None of the above.

Answer: B

Level: Easy Page Ref: 391

Topic: OLAP SQL

AACSB Use of Information Technology

36. OLAP systems differ from OLTP systems in several ways except:

A) Size

B) Answer: Processing

C) Queries

D) Physical Storage

Answer: B

Level: Easy Page Ref: 392

Topic: OLAP SQL

AACSB Use of Information Technology

TRUE/FALSE: Write ‘T’ if the statement is true and ‘F’ if the statement is false.

37. An equi-join is a join in which one of the duplicate columns is eliminated in the result table.

Answer: FALSE

Level: Moderate Page Ref: 358

Topic: Processing Multiple Tables

Subtopic: Equi-join

AACSB Use of Information Technology

38. The joining condition of an equi-join is based upon an equality.

Answer: TRUE

Level: Moderate Page Ref: 358

Topic: Processing Multiple Tables

Subtopic: Equi-join

AACSB Use of Information Technology

39. The natural join is very rarely used.

Answer: FALSE

Level: Easy Page Ref: 360

Topic: Processing Multiple Tables

Subtopic: Natural Join

AACSB Use of Information Technology

40. An SQL query that implements an outer join will return rows that do not have matching values in common columns.

Answer: TRUE

Level: Easy Page Ref: 361

Topic: Processing Multiple Tables

Subtopic: Outer Join

AACSB Use of Information Technology

41. One major disadvantage of the outer join is that information is easily lost.

Answer: FALSE

Level: Difficult Page Ref: 361

Topic: Processing Multiple Tables

Subtopic: Outer Join

AACSB Use of Information Technology

42. Joining tables or using a subquery may produce the same result.

Answer: TRUE

Level: Moderate Page Ref: 364

Topic: Processing Multiple Tables

Subtopic: Subqueries

AACSB Use of Information Technology

43. The following queries produce the same results.

select customer\_name, customer\_city

from customer, salesman

where customer.salesman\_id = salesman.salesman\_id

and salesman.lname = ‘SMITH’;

select customer\_name, customer\_city

from customer

where customer.salesman\_id =

(select salesman\_id

from salesman

where lname = ‘SMITH’);

Answer: TRUE

Level: Moderate Page Ref: 364,365

Topic: Processing Multiple Tables

Subtopic: Subqueries

AACSB Use of Information Technology, Analytic Skills

44. The following query will execute without errors:

select customer.customer\_name, salesman.sales\_quota

from customer

where customer.salesman\_id =

(select salesman\_id

where lname = ‘SMITH’);

Answer: FALSE

Level: Moderate Page Ref: 365

Topic: Processing Multiple Tables

Subtopic: Subqueries

AACSB Use of Information Technology, Analytic Skills

45. In order to find out what customers have not placed an order for a particular item, one might use the NOT qualifier along with the IN qualifier.

Answer: TRUE

Level: Moderate Page Ref: 366

Topic: Processing Multiple Tables

Subtopic: Subqueries

AACSB Use of Information Technology, Analytic Skills

46. EXISTS takes a value of false if the subquery returns an intermediate result set.

Answer: FALSE

Level: Moderate Page Ref: 367

Topic: Processing Multiple Tables

Subtopic: Subqueries

AACSB Use of Information Technology, Analytic Skills

47. When EXISTS or NOT EXISTS is used in a subquery, the select list of the subquery will usually just select all columns as a placeholder because it doesn’t matter which columns are returned.

Answer: TRUE

Level: Easy Page Ref: 367

Topic: Processing Multiple Tables

Subtopic: Subqueries

AACSB Use of Information Technology, Analytic Skills

48. A subquery in which processing the inner query depends on data from the outer query is called a codependent query.

Answer: FALSE

Level: Moderate Page Ref: 368

Topic: Processing Multiple Tables

Subtopic: Subqueries

AACSB Use of Information Technology

49. The following SQL statement is an example of a correlated subquery:

select first\_name, last\_name, total\_sales

from salesman s1

where total\_sales > all

(select total\_sales from salesman s2

where s1.salesman\_id != s2.salesman\_id);

Answer: TRUE

Level: Difficult Page Ref: 368

Topic: Processing Multiple Tables

Subtopic: Subqueries

AACSB Use of Information Technology, Analytic Skills

50. A correlated subquery is executed once for each iteration through the outer loop.

Answer: TRUE

Level: Moderate Page Ref: 368

Topic: Processing Multiple Tables

Subtopic: Correlated Subqueries

AACSB Use of Information Technology

51. Subqueries can only be used in the WHERE clause.

Answer: FALSE

Level: Easy Page Ref: 369

Topic: Processing Multiple Tables

Subtopic: Using Derived Tables

AACSB Use of Information Technology

52. The UNION clause is used to combine the output from multiple queries into a single result table.

Answer: TRUE

Level: Easy Page Ref: 369

Topic: Processing Multiple Tables

Subtopic: Combining Queries

AACSB Use of Information Technology

53. IF-THEN-ELSE logical processing cannot be accomplished within an SQL statement.

Answer: FALSE

Level: Easy Page Ref: 372

Topic: Processing Multiple Tables

Subtopic: Conditional Expressions

AACSB Use of Information Technology, Analytic Skills

54. A transaction is the complete set of closely related update commands that must all be done, or none of them done, for the database to remain valid.

Answer: TRUE

Level: Moderate Page Ref: 377

Topic: Ensuring Transaction Integrity

AACSB Use of Information Technology

55. Transaction integrity commands are not used to identify whole units of database changes that must be completed in full for the database to retain integrity.

Answer: FALSE

Level: Difficult Page Ref: 377

Topic: Ensuring Transaction Integrity

AACSB Use of Information Technology, Analytic Skills

56. RDBMSs store database definition information in system-created tables which can be considered a data dictionary.

Answer: TRUE

Level: Easy Page Ref: 378

Topic: Data Dictionary Facilities

AACSB Use of Information Technology

57. DBA\_USERS contains comments on all tables in an Oracle database.

Answer: FALSE

Level: Moderate Page Ref: 378

Topic: Data Dictionary Facilities

AACSB Use of Information Technology

58. SQL:200n allows one to calculate linear regressions, moving averages and correlations without moving the data outside of the database.

Answer: TRUE

Level: Easy Page Ref: 380

Topic: SQL:200n Enhancements and Extensions to SQL

Subtopic: Analytical Functions

AACSB Use of Information Technology, Analytic Skills

59. MULTISET is similar to the table datatype.

Answer: FALSE

Level: Easy Page Ref: 381

Topic: SQL:200n Enhancements and Extensions to SQL

Subtopic: New Data Types

AACSB Use of Information Technology

60. A routine is a named set of SQL statements that are considered when a data modification occurs.

Answer: FALSE

Level: Easy Page Ref: 386

Topic: Triggers and Routines

AACSB Use of Information Technology

61. Constraints are a special case of triggers.

Answer: TRUE

Level: Moderate Page Ref: 385

Topic: Triggers and Routines

Subtopic: Triggers

AACSB Use of Information Technology

62. Triggers can be used to ensure referential integrity, enforce business rules, create audit trails, replicate tables, but cannot call other triggers.

Answer: FALSE

Level: Moderate Page Ref: 385

Topic: Triggers and Routines

Subtopic: Triggers

AACSB Use of Information Technology

63. Triggers have three parts: the event, the condition, and the action.

Answer: TRUE

Level: Easy Page Ref: 385

Topic: Triggers and Routines

Subtopic: Triggers

AACSB Use of Information Technology

64. A function has only input parameters but can return multiple values.

Answer: FALSE

Level: Easy Page Ref: 386

Topic: Triggers and Routines

Subtopic: Routines

AACSB Use of Information Technology

65. The advantages of SQL-invoked routines are flexibility, efficiency, sharability and applicability.

Answer: TRUE

Level: Easy Page Ref: 387

Topic: Triggers and Routines

Subtopic: Routines

AACSB Use of Information Technology, Analytic Skills

66. A procedure is run by calling it by its name.

Answer: TRUE

Level: Moderate Page Ref: 386

Topic: Triggers and Routines

Subtopic: Routines

AACSB Use of Information Technology

67. SQL statements can be included in another language, such as C or Java.

Answer: TRUE

Level: Moderate Page Ref: 389

Topic: Embedded SQL and Dynamic SQL

AACSB Use of Information Technology

68. OLAP systems need to be fast and therefore contain as little data as possible.

Answer: FALSE

Level: Easy Page Ref: 391

Topic: OLAP SQL

AACSB Use of Information Technology

69. OLTP systems are used by many people with diverse backgrounds.

Answer: TRUE

Level: Easy Page Ref: 391

Topic: OLAP SQL

AACSB Use of Information Technology

70. Circle schemas are used to store data in a data warehouse.

Answer: FALSE

Level: Easy Page Ref: 392

Topic: OLAP SQL

AACSB Use of Information Technology

SHORT ANSWER: Write the word or phrase that best completes each statement or answers the question.

71. A join in which the joining condition is based on equality between values in the common column is called a(n) \_\_\_\_\_\_\_\_\_\_\_\_\_.

Answer: Equi-join or natural join would both be plausible answers.

Level: easy Page Ref: 358

Topic: Processing Multiple Tables

Subtopic: Equi-join

AACSB Use of Information Technology

72. A \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_ is the same as an equi-join, except that it is performed over matching columns that have been defined with the same name and one of the duplicate columns is eliminated.

Answer: natural join

Level: Easy Page Ref: 360

Topic: Processing Multiple Tables

Subtopic: Natural Join

AACSB Use of Information Technology

73. Using an \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_ produces this information: rows that do not have matching values in common columns are also included in the result table.

Answer: outer join

Level: Easy Page Ref: 361

Topic: Processing Multiple Tables

Subtopic: Outer Join

AACSB Use of Information Technology

74. The outer join syntax does not apply easily to a join condition of more than \_\_\_\_\_ tables.

Answer: two

Level: Moderate Page Ref: 361

Topic: Processing Multiple Tables

Subtopic: Outer Join

AACSB Use of Information Technology

75. The results of a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ join will be a table that includes all of the data from each table that is joined.

Answer: union

Level: Easy Page Ref: 339

Topic: Processing Multiple Tables

Subtopic: Union Join

AACSB Use of Information Technology

76. SQL provides the \_\_\_\_\_\_\_\_\_\_\_ technique, which involves placing an inner query within the where or having clause of an outer query.

Answer: subquery

Level: Moderate Page Ref: 364

Topic: Processing Multiple Tables

Subtopic: Subqueries

AACSB Use of Information Technology

77. EXISTS will take a value of \_\_\_\_\_\_\_ if the subquery returns an intermediate results table which contains one or more rows.

Answer: TRUE

Level: Easy Page Ref: 367

Topic: Processing Multiple Tables

Subtopic: Subqueries

AACSB Use of Information Technology

78. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ use the result of the outer query to determine the processing of the inner query.

Answer: Correlated subqueries

Level: Moderate Page Ref: 368

Topic: Processing Multiple Tables

Subtopic: Subqueries

AACSB Use of Information Technology

79. When a subquery is used in the FROM clause, it is called a(n) \_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Answer: derived table

Level: Easy Page Ref: 369

Topic: Processing Multiple Tables

Subtopic: Using Derived Tables

AACSB Use of Information Technology

80. The \_\_\_\_\_\_\_\_\_\_\_ clause is used to combine the output from multiple queries into a single result table.

Answer: UNION

Level: Easy Page Ref: 371

Topic: Processing Multiple Tables

Subtopic: Combining Queries

AACSB Use of Information Technology

81. Establishing IF-THEN-ELSE logical processing within an SQL statement can now be accomplished by using the \_\_\_\_\_\_ keyword in a statement.

Answer: CASE

Level: Easy Page Ref: 372

Topic: Processing Multiple Tables

Subtopic: Conditional Expressions

AACSB Use of Information Technology

82. User-defined \_\_\_\_\_\_\_\_\_\_\_\_\_ can improve system performance because \_\_\_\_\_\_\_\_\_ will be processed as sets rather than individually, thus reducing system overhead.

Answer: transactions, transactions

Level: Moderate Page Ref: 377

Topic: Ensuring Transaction Integrity

AACSB Use of Information Technology

83. The \_\_\_\_\_\_\_\_\_\_\_\_\_\_ DBA view shows information about all users of the database in Oracle.

Answer: DBA\_USERS

Level: Easy Page Ref: 378

Topic: Data Dictionary Facilities

AACSB Use of Information Technology

84. An enhancement to SQL:200n has allowed new \_\_\_\_\_\_ functions to be added.

Answer: OLAP

Level: Moderate Page Ref: 393

Topic: SQL:200n Enhancements and Extensions to SQL

Subtopic: OLAP SQL

AACSB Use of Information Technology

85. \_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_- and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are three new data types added to SQL:200n

Answer: BIGINT, MULTISET and XML

Level: Easy Page Ref: 381

Topic: SQL:200n Enhancements and Extensions to SQL

Subtopic: Programming Enhancements

AACSB Use of Information Technology

86. \_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_ are extensions defined in SQL-99 that include the capability to create and drop modules of code stored in the database schema across user sessions.

Answer: Persistent Stored Modules

Level: Easy Page Ref: 383

Topic: SQL:200n Enhancements and Extensions to SQL

Subtopic: Programming Extensions

AACSB Use of Information Technology

87. \_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_ are very powerful database objects because they are stored in the database and controlled by the DBMS.

Answer: Triggers, routines

Level: Moderate Page Ref: 384

Topic: Triggers and Routines

AACSB Use of Information Technology

88. A \_\_\_\_\_\_\_\_\_\_\_\_\_\_ is a named set of SQL statements that are considered when a data modification occurs.

Answer: trigger

Level: Easy Page Ref: 384

Topic: Triggers and Routines

Subtopic: Triggers

AACSB Use of Information Technology

89. While triggers do run automatically, \_\_\_\_\_\_\_\_\_\_\_ do not.

Answer: routines

Level: Moderate Page Ref: 386

Topic: Triggers and Routines

AACSB Use of Information Technology

90. \_\_\_\_\_\_\_\_\_\_\_\_ can be thought of as a special case of triggers.

Answer: Constraints

Level: Moderate Page Ref: 385

Topic: Triggers and Routines

Subtopic: Triggers

AACSB Use of Information Technology

91. The three parts of triggers are the event, condition, and \_\_\_\_\_\_\_\_\_\_\_\_.

Answer: action

Level: Moderate Page Ref: 385

Topic: Triggers and Routines

Subtopic: Triggers

AACSB Use of Information Technology, Analytic Skills

92. A \_\_\_\_\_\_\_\_\_\_\_ is a stored subroutine that returns only one value and has only input parameters.

Answer: function

Level: Easy Page Ref: 358

Topic: Triggers and Routines

Subtopic: Routines

AACSB Use of Information Technology

93. A \_\_\_\_\_\_\_\_\_\_\_\_\_\_ is a collection of SQL statements that are assigned a unique name and stored in the database.

Answer: procedure

Level: Easy Page Ref: 386

Topic: Triggers and Routines

Subtopic: Routines

AACSB Use of Information Technology

94. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_ consists of hard-coded SQL statements within another language, such as Java or C.

Answer: Embedded SQL

Level: Moderate Page Ref: 389

Topic: Embedded SQL and Dynamic SQL

AACSB Use of Information Technology

95. \_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_ is used to generate appropriate SQL code on the fly.

Answer: Dynamic SQL

Level: Moderate Page Ref: 389

Topic: Embedded SQL and Dynamic SQL

AACSB Use of Information Technology

96. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is a system used in transaction-oriented applications that involve real-time processing of transactions.

Answer: On-line transaction processing.

Level: Easy Page Ref: 391

Topic: OLAP SQL

AACSB Use of Information Technology

97. \_\_\_\_\_\_\_\_\_\_\_\_\_ provides users with a multi-dimensional view of data.

Answer: OLAP

Level: Easy Page Ref: 391

Topic: OLAP SQL

AACSB Use of Information Technology

1. One application of data warehouses is:

A) shipping of information.

B) order processing.

C) Answer: decision support.

D) file updating.

Answer: C

Diff: Difficult Page Ref: 4

Topic: Introduction

2. Older systems that often contain data of poor quality are called \_\_\_\_\_ systems.

A) controlled

B) Answer: legacy

C) database

D) mainframe

Answer: B

Diff: Difficult Page Ref: 26

Topic: Costs and Risks of the Database Approach

Subtopic: Conversion Costs

3. A database is an organized collection of \_\_\_\_\_ related data.

A) Answer: logically

B) physically

C) not

D) badly

Answer: A

Diff: Easy Page Ref: 4

Topic: Basic Concepts and Definitions

4. Which of the following types of data can be stored in a database?

A) Voice

B) Letters

C) Numbers

D) Answer: All of the above.

Answer: D

Diff: Easy Page Ref: 5

Topic: Basic Concepts and Definitions

Subtopic: Data

5. Data processed in a way that increases a user's knowledge is:

A) text.

B) graphics

C) Answer: information.

D) hyperlink.

Answer: C

Diff: Easy Page Ref: 5

Topic: Basic Concepts and Definitions

Subtopic: Data Versus Information

6. Data that describe the properties of other data are:

A) relationships.

B) logical.

C) physical.

D) Answer: None of the above.

Answer: D

Diff: Moderate Page Ref: 6

Topic: Basic Concepts and Definitions

Subtopic: Metadata

7. All of the following are properties of metadata except:

A) data definitions.

B) Answer: processing logic.

C) rules or constraints.

D) data structures.

Answer: B

Diff: Moderate Page Ref: 6, 7

Topic: Basic Concepts and Definitions

Subtopic: Metadata

8. One disadvantage of file processing systems is:

A) reduced data duplication.

B) program-data independence.

C) Answer: limited data sharing.

D) enforcement of integrity constraints.

Answer: C

Diff: Moderate Page Ref: 9

Topic: Traditional File Processing Systems

Subtopic: Disadvantages of File Processing Systems

9. Program-data dependence is caused by:

A) Answer: file descriptors being stored in each application.

B) data descriptions being stored on a server.

C) data descriptions being written into programming code.

D) data cohabiting with programs.

Answer: A

Diff: Moderate Page Ref: 9

Topic: Disadvantages of File Processing Systems

Subtopic: Program-Data Dependence

10. Loss of metadata integrity is often a result of:

A) poor design.

B) Answer: unplanned and uncontrolled duplication of data.

C) decreased programmer productivity.

D) a large volume of file i/o.

Answer: B

Diff: Moderate Page Ref: 9

Topic: Disadvantages of File Processing Systems

Subtopic: Duplication of Data

11. Organizations that utilize the file processing approach spend as much as \_\_\_\_\_\_ of their IS development budget on maintenance.

A) 40 percent

B) 25 percent

C) 60 percent

D) Answer: 80 percent

Answer: D

Diff: Easy Page Ref: 9

Topic: Disadvantages of File Processing Systems

Subtopic: Increased Program Maintenance

12. A picture of the high-level entities for an organization and the relationships among

??the entities is called a(n):

A) logical data model.

B) hypertext graphic.

C) ERD.

D) Answer: enterprise data model.

Answer: D

Diff: Easy Page Ref: 10

Topic: The Database Approach

13. Which of the following is a characteristic of an enterprise data model?

A) Answer: It stresses the integration of data.

B) It duplicates data.

C) It creates physical relationships.

D) It reduces storage.

Answer: A

Diff: Easy Page Ref: 12

Topic: The Database Approach

14. Each column in a table represent a(n) \_\_\_\_\_ of an entity.

A) description

B) Answer: attribute

C) byte

D) logical element

Answer: B

Diff: Moderate Page Ref: 13

Topic: The Database Approach

Subtopic: Relational Databases

15. Intracompany communication can be improved through the use of a(n):

A) telephone.

B) fax machine.

C) Answer: intranet.

D) extranet.

Answer: C

Diff: Moderate Page Ref: 14

Topic: The Database Approach

Subtopic: Introducing Internet Technology

16. A tool that enables analysts to query and analyze databases is:

A) cross-line deployment analysis.

B) analytical transaction processing.

Answer: on-line analytical processing.

C) query processing.

Answer: C

Diff: Moderate Page Ref: 15

Topic: The Database Approach

Subtopic: Introducing Internet Technology

17. Which of the following functions does a database application program perform?

A) Create data

B) Retrieve data

C) Delete data

D) Answer: All of the above.

Answer: D

Diff: Easy Page Ref: 15

Topic: The Database Approach

Subtopic: A Database Application

18. Which of the following decisions must be made when developing a

personal computer database?

A) Buy or make

B) Database design

C) Who is responsible for data accuracy

D) Answer: All of the above.

Answer: D

Diff: Moderate Page Ref: 16

Topic: The Range of Database Applications

Subtopic: Personal Databases

19. A relatively small team of people who collaborate on the same project is called a(n):

A) server group.

B) Answer: workgroup.

C) data collaborative.

D) typical arrangement.

Answer: B

Diff: Easy Page Ref: 17

Topic: The Range of Database Applications

Subtopic: Workgroup Databases

20. A workgroup database is stored on a central device called a(n):

A) client.

B) Answer: server.

C) remote PC.

D) network.

Answer: B

Diff: Moderate Page Ref: 18

Topic: The Range of Database Applications

Subtopic: Workgroup Databases

21. In addition to the decisions regarding a PC database, which of the following questions are important to workgroup databases?

A) Which processes should be performed on the server and which on the client?

B) With a large number of users, how can the database be optimized?

C) How can members use the database easily?

D) Answer: All of the above.

Answer: D

Diff: Moderate Page Ref: 18

Topic: The Range of Database Applications

Subtopic: Workgroup Databases

22. Which of the following is the most common type of database described in the book?

A) Mainframe

B) PC

C) Answer: Department

D) Small

Answer: C

Diff: Moderate Page Ref: 19

Topic: The Range of Database Applications

Subtopic: Department Databases

23. Which of the following is an integrated decision support database with content derived from various operational databases?

A) Corporate data structure

B) Relational DBMS

C) Answer: Data warehouse

D) Client-server system

Answer: C

Diff: Easy Page Ref: 20

Topic: The Range of Database Applications

Subtopic: Enterprise Databases

24. A data warehouse derives its data from:

A) on-line transactions.

B) Answer: various operational data sources.

C) reports.

D) a datamart.

Answer: B

Diff: Moderate Page Ref: 20

Topic: The Range of Database Applications

Subtopic: Enterprise Databases

25. An extranet provides:

A) extra computing time.

B) access to company data by company personnel only.

C) Answer: limited access to company data and information to customers and suppliers.

D) extra data.

Answer: C

Diff: Moderate Page Ref: 22

Topic: The Range of Database Applications

Subtopic: Internet, Intranet, and Extranet Databases

26. With the database approach, data descriptions are stored in a central location known as a(n):

A) server.

B) mainframe.

C) PC.

D) Answer: repository.

Answer: D

Diff: Easy Page Ref: 23

Topic: Advantages of the Database Approach

Subtopic: Program-Data Independence

27. Which of the following is NOT an advantage of database systems?

A) Answer: Redundant data

B) Program-data independence

C) Better data quality

D) Reduced program maintenance

Answer: A

Diff: Easy Page Ref: 23

Topic: Advantages of the Database Approach

28. A user view is:

A) what a user sees when he or she looks out the window.

B) a table or set of tables.

C) Answer: a logical description of some portion of the database.

D) a procedure stored on the server.

Answer: C

Diff: Easy Page Ref: 23

Topic: Advantages of the Database Approach

Subtopic: Improved Data Sharing

29. Which organizational function should set database standards?

A) Management

B) Application development

C) Technical services

D) Answer: None of the above.

Answer: D

Diff: Moderate Page Ref: 24

Topic: Advantages of the Database Approach

Subtopic: Enforcement of Standards

30. The most common source of database failures in organizations is:

A) lack of planning.

B) inadequate budget.

C) inadequate hardware.

D) Answer: failure to implement a strong database administration function.

Answer: D

Diff: Difficult Page Ref: 24

Topic: Advantages of the Database Approach

Subtopic: Enforcement of Standards

31. A rule that canNOT be violated by database users is called a:

A) password.

B) Answer: constraint.

C) program.

D) view.

Answer: B

Diff: Easy Page Ref: 24

Topic: Advantages of the Database Approach

Subtopic: Improved Data Quality

32. In a file processing environment, descriptions for data and the logic for accessing the data is built into:

A) Answer: application programs.

B) database descriptors.

C) fields.

D) records.

Answer: A

Diff: Easy Page Ref: 25

Topic: Advantages of the Database Approach

Subtopic: Reduced Program Maintenance

33. Databases may be more expensive to maintain than files because of:

A) the need for specialized personnel.

B) the complexity of the database environment.

C) backup and recovery needs.

D) Answer: All of the above.

Answer: D

Diff: Easy Page Ref: 25,26

Topic: Costs and Risks of the Database Approach

34. Which of the following is NOT a cost and/or risk of the database approach?

A) Specialized personnel

B) Cost of conversion

C) Answer: Improved responsiveness

D) Organizational conflict

Answer: C

Diff: Moderate Page Ref: 25,26

Topic: Costs and Risks of the Database Approach

35. The need for consensus on data definitions is an example of which type risk in the database environment?

A) Specialized personnel needs

B) Answer: Organizational conflict

C) Conversion costs

D) Legacy systems

Answer: B

Diff: Moderate Page Ref: 26

Topic: Costs and Risks of the Database Approach

Subtopic: Organizational Conflict

36. Which of the following is software that is used to create, maintain, and provide controlled access to databases?

A) Network operating system

B) User view

C) Answer: Database management system

D) Attribute

Answer: C

Diff: Easy Page Ref: 27

Topic: Components of the Database Environment

37. A centralized knowledge base of all data definitions, data relationships, screen and report formats, and other system components is called a(n):

A) index.

B) data warehouse.

C) Answer: repository.

D) database management system.

Answer: C

Diff: Easy Page Ref: 27

Topic: Components of the Database Environment

Subtopic: Repository

38. CASE is a class of tools that:

A) assists the database administrator in maintaining a database.

B) provides guidelines for the physical design of a database.

C) provides management reporting tools.

D) Answer: automates the design of databases and application programs.

Answer: D

Diff: Moderate Page Ref: 27

Topic: Components of the Database Environment

Subtopic: Computer-aided Software Engineering Tools

39. E. F. Codd developed the relational model in the:

A) 1960s.

B) Answer: 1970s.

C) 1980s.

D) 1990s.

Answer: B

Diff: Easy Page Ref: 28

Topic: Evolution of Database Systems

40. Languages, menus, and other facilities by which users interact with the database are collectively called a(n):

A) client.

B) Answer: user interface.

C) icon.

D) development environment.

Answer: B

Diff: Easy Page Ref: 27

Topic: Components of the Database Environment

Two sets of FD's S ang T are equivalent if

answer: S follows from T and T follows from S

The normal form which deals with multivalued dependencies is called

answer: Fourth normal form

The normal form which is interested in prime attributes on the right side of functional dependencies is called

answer: Third normal form

Give a relation R(A,B,C,D). Which of the followings is trivial?

answer: A->AB (Ve trai la con ve phai)

Give a relation R(A,B,C,D), with a functional dependencies A->BC, C->D, D->B.Compute {A}+

answer: {A,B,C,D}

Which of the followings statement is incorrect?

answer: A relation with only two attribute is In Boyce-Codd normal form

In E/R model one entity set can appear \_\_\_\_\_\_\_\_\_ in a relationship

answer: indefinite

Which of the following is an entity type on which a strong entity depends ?

answer: None of the others

A (n) \_\_\_\_\_\_\_\_\_\_ is the relationship between a weak entity type and its owner.

answer: supporting relationship

WebCT Assignment #2

1. Data modeling may be the most important part of the systems development process because:

a) It is the easiest

b) Data are less stable than processes.

answer:c) Data characteristics are important in the design of programs and other systems components

d) The data in a system are generally less complex than processes, and play a central role in development

2. A business rule:

a) Defines or constrains some aspect of the business

b) Asserts business structure

c) Controls or influence the behavior of the business

answer:d) All of the above

3. Business rules should be determined primarily by interviewing executives in the business.

a) True

answer:b) False

REASON: Business rules should be determined from many sources, including policies, manuals, contracts, and brochures.

4. The common types of entities are:

a) Strong entities

b) Weak entities

c) Associative entities

answer:d) All of the above

5. A property or characteristic of an entity type that is of interest to the organization is called a(n):

a) Relationship

b) Cross-function

c) Coexisting entity

answer:d) attribute

6. A relationship is an association between attributes.

a) True

answer:b) False

REASON: A relationship is an association between entity types.

7. A good data name should be:

a) Readable, repeatable and technical

b) Meaningful, technical, and unique

c) Repeatable, short, and meaningful

answer:d) readable, unique, and repeatable

REASON: These are just a few of the characteristics of a good data name.

8. A multivalued attribute is an attribute that is common to many entities.

a) True

answer:b) False

REASON: A multivalued attribute is an attribute that may take on more than one value for a given entity instance.

9. The following figure shows an example of:

answer:a) A strong entity and its associated weak entity

b) A one-to-many relationship

c) A co-dependant relationship

d) A double-walled relationship

10. A person's name, birthday, and social security number are all examples of:

a) Entities

b) Descriptors

c) Relationships

answer:d) Attributes

11. A(n) \_\_\_\_\_ is the relationship between a weak entity type and its owner.

a) associative entity

b) jump path

c) chain link

answer:d) identifying relationship

12. The \_\_\_\_\_ specifies the number of instances of one entity that can (or must) be associated with each instance of another entity.

a) multivalued attribute

b) entity instance

answer:c) cardinality constraint

d) associative entity

REASON: A minimum or maximum cardinality may be defined for relationships.

13. The degree of a relationship is the number of entity types that participate in a relationship.

answer:a) True

b) False

REASON: The three most common relationship degrees are unary, binary, and ternary.

14. A ternary relationship is a simultaneous relationship between more than three entity types.

a) True

answer:b) False

REASON: A ternary relationship is a simultaneous relationship among only three entity types.

15. Which is NOT a basic construct of an E-R model?

a) Attributes

b) Entity types

answer:c) Identifiers

d) Relationships

REASON: The basic constructs are relationships, entity types, and attributes.

16. In the following figure "address" is an example of:

a) A relational attribute

b) A multivalued attribute

c) A derived attribute

answer:d) A composite attribute

17. An example of a multivalued attribute might be:

a) Student\_GPA

b) ID\_Number

c) Student\_Address

answer:d) College\_Degree

REASON: College\_Degree might have multiple values for an individual.

18. An attribute that can be calculated from related attribute values is called a \_\_\_\_\_ attribute.

a) multivalued

b) composite

c) simple

answer:d) derived

19. An attribute that uniquely identifies an entity, and consists of a composite attribute is called a(n):

a) Composite attribute

answer:b) Composite identifier

c) Identifying attribute

d) Relationship identifier

20. An entity that associates the instances of one or more entity types and contains attributes specific to the relationships is called a(n):

answer:a) Associative entity

b) Connecting entity

c) Intersectional entity

d) All of the above

21. The number of entity types that participate in a relationship is called the:

a) Identifying characteristic

answer:b) Degree

c) Counter

d) Number

22. A relationship between the instances of a single entity type is called a \_\_\_\_\_ relationship.

a) Ternary

b) Binary

c) Primary

answer:d) Unary

23. An entity type name should always be a singular noun.

answer:a) True

b) False

24. A simultaneous relationship among the instances of three entity types is called a \_\_\_\_\_ relationship.

a) binary

b) primary

answer:c) ternary

d) tertiary

25. In the figure shown below, which of the following is true?

answer:a) A person can marry only one person

b) A person can marry more than one person, but that person can only be married to one person

c) A person can marry more than one person

d) A person has to be married

26. A \_\_\_\_\_ specifies the number of instances of one entity that can be associated with each instance of another entity.

answer:a) Cardinality constraint

b) Degree

c) Limit

d) Counter constraint

27. A relationship where the minimum and maximum cardinality are both one is a(n) \_\_\_\_\_ relationship.

a) Optional

answer:b) Mandatory one

c) Mandatory link

d) Unidirectional

28. For the relationship represented in the figure below, which of the following is true?

a) An employee can work for more than one department but does not have to work for any departments

answer:b) A department can have more than one employee

c) An employee has to work for more than one department

d) A department must have at least one employee

29. In the figure shown below, which of the following business rules would apply?

answer:a) Each vendor can supply many parts to any number of warehouses, but need not supply any parts

b) Each part must be supplied by exactly one vendor to any number of warehouses.

c) Each warehouse can be supplied with any number of parts from more than one vendor, and each warehouse could be supplied with no parts

d) None of the above

30. A mutually exclusive relationship is one in which:

a) An entity instance can participate in many different relationships

answer:b) An entity instance can participate in only one of several alternative relationships

c) An entity instance can not participate in a relationship with another entity instance

d) None of the above

31. A student can attend five classes, each with a different professor. Each professor has 30 students. The relationship of students to professors is a \_\_\_\_\_ relationship.

a) One-to-one

b) Strong

c) One-to-many

answer:d) Many-to-many

32. The total quiz points for a student for an entire semester is a(n) \_\_\_\_\_ attribute.

a) Stored

answer:b) Derived

c) Mixed

d) Addressed

33. In the figure below, which attribute is multi-valued?

a) Years\_Employed

b) Employee\_ID

c) Address

answer:d) Skill

Business rule: A statement that defines or constrains some aspect of the business. It is intended to assert business structure or to control or influence the behavior of the business.

Term: A word or phase that has a specific meaning for the business.

Fact: An association between two or more terms.

Entity-relationship model (E-R model): A logical representation of the data for an organization or for a business area.

Entity-relationship diagram (E-R diagram): A graphical representation of an entity-relationship model.

Entity: A person, place, object, event or concept in the user environment about which the organization wishes to maintain data.

Entity type: A collection of entities that share common properties or characteristics.

Entity instance: A single occurrence of an entity type.

Strong entity type: An entity that exists independently of other entity types.

Weak entity type: An entity whose existence depends on some other entity type.

Identifying owner: The entity type on which the weak entity type depends.

Identifying relationship: The relationship between a weak entity type and its owner.

Attribute: A property or characteristic of an entity type that is of interest to the organization.

Composite attribute: An attribute that can be broken down into component parts.

Simple attribute: An attribute that cannot be broken down into smaller components.

Multivalued Attribute: An attribute that may take on more than one value for a given entity instance.

Derived attribute: An attribute whose values can be calculated from related attribute values.

Identifiers: An attribute (or combination of attributes) that uniquely identifies individual instances of an entity type.

Composite Identifiers: An identifier that consists of a composite attribute .

Relationship types : A meaningful association between (or among) entity types.

Relationship instance : An association between (or among) entity instances where each relationship instance includes exactly one entity from each participation entity type.

Associative entity: An entity type that associates the instance of one or more entity types and contains attributes that are particular to the relationship between those entity instances.

Degree: The number of entity types that participate in a relationship.

Degree -> Unary relationship : A relationship between the instance of a single entity type.

Degree -> Binary relationship : A relationship between the instances of two entity types.

Degree -> Ternary relationship : A relationship between the instances of three entity types.

Cardinality constraint : Specifies the number of instances of one entity that can (or must) be associated with each instance of another entity.

Minimum Cardinality: The minimum number of instances of one entity that may be associated with each instance of another entity.

Maximum Cardinality: The maximum number of instances of one entity that may be associated with each instance of another entity.

Time stamp : A time value that is associated with a data value.

Back to the Top

Questions from Companion Website

Multiple Choice

1. The E-R model is most often used as a tool during the \_\_\_ phase of database development.

answer: analysis

The E-R model is used to construct a conceptual data model.

2. Good business rules are

answer: expressible, atomic, and business-oriented.

These are just a few of the characteristics of a good business rule.

3. A good data name should be

answer: readable, unique, and repeatable.

4. Which is NOT included in the definition of an entity?

answer: Action

An entity is a person, place, object, event, or concept.

5. Which is NOT an example of a strong entity type?

answer: STUDENT\_ID

STUDENT\_ID depends upon the existence of the STUDENT entity, so it is not a strong entity type.

6. A property or characteristic of an entity type is a(n)

answer: attribute.

A property or characteristic of an entity is an attribute.

7. If EMPLOYEE is the entity type, then SMITH, JOHN is the entity \_\_\_\_.

answer: instance

SMITH, JOHN is a single occurrence of an entity type.

8. An attribute whose value can be calculated from related attribute values is a(n) \_\_\_ attribute.

answer: derived

For example, a customer’s total bill can be calculated by finding the sum of all line items.

9. An attribute that can be broken down into component parts is a \_\_\_\_ attribute.

answer: composite

An example is Address, which can be broken down into street, city, state, etc.

10. A meaningful association between entity types is a(n)

answer: relationship type.

In an E-R model this is usually denoted by a diamond symbol.

11. The most common type of relationship encountered in data modeling is the \_\_\_\_ relationship.

answer: binary

A binary relationship is a relationship between the instances of two entity types.

12. The \_\_\_\_\_\_\_ specifies the number of instances of one entity that can (or must) be associated with each instance of another entity.

answer: cardinality constraint

A minimum or maximum cardinality may be defined for relationships.

13. An example of a good relationship name is

answer: Teaches.

This is a verb phrase and is descriptive.

14. Which is NOT a basic construct of an E-R model?

answer: Identifiers

The basic constructs are relationships, entity types, and attributes.

15. An example of a multivalued attribute might be

answer: College\_Degree

College\_Degree might have multiple values for an individual.

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True/False Questions

1. The E-R model was introduced in an article by Chen in the 1980s.

answer: FALSE

The E-R model was introduced in the 1960s.

2. Business rules should be determined primarily by interviewing executives in the business.

answer: FALSE

Business rules should be determined from many sources, including policies, manuals, contracts, and brochures.

3. Data names should relate to business but not be overly technical.

answer: TRUE

Customer would be a good data name; Field4DB2 would not be a good data name.

4. Diagrams are not usually used for data definitions.

answer: FALSE

E-R diagrams will often accompany data definitions.

5. An E-R diagram consists of entities and resources.

answer: FALSE

An E-R diagram contains entities and relationships.

6. There is no standard notation for an E-R diagram.

answer: TRUE

Some notations are better than others, but there is no standard notation.

7. A strong entity type does not need an identifier.

answer: FALSE

A strong entity type always has a unique characteristic or an identifier.

8. STUDENT\_REGISTRATION\_FOR\_CLASS is a good entity type name.

answer: FALSE

Entity type names should be more concise.

9. A cardinality constraint specifies the maximum number of attributes an entity may have.

answer: FALSE

A cardinality constraint specifies the maximum number of instances one entity may be associated with each instance of another entity.

10. An entity can have only one defined attribute.

answer:FALSE

Entities can have many attributes.

11. A multivalued attribute is an attribute that is common to many entities.

answer: FALSE

A multivalued attribute is an attribute that may take on more than one value for a given entity instance.

12. A relationship is an association between attributes.

answer: FALSE

A relationship is an association between entity types.

13. The degree of a relationship is the number of entity types that participate in a relationship.

answer: TRUE

The three most common relationship degrees are unary, binary, and ternary.

14. A ternary relationship is a simultaneous relationship between more than three entity types.

answer: FALSE

A ternary relationship is a simultaneous relationship among only three entity types.

15. A time stamp is a time that is saved whenever the database is opened.

answer: FALSE

A time stamp is a date and time that is associated with a data value.

Suppose we have an ISA relationship from entity set R to entity set S. Which of follows is right answer ?

answer:R i a subclass of S

How many entity sets can be in a relationship in E/R model?

answer: Indefinite

The relationship for the weak entity set W must include

answer: All of the others

Choose a right answer

answer All of the others (Attributes are very simple values ,e.g. intergers or character strings // Entity set have associated attributes // Relationships can have attributes)

Choose a wrong answer

answer:

suppose R(A,B,c) is bag, S=A,B(R). Choose a right answer

answer:

Suppose R and S are bags, R and S are type compatible, and t is the tuple that appears n times in R, and m times in S (n>=0, m>=0).How many times does t tuple appear in RUS?

answer: n + m

Suppose a relation R has two numeric attributes A, B. Which of the following queries do we use to count the number of tuples in R ?

answer: All of the others

Suppose two realations R(A,B,C) and S(A,B,C) are type compatible, where A, B, C are numeric attributes, Which of following queries is invalid ?

answer: None of the others

Suppose a relation S has three numeric attributes A, B, and C.Choose a invalid query

answer:SELECT A,SUM(\*) FROM S GROUP BY A HAVING COUNT(B)<20

Suppose a relation S has three numeric attributes A, B, and C.Choose a valid query

answer:SELECT A,SUM(C) FROM S GROUP BY A HAVING COUNT(\*)<20

NULL value is

answer: allof the others

Which SQL isolation level does not allow dirty reads, non-repeatable reads, and phantoms ?

answer: Serializable

Which of following condition is TRUE

answer: (UNKNOWN OR TRUE) OR (UNKNOWN AND FALSE)

Sub-queries cannot appear in

answer: GROUP BY clause

Suppose a relation Employee with two attributes Name and Salary. To find an employee(s) whose salary is the highest in company, we cannot use which of the following queries ?

answer: SELECT Name, Salary FROM Employee WHERE Salary >= MAX (SELECT Salary FROM Employee)

Atomic value that can appear as one component of a tuple is refer to

answer: scalar

Choose an invalid query

answer: CREATE TABLE Movies( Title CHAR(50) PRIMARY KEY .....

Which of the following doesn't take the key's condition 'no two tuples agree on all attributes of key'?

answer:Foreign key

The another name of referential integrity constraint is

answer: Foreign key constraint

To declare a constraint that an employee is only male or female, we use

answer: Attribute-based CHECK constraint

Suppose two relations R(A:int, B:string) and S(C:int,D:string). Which of the followings is valid in SQLServer?

answer: ALTER TABLE R ADD CONSTRAINT RCHK CHECK (A IN (1,2,3,4,5));

Suppose a relation R(A,B,C,D) and a constrain says that in every tuble of this relation a value on D component must be equal to total of values on other components.How can we implement this constraint?

answer:We create a tuble-based CHECK constraint

Suppose there are two relations R(A,B,C) and S(D,E,F) and a referential integrity constraint from D of S to A of R, where A is a primary key of R. Which of the followings can violate this constraint ?

answer: Insert a new tuple to the relation S

Choose a right answer

answer: None of theende others (An assertion is a series ... , A trigger is a boolean-value SQL ... , An assertion is a boolean-value...)

When a referential integrity constraint is violated, the designer can use

answer: All of the others

Which of the followings is part of the SQL trigger statement ?

answer: All of the others ( Triggering event , Condition of the trigger ,Action)

Choose a right answer

answer: On default, any modification violating the referential integrity constraint is rejected

Suppose a relation MovieStar(name, address, birthday) and relation StarIN(movieTitle ,movieYear, starName). To declare a constraint that a star may not appear in a movie made before they were born, we must

answer: Create an attribute-based constraint on movieYear attribute of StarIn relation

Values of the \_\_\_\_\_\_\_\_\_\_\_ appearing in the first relation must also appear in the referenced attributes of some tuples

answer: Foreign key

Suppose a relation Employee(EmployeeNo, EmployeeName, ManagerNo), and a referential integrity constraint from ManagerNo to EmployeeNo. This constraint describes that who is a manager of certain employee. Which of following action may violate this constraint ?

answer: all of the others

Suppose there are two relation R(A,B,C) and S(D,E,F), and a referential integrity constraint from D of S to A of R, where A is a primary key of R.Which of the followings can violate this constraint ?

answer:Insert a new tuple to the relation S

The another name of referential integrity constraint is

answer: Foreign key constraint

Suppose an updatable view EmployeeOnResearch is associated to Employee relations. Choose a wrong answer

answer: Dropping EmployeeOnResearch view will make the relation Employee unusable ?

Suppose two relations R(A,B) and S(C,D) where all attributes are numeric. We create a materialized view T as followed: CREATE MATERIALIZE VIEW R\_S SELECT A, D FROM R, S WHERE R.B=S.C; Which of the following effects on R\_S materialized view ?

answer: ALl of the others ?

We choose an attribute as an index when

answer: All of the others ?

Why are we very conservative about creating indexes ?

answer: Because each change on relation forces to change any relatively index

\_\_\_\_\_\_\_\_\_ view associated to more than one relations

answer: Materialized

Choose a right answer

answer: A virtual view is define by an expression like a query

Suppose a relation R(A,B,C) where all attributes are numeric. Choose a valid query

answer: None of the others

Choose a wrong answer

answer: None of the others (An index is a data structure used to speed access to tuples of a relation , An index is a binary search tree of(key,locations) ,Every relation has only one index)

Choose a wrong statement

answer: No index contain more than one attribute

Suppose a relation R(A,B,C) where all attributes are numeric. Choose a valid query

answer: CREATE VIEW RS AS SELECT A,B FROM R R1, R R2 WHERE R1.C=R2.C AND R1.A <> R2.c);

Suppose an updatable view FoxMovies is associated to Movies relation. Choose a right answer

answer: All of the others

The most useful index on a relation is an index on its key. This is because

answer: Queries in which a value for the key is specified are common, so an index on the key will get used frequently. In addition, there is at most one tuple with a given key value, the index alse returns either nothing of one location for a tuple.

Which of the followingis not a benefit of using views?

answer: None of the others

A clustering index is

answer: An index that is defined on non-key field(s) and there can be more than one record correspoding to a value of the indexing field

Choose the right statement

answer: All of the others (We can create index on a single attribute // We can create as many indexes as we wish,but we need to analyze the trade-off // We can create index on a multiple attributes)

Choose the invalid statement

answer: Views allow each user to have his or her own view of the database, which creates data redundancy

Choose the right statement

answer: All of the others (A view can be created that uses more than one table or other views with a SELECT clause of any complexity // A view can be created logically from other tables // A view can be created logically from other views)

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1. Choose the false statement about the decomposition into BCNF?

Answer:The relations of the decomposition are all in BCNF

2.\_\_ is the framework under which data may exist and SQL operations on data may be executed

Answer:SQL environment

3. Which of the followings is the extended operator of relational algebra?

Answer:All of the others

4. Which statement is true regarding subqueries?

Answer:All of the others

5. In ODL, if we have a many-one relationship from class C to class D, then \_\_

Answer:... just D,... SET

6. Which of the follwing statements is invalid?

Answer:If A->B, B-->>C,A->C holds, too

7. Which of the following is applied in PSM

Answer:All of the others

8.Which of the followings may be a part of well-formed XML document?

Answer:All of the others

9. Suppose the realtion SALE(item, customer, quantity, price) with more than billion tuples from the large database. We try to provide a rapid random and sequential access to this table by \_\_\_

Answer:Creating some indices

10. Suppose a realtion PROJECT(projectID,projectName,location,department, ProjectLo1(projectID, projectName,department) is an updatable view associated to PROJECT where location=1. Evaluate the following statement: INSERT INTO ProjectLo1(projectID,projectName,department) VALUES(200.'ERP1.0',1);

Answer:...is no new tuple on ProjectLo1, and newtuple(200.'ERP 1.0',null, 1) on Project

11. Which of the followings is characteristic of UML?

Answer:Classes are sets of objects, with states and behaviors

12. SUppose R(A,B) and S(B,C) are bags. R has two tuples (1,2),(2,3). S has three tuples (1,3),(3,2),(2,1).Evaluate the following realtional expression: gA,SUM(C)->SUMC(R\*S), where \* denotes the natural join.

Answer:two tuple (1,1) and (2,2)

13. Which of the following statement is belong to DML?

Answer:GRANT

14.Suppose the relation Project(number,name,department,location).Evaluate the following statement: SELECT distinct p1.location FROM Project p1, Project p2 WHERE p1.location = p2.location AND p1.number<p2.number

Answer:..there are more than one projects

15. Suppose a realtion PROJECT(projectID,projectName,location,department, ProjectLo1(projectID, projectName,department) is an updatable view associated to PROJECT where location=1. Evaluate the following statement: DELETE FROM ProjectLo1 WHERE department=1;

Answer:..whose value on component department is 1, and value on component location is 1,too

16.Suppose the following statement: CREAT TABLE EMPLOYEE( SSN INT PRIMARY KEY, FULLNAME NVARCHAR(100), GENDER CHAR(1) DEFAULT ' UNDEFINED', AGE INT DEFAULT '18', CHECK ((GENDER = 'F' AND AGE<55) OR (GENDER='M' AND AGE <60))); Evaluate this statement in SQLSever 2005

Answer:..successfully, newtable name as EMPLOYEE is created

17.The responsibility of Database management system is \_\_

Answer:all of the others

18. Which of following statements is allowed in SQLServer 2005

Answer:all of the others

19. which of the followings cannot be used to construct the complex type in XML Schema

Answer:By using tag

20. Suppose the relation tblEmployee(EmployeeID, EmployeeName,Salary,department).Consider the following code in SQL Sever 2005:DECLARE @EmployeeID INT,@EmployeeName NVARCHAR(50),@SALARY DECIMAL(10,0); DECLARE myCursor CURSOR FOR Select EmployeeID, EmployeeName, Salary FROM tblEMPLOYEE WHERE department =1; OPEN myCursor; FETCH NEXT FROM MyCursor INTO @EmployeeID, @EmployeeName, @Salary;IF @@FETCH\_STATUS<>0 PRINT '<<NONE>>'; WHILE @@FETCH\_STATUS=0 BEGIN PRINT @EmployeeID + ''@EmployeeName +' '+@Salary; FETCH NEXT FROM myCursor INTo @EmployeeID,@EmployeeName,@Salary;END CLOSE myCursor; DEALLOCATE myCursor; What happens if we execute this code?

Answer:..and prints out three values for each existing employee in tblEmployee table

21. Suppose R(A,B) and S(B,C) are bags. R has two tuples (1,1),(1,2).S has three tuples (1,2),(2,1),(2,2). Evaluate the following Datalog rule: H(x) <- R(x,y) AND S(y,z) AND NOT R(x,z)

Answer:relation H has no tuples

22. Suppose the relation WorksOn(project, employee, hoursperweek).Consider the following constraint: Nobody can't work more than 40 hours a week(for all his/her projects).How can we implement this constraint in SQLServer 2005

Answer:..a trigger to refuse all modifications violating this constraint

23. Which of the following Datalog rules is unsafe

Answer:Q(x,y,z)<-U(x,y) AND T(x,y) AND NOT T(x,z)

24. Suppose two relations Project (number, name, location, department) and Department(number, name).Evaluate the following SQL statement: SELECT D.number, D.name, P.number, P.name FROM Department D LEFT OUTER JOIN Project P ON (D.number = P.department);

Answer:..department irrecpective of whether they control projects or not

25. Which of the following expression represents the below constraint on relation R(A:int,B:int,C:int): For every tuple in R, the value on A must be greater than the value on B or value on C must be less than the sum of value on A and value on B

Answer:sA->B OR C < A + B( R ) =

26. which of the following statement is used to delete all data from table EMPLOYEES except its schema

Answer:DELETE FROM EMPLOYEES

27. which of the followings has the same meaning as attribute-based constraint?

Ventity-based constraint

28. When we define an attribute A as PRIMARY KEY of relation R, then \_\_\_\_\_\_\_\_\_\_\_\_

Answer:all of the others

29. An attributes in\_\_\_\_\_\_\_\_\_\_\_\_ are only integers and character strings

Answer:ODL

30. How can we convert the subclass structures to relations

Answer:contruct a single relation for whole hierarchy of entity sets

31. Which of the following statements is true about the User Defined Type?

Answer:all of the others

32. Which of the followings is true about SQL session?

Answer:The session lasts as long as the connection that created it

33. Which of the followings is false about weak entity set?

Answer:The key for a weak entity set includes the keys for all supporting entity sets

34. What do we say about views?

Answer:all of the others

35. Given two relation tblEmployee(EmployeeID,EmployeeName,Salary,Department) and tblDepartment(DepartmentID, DepartmentName,Manager,AssignData).Suppose that Scott is granted as followed: GRANT SELECT, UPDATE ON tblEmployee TO Scott; GRANT SELECT(DepartmentID, Manager) ON tblDepartment to Scott;Which of the following statements is available for Scott?

Answer:all of the others

36. Which of the followings is right about attributes on XML documents?

Answer:DTD is a grammar-like set of rules to ensure that a XML document must be well-formed

37. Suppose the relation Employee(SSN, Fullname,Salary, SupervisorSSN).Consider the following condition: NOT EXISTS(SELECT\*FROM EMPLOYEE WHERE SupervisorSSN NOT IN (SELECT SSN FROM EMPLOYEE)).Which of the following activities may violate this condition?

Answer:all of the others

38. Which of the followings evolves to information integration?

Answer:None of the others

39. Which of the followings was the first ever used for data model

Answer:file System

40. Suppose the relation SALE(item, cusomter, quantity, price) with more than billion tuples from the large database. We try to provide a rapid random and sequential access to this table by\_\_\_\_\_\_\_\_\_

Answer:..make the viewProjectNo1 unusable

41. Suppose the relation WorksOn(project, employee, hoursperweek).Consider the following query:Listing all those projects with at least 10 workers.The condition 'at least 10 worker' must be\_\_\_\_\_\_\_\_

Answer:appeared in HAVING clause as condition con classified groups

42. An A attribute is called the key of relation R if\_\_\_\_\_\_\_\_\_\_\_\_

Answer:all of the others

43. Where cannot we use PSM procedures?

Answer:None of the others

44.View is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Answer:None of the others

45. \_\_\_\_\_\_\_manage the interations with the user

Answer:The webserver-tier processes

46. Suppose the relation R(A,B,C,D) and set of FDs A->B,B->C,C->D. Suppose the projection R1=PA,C,D®

Answer:A->C, A->D

47. Suppose two relations tblEmployee(EmployeeID, EmployeeName, Salary, memberOf(\*tblDepartment)) and tblDepartment(DepartmentID,DepartmentName,managerIs(tblEmployee)).What doeas the meberOf(tblDepartment) mean?

Answer:..is a single tuple of relation schema named tblDepartment

48. Suppose two predefined types AuthorType and BookType in UDT. We have defined two relations named Authors and Books based on these types.To present the statement 'Which authors have written which books we define the table Writes.Which of the followings is valid definition for Writes table?

Answer:W author REF(Type),book REF(BookType));

49. Which of the followings is false about E/R model?

Answer:.. very simple types, e.g integers or character strings

50. Which of the following statements is true?

Answer:A recursion in Datalog can be expressed in relational algebra

51. Suppose the relation Employee(SSN:char(12),Supervisor:char(12),Num\_Of\_Supervised:int),where Supervisor indicates that who supervises the current employee, and Num\_Of\_Supervised indicates that how many employees are supervised by this employee.Which of the followings is not allowed in SQL Server 2005

Answer:None of the others

52. Suppose the relation Employee(SSN, Fullname,Salary, SupervisorSSN).Consider the following query: SELECT\*FROM Employee WHERE NOT EXISTS(SELECT\*FROM Employee WHERE SSN=SupervisorSSN)

Answer:.. successfully, and return all those employees who don't supervise any other employee

53. Given two relation tblEmployee(EmployeeID,EmployeeName,Salary,Department).Suppose we connected to SQL with Scott authorization ID.Which of privileges must Scott have to execute the following statement: DELETE FROM tblEmployee WHERE EmployeeID IN(SELECT EmployeeID FROM tblEmployee WHERE department IS NULL)

Answer:DELETE on tblEmployee

54. which of the followings doesn't take the key's condition 'no two tuples agree on all attributes of key'?

Answer:foreign key

55. Suppose we have two elements Department and Project. The Department element has a key named depKey on the attribute DepartmentNo. The Project has an attribute named DepartmentNo, and we'd like to define it as foreign key.Which of followings can be use?

Answer:<xs:keyref name="depRef" refers="depKey"><xs:selector:xpath="Project"/><xs:field xpath="DepartmentN 0"/></xs:keyref>

56. suppose relation R(A,B,C,D,E) and set of FD's S={A->B,B->D,AD->C}.Find on the key of R

Answer:{A}

57. Suppose the relation Employee(SSN,Name,Salary,Department).Which of the followings returns all those employees with salary exceeds salary of all employees from department 1

Answer:all of the others

58. Which of the followings is not true about XML documents

Answer:XML data is presented in one or more documents

59. Suppose relation R(A,B,C,D,E) and set of FD's A->D,AD->C,C->BE.Compute {A}+

Answer:{A,D,C,B,E}

60. Database users can connect to database management system as\_\_\_\_\_\_\_\_\_\_\_\_

Answer:all of the others

61. Any Create command maybe reserved by using a \_\_\_ command

Answer:Commit

62. Suppose a relation R(A,B,C) where all attributes are numeric and we'd like to create a modifying view. Which of followings is valid?

Answer:All of the others

63. The keyword WITH CUBE is used in \_\_\_clause

Answer:GROUP BY

64.Suppose two relations R(A,B) and S(C,D),where A,B,C,D,E are interger attributes.which of following queries is invalid?

Answer:INSERT INTO R(A,B)SELECT \* FROM S

65.Which of the following is the responsibility od DTD?

Answer.All of the others.

66.Which of the following is TRUE about semi-structured data?

Answer.It is self-decribing

67.Which of following keywords can be used in well-formed XML document?

Answer.All of the others

68.WHich of following is charateristic of object relational data model?

Answer.All of the others.

69.WHich of following statement is not DML?

Answer.CREATE

70.Choose the false statement about the decomposition into 3NF?

Answer.the decomposition has the dependency preservation proverty.

71.WHich of following is a disadvantages of using index?

Answer.An index makes update operations becomes more complex.

72.WHich of following can appear in PSM procedure definition?

Answer.all of the others.

73.WHich of following statement can be used in PSM procedure definition?

Answer.all of the others.

74.WHich of following relational operations are considerably more efficient if we use the bag model?

Answer.Difference.

75.Choose a right answer

Answer.An authorization ID may be granted privileges fromm others or may give its.

76.Which of the following statements is TRUE?

Answer.Key is the super key.

77.Choose the incorrect statement.

Answer.Classes are sets of objects,with state and behaviors.

78.WHich of following is not the extended operator of relational algebrab?

Answer.Natural join operators.

79.Which of the following is TRUE about E/R model?

Answer.all of the others.

80.Which of the following is TRUE?

Answer.all of the others.

81.The ER Diagram uses three principle element types:

Answer.Entity sets,Attributes and Constraints.

82.Consider a relation with schema R(A,B,C,D) and FD's BC.Which of the following is the key of R?

Answer.BC.

83.In a tree structure,a/an\_\_\_\_\_\_has no arc out.

Answer.leaf node

84.\_\_\_\_\_\_\_connect web-clients to the database system,usually over the Internet or possibly a local connection.

Answer.Web server proccesses.

85.Data Definition language(DDL) is used to...

Answer.all of the others.

86.Which of the following has the same meaning as domain-based constraint?

Answer.Attributes-based constraint

87.The result of(UNKNOWN OR TRUE) is.

Answer.TRUE

88.Suppose an updatable view ParamountMovies is associated with Movies relations.

Answer.An update on ParamoutMovies is translated into Movies.

89.In PSM we can break out the loop by using\_\_\_\_\_\_\_ statement.

Answer.LEAVE

90.In SQL language,the command/statement that let you change the schema of a relation is:

Answer.Alter

91.Each web server process can invoke one or more\_\_\_\_\_\_\_ to handle the request.

Answer.Database server proccesses.

92.Select the right statement.

Answer.All of the others.

93.The keyword WITH ROLLUP is used in \_\_\_\_\_\_\_\_ clause

Answer.WHERE

94.Suppose a relation R has two not null numeric attributes A,B.Which of the following queries do we use to count the number of tuples in R?

Answer. All of the others

95.A atrribute A is called the key of relation R if\_\_\_\_\_\_\_

Answer.All of the others

96.In referntial integrity constraint,the referenced attribute(s) must be \_\_\_\_\_or\_\_\_\_\_

Answer.Primary key,Unique key.

97.When we define an attribute A as PRIMARY KEY of relations R,then\_\_\_\_\_\_\_

Answer.There are no two tuples that have the same as values of the A component.

98.Which of the following statement is valid?

Answer.All of the others.

99.Which of the following is the principle element type of ER diagram?

Answer.All of the others

100.Which of the following logical expressions is FALSE?

Answer.None of the others.

101.WHich of the following is definition of tables in SQL?

Answer.Tables are the kind of relation that exists int the database....

102.Which of the follwing is TRUE about weak entity set?

Answer.All of the others

103.Which of the following is not applied for the union of two relations which are bags?

Answer.We eliminate duplicated tuples

104.Which of the following is NOT a standard aggresion operator?

Answer.GROUP

105.Which of the following action doesn't violate this constraint?

Answer.Delete an exist employee.

The DBMS acts as an interface between what two components of an enterprise-class database system?

Answer Database application and the database

Which of the following projects illustrates a database being designed from existing data?

Answer A database using the Production Department's spreadsheets

Which of the following projects illustrates a database being designed as a new systems development project?

Answer A database designed to produce production reports for a new Production Department manufacturing process

Which of the following products was an early implementation of the relational model developed by E.F. Codd of IBM?

Answer DB2

The following are components of a database except

Answer reports

An application where only one user accesses the database at a given time is an example of a(n)

Answer single-user database application

Which of the following projects illustrates a database being designed as a redesign of an existing database?

Answer A database that will combine two databases currently used by the Production Department

An on-line commercial site such as Amazon.com is an example of a(n)

Answer e-commerce database application

Which of the following products was the first to implement true relational algebra in a PC DBMS?

Answer R:base

SQL stands for

Answer Structured Query Language

Because it contains a description of its own structure, a database is considered to be

Answer self-describing

The following are functions of a DBMS except

Answer creating and processing forms

Helping people keep track of things is the purpose of a(n)

Answer database

Which of the following products implemented the CODASYL DBTG model?

Answer IDMS

An Enterprise Resource Planning application is an example of a(n)

Answer multiuser database application

A DBMS that combines a DBMS and an application generator is

Answer Microsoft's Access

Which of the following is not considered to be a basic element of an enterprise-class database system?

Answer COBOL programs

The DBMS that is most difficult to use is

Answer Oracle Corporation's Oracle

1. The responsibility of Database management system is

Answer: Support the storage/Give users the ability/Allow users to create

2. Choose a incorrect statement

Answer: None of the others(DB is a collection/created/a collection)

3. Which of following is never used as data model?

Answer: None of the others(Relational/Graph-based/Hierarchical/Tree-based)

4. Data model is a notation for describing data or information. The description consists of

Answer: Structure of data/Operations on the data/Constrains on the data

5. When we define an attribute A as UNIQUE KEY of the relation R, then

Answer: The A attribute is considered/Tuple can have null/There are not 2 tuples

6. Two relation R and S are type compatible if

Answer: They have the same number of attributes/The domain of corresponding

7. A two-dimesion table of data is called a

Answer: Relation

8. Which of the following are properties of relations?

Answer: All of the others(Each attribute/There are no mutivalued/No two rows

9. A constraint between two attribute sets in a relation is called

Answer: Functional dependency

10. Given a relation R(A,B,C,D) with functional dependencies A->B, C->D. Find one key of R

Answer: {A,C}

11. Given a relation R(A,B,C,D) with functional dependencies A->C, C->D, AD->B. Which functional dependency violates BCNF condition?

Answer: C->D

12. Given a relation R(A,B,C,D). Which of following is trivial?

Answer: AB -> A/AB-->A

13. Given a relation R(A,B,C,D) with functional dependencies A->B, C->D, D->B. Compute {C}+

Answer: {B,C,D}

14. The number of entity sets that participate in a relationship is called the

Answer: Degree

15. A relationship between the instances of a single entity set is called

Answer: Binary

16. Every department has one special employee as manager, and every employee may or may not be a manger of department on which he is a member. This relationship is

Answer: One to many

Question 1

Marks: 1

Which statement is true?

Choose one answer.

a. XML documents must have a root tag

X b. All of the others

c. XML tags are case sensitive

d. XML elements must be properly nested

Answer: All of the others(XML documents/tags/elements)

Question 2

Marks: 1

In a typical OLAP application, there is a central relation or collection of data, called \_\_\_\_\_\_

Choose one answer.

x a. the fact table

b. All of the others

c. the dimension table

d. the star table

Answer: the fact table

Question 3

Marks: 1

There is a way of describing XML data, how?

Choose one answer.

x a. XML uses a DTD to describe the data

b. All of the others

c. XML uses a description node to describe data

d. XML uses XSL to describe data

Answer: XML uses a DTD to describe the data

Question 4

Marks: 1

Given relation R(A,B) that has 2 tuples (1, 2) and (3, 4); relation S(B, C, D) has 3 tuples (2, 5, 6), (4, 7, 8) and (9, 10, 11). The natural join of R and S has \_\_\_\_\_\_

Choose one answer.

x a. 2 tuples (1, 2, 5, 6) and (3, 4, 7, 8)

b. 1 tuple (1, 2, 10, 11)

c. 2 tuples (1, 2, 2, 5) and (3, 4, 4, 7)

d. 2 tuples (1, 2, 3, 4) and (5, 6, 7, 8)

Answer: 2 tuples (1, 2, 5, 6) and (3, 4, 7, 8)

Question 5

Marks: 1

Suppose a schema of relation SupplierProduct is SupplierProduct(No, SupplierID, ProductType) where No is a identifier, SupplierID is an identifer of each supplier, and ProducType is a type of product which this supplier provides. What will be returned when the following SQL statement is executed?

SELECT SupplierID FROM SupplierProduct

GROUP BY SupplierID HAVING count (\*) IN

(SELECT count (distinct ProductType) FROM SupplierProduct);

Choose one answer.

a. A listing of supplierIDs, which provide all product types

b. A listing of supplierIDs, which provide some product types

x c. A listing of supplierIDs, which provide a specified number of

product types

d. No result, the query is invalid

Answer: A listing of supplierIDs, which provide a specified number of product types

Question 6

Marks: 1

Which SQL statement is used to return only different values?

Choose one answer.

x a. SELECT DISTINCT

b. SELECT DIFFERENT

c. SELECT UNIQUE

d. SELECT DIFFERENT ALL

Answer: SELECT DISTINCT

Question 7

Marks: 1

We can turn the result of a query into a data cube by appending \_\_\_\_\_\_ to a group-by clause

Choose one answer.

a. WITH SUM

x b. WITH CUBE

c. All of the others

d. WITH AGGREGATE

Answer: WITH CUBE

Question 8

Marks: 1

Choose a well-formed XML document

Choose one answer.

a. <?xml version="1.0"?>

<to>Tove</to><from>Jani</from><heading>Reminder</heading><body>Don't

forget me this weekend!</body>

x b. <?xml version="1.0"?>

<envelope><to>Tove</to><from>Jani</from><heading>Reminder</heading><body>Don't

forget me this weekend</body></envelope>

c. <?xml version="1.0"?>

<to>Tove</to><from>Jani</from><heading>Reminder</heading><body>Don't

forget me this weekend!</body></end>

d. None of the others

Answer: <?xml version="1.0"?><envelope><to>Tove</to><from>Jani</from><heading>Reminder</heading><body>Don't forget me this weekend</body></envelope>

Question 9

Marks: 1

The multiplicity of a binary relationship could be \_\_\_\_\_

Choose one answer.

a. many–to-many

b. one-to-many

x c. All of the others

d. one-to-one

Answer: All of the others(many-to-many/one-to-many/one-to-one)

Question 10

Marks: 1

Choose the wrong statement

Choose one answer.

x a. None of the others

b. The database tier executes queries that are requested from the

application tier

c. There can be many processes in the database tier and the processes

can be distributed over many machines or all be together on one

d. Since creating connections to database takes significant time, we

normally keep a large number of connections open and allow application

processes to share the connections

Answer: None of the others(The database/There can be many/Since creating connections)

Question 11--------------------------------------------------------------------------------------------------

Marks: 1

Choose the wrong statement:

Choose one answer.

x a. The subclasses of a class in UML can be disjoint partial

b. The subclasses of a class in UML can be disjoint overlapping

c. The subclasses of a class in UML can be disjoint complete

d. The subclasses of a class in UML can be overlapping partial

Answer: The subclasses of a class in UML can be disjoint partial

Question 12 ---------------------------------

Marks: 1

Select the right statement

Choose one answer.

x a. Referential integrity constraint is also called foreign key constraint

b. A foreign key constraint can be added or deleted using the 'Alter

Table' command

x c. All of the others

d. A foreign key in one table points to a PRIMARY KEY in another table

Answer: All of the others (Referential integrity/A foreign key constraint/A foreign key in one table)

Question 13

Marks: 1

Select the right statement

Choose one answer.

a. Instead-of trigger is used to update the database tables associated

with the view instead of updating the view directly.

b. When a trigger is defined on a view, we can use INSTEAD OF in place

of BEFORE or AFTER.

x c. All of the others

d. When an event awakens the instead-of trigger, the action of the

trigger is done instead of the event itself

Answer: All of the others(Instead-of-trigger/When a trigger is defined/When an event awakens)

Question 14

Marks: 1

The database language that is used to query and modify the database is called \_\_\_\_\_\_\_

Choose one answer.

a. All of the others

b. Data Control Language

c. Data Definition Language

x d. Data Manipulation Language

Answer: Data Manipulation Language

Question 15 ---------

Marks: 1

Select the right statement

Choose one answer.

x a. Assertion is a boolean-valued SQL expression that must be true at

all times

b. Assertion is not part of the database schema

c. Once created, an assertion cannot be dropped unless you delete the

database

d. Assertion condition cannot be involved in many relations.

Answer: Assertion is a boolean-valued SQL expression that must be true at all times

Question 16

Marks: 1

When a CHECK constraint associate to many tuples on one or more relations, we must create

Choose one answer.

a. Attribute-based CHECK constraint

b. Tuple-based CHECK constraint

x c. Assertion

d. All of the others

e. Domain-based CHECK constraint

Answer: Assertion

Question 17

Marks: 1

Choose the wrong statement

Choose one answer.

a. The existence of an index on an attribute may speed up the execution

of certain queries

b. The most useful index on a relation is an index on its key.

c. None of the others

x d. An index makes update operations on a relation faster

Answer: An index makes update operations on a relation faster

Question 18 ------------------------------------------

Marks: 1

Consider the Datalog rule H(x,y) <- S(x, y) AND x >= y AND y < 3. Relation S(x, y) has 3 tuples (2, 3), (5, 3), and (3, 3). What is about H?

Choose one answer.

a. H has 2 tuples (3, 3) and (5, 3)

b. H has a tuple (3, 3)

x c. None of the others

d. H has a tuple (5, 3)

Answer: None of the others

Question 20

Marks: 1

Choose the right statement

Choose one answer.

a. Transaction is a collection of one or more operations on the

database that must be executed atomically. That is, either all

operations are performed or none of them is done.

b. In SQL, each statement is a transaction by itself.

x c. All of the others

d. SQL allows us to group several statements into a single transaction.

Answer: All of the others(Transaction is a collection/In SQL, each statement/SQL allows us to group)

Question 21--------------------------------------------------------------------------------

Marks: 1

Suppose a relation PROJECT(projectID, projectName, location, department, ProjectLo1(projectID, projectName, department) is an updatable view associated to PROJECT where location=1. Evaluate the following statement: INSERT INTO ProjectLo1 (projectID, projectName, department) VALUES (200,'ERP1.0',1);

Choose one answer.

a. The query is executed, there is new tuple (200,'ERP1.0',1) on

ProjectLo1, and new tuple (200,'ERP1.0',1,1) on Project

b. The query is executed, there is no new tuple on ProjectLo1, and new

tuple (200,'ERP1.0',null,1) on Project

c. The query is executed, there is new tuple (200,'ERP1.0',1) on

ProjectLo1, and new tuple (200,'ERP1.0',null,1) on Project

x d. The query is executed but nothing happened on Project neither on

ProjectLo1

Answer: The query is executed but nothing happened on Project neither on ProjectLo1

Question 22

Marks: 1

Suppose the theta join R3 :=R1?R2, where C is a condition that refers to attributes of R1 and R2. Which of the followings is correct?

Choose one answer.

a. Each tuple t1 of R1 connect with one tuple t2 of R2

x b. Each tuple t1 of R1 connect with some those tuple t2 of R2 that

satisfy C

c. Each tuple t1 of R1 connect with all those tuple t2 of R2 that

satifsy C

d. None of the others

Answer: Each tuple t1 of R1 connect with some those tuple t2 of R2 that satisfy C

Question 23

Marks: 1

Which of the following statement is NOT true:

Choose one answer.

a. Problems such as redundancy that occur when we try to cram too much

into a single relation are called anomalies

b. If X is a key, then X is a super key

x c. A relation can have only one key

d. A set of one or more attributes {A1, A2, ..., An} is a key for a

relation R if these attributes functionally determine all other

attributes of the relation R and these attributes must be minimal

Answer: A relation can have only one key

Question 24

Marks: 1

Which of the following is not a valid loop construct in PSM?

Choose one answer.

a. REPEAT UNTIL END REPEAT;

b. LOOP END LOOP;

c. WHILE DO END WHILE;

x d. None of the others

Answer: None of the others(REPEAT UNTIL END REPEAT/LOOP END LOOP/WHILE DO END WHILE)

Question 25

Marks: 1

Select the right statement

Choose one answer.

x a. All of the others

b. A view is a virtual table

c. Not all views are updatable

d. With updatable views, the modification is translated into an

equivalent modification on a base table

Answer: All of the others(A view is a virtual table/Not all views are updatable/With updatable views)

Question 26--------------------------------------------------------------------- tran saction

Marks: 1

Which of the following isolation levels forbids the reading of dirty data?

Choose one answer.

a. SET TRANSACTION ISOLATION LEVEL READ UNCOMMITED;

b. SET TRANSACTION ISOLATION LEVEL SERIALIZABLE;

c. SET TRANSACTION ISOLATION LEVEL READ COMMITTED;

x d. SET TRANSACTION ISOLATION LEVEL REPEATABLE READ;

Answer: SET TRANSACTION ISOLATION LEVEL REPEATABLE READ;

Question 29

Marks: 1

Which of the following is the correct definition of a procedure:

Choose one answer.

a. CREATE PROCEDURE () RETURNS ;

b. All of the others

----c. CREATE PROCEDURE () ;

d. CREATE PROCEDURE () RETURNS RETURN ;

Answer: CREATE PROCEDURE ();

Question 30

Marks: 1

Which statement is true?

Choose one answer.

a. All XML documents must have a DTD

b. All of the others

x c. All XML elements must be properly closed

d. All XML elements must be lower case

Answer: All XML elements must be properly closed

Question 31

Marks: 1

Select the wrong statement

Choose one answer.

a. None of the others

b. An index can be created in a table to find data more quickly and

efficiently

x c. A table can have only one index

d. The key for index can be any attribute or set of attributes, and

need not be the key of the relation

Answer: A table can have only one index

Question 32

Marks: 1

Consider a relation with schema R(A, B, C, D) and the set of FDs: BC -> D, D -> A, A -> B. Compute {AC}+

Choose one answer.

a. {A, C, D}

b. {A, B, C}

c. {A, C}

x d. {A, B, C, D}

Answer: {A, B, C, D}

Question 33

Marks: 1

Consider a relation with schema R(A, B, C) and the set of FDs: A -> B, A -> C, B -> A, B -> C, C -> A, C -> B, AB -> C, BC -> A, AC -> B, A -> BC, B -> AC, C -> AB. Find a minimal basis for relation R.

Choose one answer.

x a. A -> B, B -> C, C -> A

b. All of the others

c. AC -> B, BC -> A

d. AC -> B, BC -> A, A -> BC

Answer: A -> B, B -> C, C -> A

Question 34

Marks: 1

Choose the wrong statement

Choose one answer.

a. A user defined type (UDT) can be the type of a table

b. None of the others

c. A user defined type can be the type of an attribute belonging to

some table

x d. A user defined type (UDT) cannot be the type of a table

Answer: A user defined type (UDT) cannot be the type of a table

Question 35

Marks: 1

A type of an attribute that can be used as pointer to a user-defined type (UDT) is called \_\_\_\_\_\_

Choose one answer.

a. pointer types

b. None of the others

x c. reference types

d. linking types

Answer: reference types

Question 36

Marks: 1

Which of the following is not a valid privilege in SQL?

Choose one answer.

x a. PROCEDURE

b. TRIGGER

c. EXECUTE

d. REFERENCES

Answer: PROCEDURE

Question 37

Marks: 1

In the three-tier architecture, the function of the application tier is to \_\_\_\_\_\_\_

Choose one answer.

x a. Execute the business logic of the organization operating the database

b. All of the others

c. Perform queries and modifications at the request of the application

servers

d. Manage the interactions with the user

Answer: Execute the business logic of the organization operating the database

Question 38

Marks: 1

Select the right statement

Choose one answer.

x a. Updating views are allowed if query involves a single base relation

and contains a candidate key of base relation

b. Updating views are allowed if query involves aggregation or grouping

operations

c. Updating views are allowed if query involves multiple base relations.

d. All of the others

Answer: Updating views are allowed if query involves a single base relation and contains a candidate key of base relation

Question 39

Marks: 1

Given table MovieStar defined as follows: CREATE TABLE MovieStar( name CHAR(30) PRIMARY KEY, address VARCHAR(256), gender CHAR(1) CHECK (gender IN ('M','F')), birthdate DATE NOT NULL )

Which of the following query is not valid?

Choose one answer.

x a. INSERT INTO MovieStar VALUES ('Tom Cruz', '123 Little Rd, LA city',

'M', NULL);

b. INSERT INTO MovieStar(name, gender, birthday) VALUES ('Tom Cruz',

'M', '1973-09-12 00:00:00');

c. INSERT INTO MovieStar VALUES ('Tom Cruz', NULL, 'M', '1973-09-12

00:00:00');

d. INSERT INTO MovieStar(name, address, gender, birthday) VALUES ('Tom

Cruz', NULL, 'M', '1973-09-12 00:00:00');

Answer: INSERT INTO MovieStar VALUES ('Tom Cruz', '123 Little Rd, LA city', 'M', NULL);

Question 40

Marks: 1

Suppose the relation tblEmployee(EmployeeID, EmployeeName, Salary, department). Consider the following code in SQL Server 2005:

DECLARE @EmployeeID INT, @EmployeeName NVARCHAR(50), @SALARY DECIMAL(10,0);

DECLARE myCursor CURSOR FOR Select EmployeeID, EmployeeName, Salary FROM

tblEMPLOYEE WHERE department=1;

OPEN myCursor;

FETCH NEXT FROM myCursor INTO @EmployeeID,@EmployeeName,@Salary;

IF @@FETCH\_STATUS <> 0

PRINT '<<NONE>>';

WHILE @@FETCH\_STATUS = 0

BEGIN

PRINT @EmployeeID+' '+@EmployeeName+' <mailto:'+@EmployeeName+'>

'+@Salary <mailto:'+@Salary>;

FETCH NEXT FROM myCursor INTO @EmployeeID,@EmployeeName,@Salary;

END

CLOSE myCursor;

DEALLOCATE myCursor;

What happens if we execute this code?

Choose one answer.

x a. It's executed successfully, and prints out three values for each

existing employee in tblEmployee table

b. It's executed successfully, but nothing is displayed in output

c. It's executed successfully, and the output is the simple text '<>'

d. It can not be executed successfully.

Answer: It's executed successfully, and prints out three values for each existing employee in tblEmployee table

Question 41 ---------------------------

Marks: 1

Which of the following constructs can be used in PSM?

Choose at least one answer.

x a. LOOP ... END LOOP;

b. WHILE .... DO ...

c. DO ... WHILE ....

d. FOR ... DO ...

Answer: LOOP ... END LOOP;

Question 43

Marks: 1

List all the movies that have length less than 100 and were produced by

a studio name other than ‘Fox’. Select the right answer.

Choose one answer.

a. Selection NOT(length=100) AND NOT(studioName=‘Fox’)(Movies)

x b. None of the others

c. Selection length<100 AND studioName <>‘Fox’(Movies)

d. Selection NOT(length=100 OR studioName=‘Fox’)(Movies)

Answer: None of the others (Section NOT/length/NOT)

Question 44

Marks: 1

Which of the following is considered anomaly?

Choose one answer.

x a. All of the others

b. information may be changed in one tuple, but may not be changed in

other tuple(s)

c. if a set of values becomes empty, we may lose other information as a

side effect

d. information may be repeated unnecessarily in several tuples

Answer: All of the others(information may/if a set of values/information may be repeated)

Question 45

Marks: 1

Suppose the relation Employee(SSN, Fullname, Salary, SupervisorSSN).

Consider the following condition:

NOT EXISTS (SELECT \* FROM EMPLOYEE WHERE SupervisorSSN NOT IN (SELECT

SSN FROM EMPLOYEE)).

Which of the following activities may violate this condition?

Choose one answer.

a. Insert new employee

b. Delete existing emplyee

x c. All of the others

d. Update existing employee

Answer: All of the others(Insert new/Delete existing/Update existing)

Question 47

Marks: 1

Choose the right answer:

Choose one answer.

x a. Duplicate-elimination operator is used to convert a bag to a set

b. Duplicate-elimination operator is used to add duplicate tuple to a

relation

c. None of the others

d. Duplicate-elimination operator is used to convert a set to a bag

Answer: Duplicate-elimination operator is used to convert a bag to a set

Question 48

Marks: 1

Suppose relation R1 has n1 attributes and t1 tuples, relation R2 has n2 attributes and t2 tuples, then the Cartesian Product R3 = R1 x R2 has \_\_\_\_\_\_\_\_

Choose one answer.

a. n1\*n2 attributes, and t1\*t2 tuples

b. n1\*n2 attributes, and t1+t2 tuples

c. n1+n2 attributes, and t1\*t2 tuples

d. n1+n2 attributes, and t1+t2 tuples

Answer: n1+n2 attributes, and t1\*t2 tuples

Question 49

Marks: 1

Suppose relation R(A,B,C,D) with FD's A?B, B?D, CD?A. This relation is decomposed into 3 relations S1={A,D}, S2={A,C}, S3={B,C,D}. Is this decomposition lossless join?

Choose one answer.

a. Yes

x b. No

Answer: No

Question 50

Marks: 1

Which is not a correct name for an XML element?

Choose one answer.

a. &ltNote>

b. &lt1dollar>

c. All of the others

d. &lthav1>

Answer: All of the others(&ItNode>/&It1dollar>/&Ithav1>

Question 53

Marks: 1

The degree of a relationship is \_\_\_\_\_\_

Choose one answer.

a. The number of binary relationships

b. The number of attributes in a relation

c. The number of entities involved with the relationship

d. The number of tuples in a relation

Answer: The number of entities involved with the relationship

Data modeling may be the most important part of the systems development process because:

answer: Data characteristics are important in the design of programs and other systems components

A business rule:

answer: All of the above: Define, Assert, Controls

Business rules should be determined primarily by interviewing executives in the business.

answer: False

The common types of entities are:

answer: All:Strong, Weak, Associative

A property or characteristic of an entity type that is of interest to the organization is called a(n):

answer: attribute

A relationship is an association between attributes.

answer: False

A good data name should be:

answer: readable, unique, and repeatable

A multivalued attribute is an attribute that is common to many entities.

answer: False

A person's name, birthday, and social security number are all examples of:

answer: Attributes

A(n) \_\_\_\_\_ is the relationship between a weak entity type and its owner.

answer: identifying relationship

The \_\_\_\_\_ specifies the number of instances of one entity that can (or must) be associated with each instance of another entity.

answer: cardinality constraint

The degree of a relationship is the number of entity types that participate in a relationship.

answer: True

A ternary relationship is a simultaneous relationship between more than three entity types.

answer: False

Which is NOT a basic construct of an E-R model?

answer: Identifiers

An attribute that can be calculated from related attribute values is called a \_\_\_\_\_attribute

answer: derived

An attribute that uniquely identifies an entity, and consists of a composite attribute is called a(n):

answer: Composite identifier

An entity that associates the instances of one or more entity types and contains attributes specific to the relationships is called a(n):

answer: Associative entity

The number of entity types that participate in a relationship is called the:

answer: Degree

A relationship between the instances of a single entity type is called a \_\_\_\_\_relationship.

answer: Unary

An entity type name should always be a singular noun.

answer: True

A simultaneous relationship among the instances of three entity types is called a \_\_\_\_\_relationship.

answer: ternary

A \_\_\_\_\_ specifies the number of instances of one entity that can be associated with each instance of another entity.

answer: Cardinality constraint

A relationship where the minimum and maximum cardinality are both one is a(n) \_\_\_\_\_ relationship.

answer: Mandatory one

A mutually exclusive relationship is one in which:

answer: An entity instance can participate in only one of several alternative relationships

A student can attend five classes, each with a different professor. Each professor has 30 students. The relationship of students to professors is a \_\_\_\_\_ relationship.

answer: Many-to-many

The total quiz points for a student for an entire semester is a(n) \_\_\_\_\_ attribute.

answer: Derived

A join operation:

answer: causes two disparate tables to be combined...

Data Definition language (DDL) is used to:

answer: declare database schemas

A database is an organized collection of \_\_\_ related data.

answer: logically

The relation data model consists of which component?

answer: All: Data integrity, Data manipulation, Data structure

A rule that CANNOT be violate by database users is called a:

answer: constraint

In the SQL language, the\_\_\_ statement is usedto creat database definitions

answer: create table

Which of the following types of data can be stored in adatabase

answer: All: Voice, letters, numbers

Given a relation R(A,B,C,D) with dependencies A-->C, C->D. Which of the followings doesn't hold in R?

answer: A->C

What is the property that good decomposition must have?

answer: All: Elimination of anomalies, Recoverability of information, Preservation of dependencies

Given a relation R(A,B,C,D) with functional dependencies A->BC, C->D,D->A. Find one key of R

answer: {A}

Functional dependency is a constraint on \_\_\_\_\_\_\_\_\_\_

answer: Two sets of attributes of a relation

One attribute is called prime if \_\_\_\_\_\_\_\_\_\_

answer: It is a member of key

Choose the false statement about the decomposition into BCNF?

answer: The decomposition has the dependency preservation property

Choose a right statement

answer: If X is a key, then X is a super key

The principle strategy to convert subclasses to relations is \_\_\_\_\_\_\_\_\_

answer: all: Follow, Treat, Use

Choose a wrong answer

answer: UML offers multi-way relationships

Choose a right answer

answer: all: the value, Entity set, Relationship

When we say one class has many students, and a student is a member of one class, we mean that the multiplicity of this relationship from class entity set to student entity set is \_\_\_\_\_\_\_\_\_

answer: One - many

An attribute (or attributes) that uniquely identifies each row in a relation is called a/an:

answer: primary key

Choose a wrong statement

answer: E/R model represents both the structure of data and the operations on data

The number of entity types that participate in a relationship is called the :

answer: degree

An attribute of the relation R to which the ? is applied is called

answer: Grouping attribute

To convert a bag to a set, we use \_\_\_\_\_\_\_\_\_ operator

answer: d

Suppose R(A,B,C) is bag, S=sA>B(R). Choose a right answer

answer: S has the same schema as R, and S has less or equal tuples than R has

Suppose a relation R(A,B,C) as a bag, and a relation S=pA,B(d(R)) as a bag, too. R has 4 tuples (1,2,2), (1,3,2), (1,2,2), and (1,2,3). S has\_\_\_\_\_\_\_\_\_\_ tuples

answer: 3

Suppose a relation R(A,B) has 4 tuples (1,2), (2,3), (1,1), (2,4). A result of ?A,SUM(B)?SUM(R) is \_\_\_\_\_\_\_\_\_\_

answer: A relation has 2 tuples (1,3), (2,7)

Suppose a relation R(A,B) and S(B,C) as a bags. R has 2 tuples (1,2),(1,4) and S has 3 tuples (2,3), (4,5) and (4,5). The theta-join R ? \_R.B<S.B S has \_\_\_\_\_\_\_\_\_\_ tuples

answer: 2

Choose one answer.

answer: This operation is valid and the result has three tuples

The result of ((10<NULL) OR TRUE) AND (UNKNOWN OR FALSE) is

answer: UNKNOWN

Which of following is not part of Data Manipulation Language (DML)?

answer: CREATE statement

Suppose a relation R has two attributes A and B. Choose a valid query

answer: SELECT A, B, COUNT(\*) FROM R GROUP BY A, B

Choose the right statement

answer: all: Sub-queries can appear, return a single, return relations

Which of following condition is TRUE

answer: (UNKNOWN OR TRUE) OR (UNKNOWN AND FALSE)

Suppose a relation R has two numeric non-null attributes A, B. Which of the following queries do we use to count the number of tuples in R ?

answer: COUNT(\*) COUNT(A) COUNT(B)

Suppose a relation S has three numeric attributes A, B, and C. Choose a valid query

answer: SELECT A, SUM(\*) FROM S GROUP BY A HAVING COUNT(B)<20

NULL value is \_\_\_\_\_\_\_\_\_\_

answer: all: unknown, inapplicable, withheld

Choose a wrong answer

answer:Every relation has only one index

Choose a right answer

answer: A virtual view is defined by an expression like a query

Given the relation Movies(title, year, length, genre, studioName).Select the right query to create a view with the titles and studio names of all movies that were produced in 1980

answer:CREATE VIEW OldMovies AS SELECT title, studioName FROM Movies where year=1980

When a user makes contact, a \_\_\_\_\_\_\_\_\_\_ response to the request, and the user becomes a client of this \_\_\_\_\_\_\_\_\_\_ process.

answer: webserver, webserver

Function parameters may be of mode \_\_\_\_\_\_\_\_\_\_

answer: IN

Which of the followings is right about well-formed XML documents?

answer: All: involve, have, begin

The DBMS acts as an interface between what two components of an enterprise-class database system?

answer: Database application and the database

Which of the following projects illustrates a database being designed from existing data?

answer: A database using the Production Department's spreadsheets

Which of the following projects illustrates a database being designed as a new systems development project?

answer: A database designed to produce production reports for a new Production Department manufacturing process

Which of the following products was an early implementation of the relational model developed by E.F. Codd of IBM?

answer: DB2

The following are components of a database except \_\_\_\_\_\_\_\_ .

answer: reports

An application where only one user accesses the database at a given time is an example of a(n) \_\_\_\_\_\_\_\_ .

answer: multiuser database application

Which of the following projects illustrates a database being designed as a redesign of an existing database?

answer: A database that will combine two databases currently used by the Production Department

An on-line commercial site such as Amazon.com is an example of a(n) \_\_\_\_\_\_\_\_ .

answer: e-commerce database application

Which of the following products was the first to implement true relational algebra in a PC DBMS?

answer: R:base

SQL stands for \_\_\_\_\_\_\_\_ .

answer: Structured Query Language

Because it contains a description of its own structure, a database is considered to be \_\_\_\_\_\_\_\_ .

answer: self-describing

The following are functions of a DBMS except \_\_\_\_\_\_\_\_ .

answer: creating and processing forms

Helping people keep track of things is the purpose of a(n) \_\_\_\_\_\_\_\_ .

answer: database

Which of the following products implemented the CODASYL DBTG model?

answer: IDMS

An Enterprise Resource Planning application is an example of a(n) \_\_\_\_\_\_\_\_ .

answer: multiuser database application

A DBMS that combines a DBMS and an application generator is \_\_\_\_\_\_\_\_ .

answer: Microsoft's Access

You have run an SQL statement that asked the DBMS to display data in a table named USER\_TABLES. The results include columns of data labeled "TableName," "NumberOfColumns" and "PrimaryKey." You are looking at \_\_\_\_\_\_\_\_ .

answer: metadata

Which of the following is not considered to be a basic element of an enterprise-class database system?

answer: COBOL programs

The DBMS that is most difficult to use is \_\_\_\_\_\_\_\_ .

answer: Oracle Corporation's Oracle

The relational database model was created by E.F. Codd.

answer: True

A database is called "self-describing" because it contains a description of itself

answer: True

In a database, data is stored in spreadsheets which have rows and columns.

answer: False

A database has data and relationships.

answer: True

Databases create information.

answer: True

One of the reasons why OODBMSs have not been widely used for business information systems is that OOP is obsolete.

answer: False

A database administrator designs, constructs, and manages the databases.

answer: True

In an enterprise-class database system, business users interact directly with database applications, which directly access the database data.

answer: False

Applications are programs that interact directly with the database.

answer: False

The purpose of a database is to help people stop using spreadsheets.

answer: False

Microsoft Access is an enterprise-class database product.

answer: False

Structured Query Language (SQL) is an internationally recognized standard language that is understood by all commercial database management system products.

answer: True

The XML family of standards is very important in database processing today.

answer: True

A database has a built-in capability to create, process and administer itself.

answer: False

Enterprise Resource Planning (ERP) is an example of a single user database.

answer: False

Prior to 1970, all data was stored in separate files, which were mostly stored on reels of magnetic tape.

answer: True

A database design may be based on existing data.

answer: True

The DBMS ranked as being the "easiest to use" in the text is Oracle Corporation's Oracle.

answer: False

Database applications are seldom intended for use by a single user.

answer: False

The DBMS ranked as being the "hardest to use" in the text is Microsoft's SQL Server.

answer: False

In an Enterprise-class database system, business users interact directly with database applications that interact with the DBMS, which directly accesses the database data.

answer: True

Suppose R and S are bags, and t is the tuple that appears n-times and m-times in R and S (n=0, m=0).How many time dose t tupe appear in

answer:In {R^S}, t appears (n + m) times, In {R U S}, t appears MIN(n, m) times, In {R \ S}, t appears MAX(0, n - m) times

Arithmetic operators on NULL values will return

answer: a NULL value

Comparisons with NULL values will return

answer: UNKNOWN

Choose the false statement about the decomposition in to BCNF

answer: the relations of the...

\_\_\_is the framework under which data ay exist and SQL operations on data may beexecuted

answer: SQL environment

which of the following is the extended operator of relational algebra?

answer: All: Outerijoins, Grouping, Duplicate

Which statement is true regarding subqueries?

answer: all: The NOT, = ANY, the IN

In ODL, if we have a may- one relationship from class C to class D,then\_\_

answer: Inclass C, the type of the relationship is just D, while the type of the relationship in D is SET

which of the following statement is invalid?

answer:if A->B, B->->C hold in relation R, then A=>Vholds,too

which of the following is applied in PSM

answer:All: Cursors, queries, Subqueries

Which of the followings may be a part of well-formed XML document?

answer: all

sUPPOSE THE REALTION sale(ITEM, CUSTOMER, quantity, price) with more than billion tupeles from the large database. We try to providea rapid random and sequential access to this table by\_\_\_

answer: Creating some indicies

Which of the followings is characteristic of UML?

answer: Classes are sets of objects, with satate and behaviors

Suppose R(A,B) and S(B,C) are bags. R has two tuples (1,2), (2,30. S hasthree tuples (1,3), (3,2), (2,1). Evalue the following relational expression: gA,SUM(C)-> SUMC(R\*S), where \* denotes the natural join

answer: the result relation has two tuples (1,1) and (2,2)

Which of the followings is belong to DML?

answer: GRANT

The responsibility of Database management system is\_\_

answer: All: Allowusers, Support, Give

Which of the following Datalog rules is unsafe?

answer: Q(x,y,z)<- U(x,y) AND T(x,y) AND NOT T(x,z)

Which of the following statement is used to delete all data from table EMPLOYEES except it's schema?

answer: DELETE FROM EMPLOYEES

Which of the followings has the same meaning as attribute-based constraint?

answer: Entity-based constraint

When we define an attribute A as PRIMARY KEY of relation R, then\_\_

answer: All: tuple must be not, there are no two, no more primary key...

An attributesin\_\_\_are only integers and character strings

answer: ODL

how can we convert the subclass structure to relations?

answer: Contruct a single relation for whole hierarchy ofenitity sets

Choose a right answer

answer: A virtual view is defined by an expression like a query

The most useful index on a relation is an index on its key. This is because:

answer: Queries in which a value for the key is ...

Which of the following is not a benefit of using views?

answer: None of the others

Suppose an updatable view FoxMovies is associated with Movies relation. Choose a right answer

answer: All: An update on Movies is translated into FoxMovies va ngc lai,Drop FoxMovies does not affect Movies

A clustering index is \_\_\_\_\_\_

answer:An index that is defined on non-key field(s) and there can be more than one record corresponding to a value of the indexing field

Choose the invalid statement

answer: Views allow each user to have his or her own view of the database, which creates data redundancy

Suppose a relation R(A,B,C) where all attributes are numeric. Choose a valid query to create an updatable view

answer: None of the others

Which of the fllowing statement is true about User Defined Type?

answer: All: An UDT, the 0-0, many relations

Which of the following is true about SQL session?

answer: the sessions lasts as long as the conection that created it

Which of the followings is false about weak entity set?

answer: THe key for a weak

What do we say a bout views?

answer: All: droping : a base table, a view, views dont exist

Which of the followings is right about attributes on XML documents?

answer: DTD is a grammar

Which of the followings evolves to information integration?

answer: None of other

Which of the followings was the first ever used for data model?

answer: File system

An A attribute is called the key of relation R if\_\_\_

answer: All: it functionally, Its closure, there are no

Where cannot we use PSM procedures

answer: None of the others

View is\_\_\_\_

answer: None of the others

\_\_\_manage the interations with the user

answer: the webserver-tier processes

Which of the followings is false about E/R model?

answer: attributes are very simply types...

Which of the following statement is true?

answer: A recursion in Datalog can be expressed in relational algebra

Which of the followings doesn't take the key's condition 'no two tuples aree on all attributes f key'?

answer: Foregn key

Suppose relation R(A,B,C,D), and set of FD's S={A->B, B->D,AD->C}. find one key of R

answer: {A}

Which of the followings is not true about XML documents?

answer: XML data is presented in one or more document

Suppose relation R(A,B,C,D,E) and se of FDs A->D, AD->C, C->BE. Compute {A}+

answer: {A,B,C,D,E}

database users can connect to database management system as

answer: all: Database designer, Database adinistrator, Database end-user

1. The responsibility of Database management system is

Answer: Support the storage/Give users the ability/Allow users to create

2. Choose a incorrect statement

Answer: None of the others(DB is a collection/created/a collection)

3. Which of following is never used as data model?

Answer: None of the others(Relational/Graph-based/Hierarchical/Tree-based)

4. Data model is a notation for describing data or information. The description consists of

Answer: Structure of data/Operations on the data/Constrains on the data

5. When we define an attribute A as UNIQUE KEY of the relation R, then

Answer: The A attribute is considered/Tuple can have null/There are not 2 tuples

6. Two relation R and S are type compatible if

Answer: They have the same number of attributes/The domain of corresponding

7. A two-dimesion table of data is called a

Answer: Relation

8. Which of the following are properties of relations?

Answer: All of the others(Each attribute/There are no mutivalued/No two rows

9. A constraint between two attribute sets in a relation is called

Answer: Functional dependency

10. Given a relation R(A,B,C,D) with functional dependencies A->B, C->D. Find one key of R

Answer: {A,C}

11. Given a relation R(A,B,C,D) with functional dependencies A->C, C->D, AD->B. Which functional dependency violates BCNF condition?

Answer: C->D

12. Given a relation R(A,B,C,D). Which of following is trivial?

Answer: AB -> A/AB-->A

13. Given a relation R(A,B,C,D) with functional dependencies A->B, C->D, D->B. Compute {C}+

Answer: {B,C,D}

14. The number of entity sets that participate in a relationship is called the

Answer: Degree

15. A relationship between the instances of a single entity set is called

Answer: Binary

16. Every department has one special employee as manager, and every employee may or may not be a manger of department on which he is a member. This relationship is

Answer: One to many

Question 1

Marks: 1

Which statement is true?

Choose one answer.

a. XML documents must have a root tag

X b. All of the others

c. XML tags are case sensitive

d. XML elements must be properly nested

Answer: All of the others(XML documents/tags/elements)

Question 2

Marks: 1

In a typical OLAP application, there is a central relation or collection of data, called \_\_\_\_\_\_

Choose one answer.

x a. the fact table

b. All of the others

c. the dimension table

d. the star table

Answer: the fact table

Question 3

Marks: 1

There is a way of describing XML data, how?

Choose one answer.

x a. XML uses a DTD to describe the data

b. All of the others

c. XML uses a description node to describe data

d. XML uses XSL to describe data

Answer: XML uses a DTD to describe the data

Question 4

Marks: 1

Given relation R(A,B) that has 2 tuples (1, 2) and (3, 4); relation S(B, C, D) has 3 tuples (2, 5, 6), (4, 7, 8) and (9, 10, 11). The natural join of R and S has \_\_\_\_\_\_

Choose one answer.

x a. 2 tuples (1, 2, 5, 6) and (3, 4, 7, 8)

b. 1 tuple (1, 2, 10, 11)

c. 2 tuples (1, 2, 2, 5) and (3, 4, 4, 7)

d. 2 tuples (1, 2, 3, 4) and (5, 6, 7, 8)

Answer: 2 tuples (1, 2, 5, 6) and (3, 4, 7, 8)

Question 5

Marks: 1

Suppose a schema of relation SupplierProduct is SupplierProduct(No, SupplierID, ProductType) where No is a identifier, SupplierID is an identifer of each supplier, and ProducType is a type of product which this supplier provides. What will be returned when the following SQL statement is executed?

SELECT SupplierID FROM SupplierProduct

GROUP BY SupplierID HAVING count (\*) IN

(SELECT count (distinct ProductType) FROM SupplierProduct);

Choose one answer.

a. A listing of supplierIDs, which provide all product types

b. A listing of supplierIDs, which provide some product types

x c. A listing of supplierIDs, which provide a specified number of

product types

d. No result, the query is invalid

Answer: A listing of supplierIDs, which provide a specified number of product types

Question 6

Marks: 1

Which SQL statement is used to return only different values?

Choose one answer.

x a. SELECT DISTINCT

b. SELECT DIFFERENT

c. SELECT UNIQUE

d. SELECT DIFFERENT ALL

Answer: SELECT DISTINCT

Question 7

Marks: 1

We can turn the result of a query into a data cube by appending \_\_\_\_\_\_ to a group-by clause

Choose one answer.

a. WITH SUM

x b. WITH CUBE

c. All of the others

d. WITH AGGREGATE

Answer: WITH CUBE

Question 8

Marks: 1

Choose a well-formed XML document

Choose one answer.

a. <?xml version="1.0"?>

<to>Tove</to><from>Jani</from><heading>Reminder</heading><body>Don't

forget me this weekend!</body>

x b. <?xml version="1.0"?>

<envelope><to>Tove</to><from>Jani</from><heading>Reminder</heading><body>Don't

forget me this weekend</body></envelope>

c. <?xml version="1.0"?>

<to>Tove</to><from>Jani</from><heading>Reminder</heading><body>Don't

forget me this weekend!</body></end>

d. None of the others

Answer: <?xml version="1.0"?><envelope><to>Tove</to><from>Jani</from><heading>Reminder</heading><body>Don't forget me this weekend</body></envelope>

Question 9

Marks: 1

The multiplicity of a binary relationship could be \_\_\_\_\_

Choose one answer.

a. many–to-many

b. one-to-many

x c. All of the others

d. one-to-one

Answer: All of the others(many-to-many/one-to-many/one-to-one)

Question 10

Marks: 1

Choose the wrong statement

Choose one answer.

x a. None of the others

b. The database tier executes queries that are requested from the

application tier

c. There can be many processes in the database tier and the processes

can be distributed over many machines or all be together on one

d. Since creating connections to database takes significant time, we

normally keep a large number of connections open and allow application

processes to share the connections

Answer: None of the others(The database/There can be many/Since creating connections)

Question 11--------------------------------------------------------------------------------------------------

Marks: 1

Choose the wrong statement:

Choose one answer.

x a. The subclasses of a class in UML can be disjoint partial

b. The subclasses of a class in UML can be disjoint overlapping

c. The subclasses of a class in UML can be disjoint complete

d. The subclasses of a class in UML can be overlapping partial

Answer: The subclasses of a class in UML can be disjoint partial

Question 12 ---------------------------------

Marks: 1

Select the right statement

Choose one answer.

x a. Referential integrity constraint is also called foreign key constraint

b. A foreign key constraint can be added or deleted using the 'Alter

Table' command

x c. All of the others

d. A foreign key in one table points to a PRIMARY KEY in another table

Answer: All of the others (Referential integrity/A foreign key constraint/A foreign key in one table)

Question 13

Marks: 1

Select the right statement

Choose one answer.

a. Instead-of trigger is used to update the database tables associated

with the view instead of updating the view directly.

b. When a trigger is defined on a view, we can use INSTEAD OF in place

of BEFORE or AFTER.

x c. All of the others

d. When an event awakens the instead-of trigger, the action of the

trigger is done instead of the event itself

Answer: All of the others(Instead-of-trigger/When a trigger is defined/When an event awakens)

Question 14

Marks: 1

The database language that is used to query and modify the database is called \_\_\_\_\_\_\_

Choose one answer.

a. All of the others

b. Data Control Language

c. Data Definition Language

x d. Data Manipulation Language

Answer: Data Manipulation Language

Question 15 ---------

Marks: 1

Select the right statement

Choose one answer.

x a. Assertion is a boolean-valued SQL expression that must be true at

all times

b. Assertion is not part of the database schema

c. Once created, an assertion cannot be dropped unless you delete the

database

d. Assertion condition cannot be involved in many relations.

Answer: Assertion is a boolean-valued SQL expression that must be true at all times

Question 16

Marks: 1

When a CHECK constraint associate to many tuples on one or more relations, we must create

Choose one answer.

a. Attribute-based CHECK constraint

b. Tuple-based CHECK constraint

x c. Assertion

d. All of the others

e. Domain-based CHECK constraint

Answer: Assertion

Question 17

Marks: 1

Choose the wrong statement

Choose one answer.

a. The existence of an index on an attribute may speed up the execution

of certain queries

b. The most useful index on a relation is an index on its key.

c. None of the others

x d. An index makes update operations on a relation faster

Answer: An index makes update operations on a relation faster

Question 18 ------------------------------------------

Marks: 1

Consider the Datalog rule H(x,y) <- S(x, y) AND x >= y AND y < 3. Relation S(x, y) has 3 tuples (2, 3), (5, 3), and (3, 3). What is about H?

Choose one answer.

a. H has 2 tuples (3, 3) and (5, 3)

b. H has a tuple (3, 3)

x c. None of the others

d. H has a tuple (5, 3)

Answer: None of the others

Question 20

Marks: 1

Choose the right statement

Choose one answer.

a. Transaction is a collection of one or more operations on the

database that must be executed atomically. That is, either all

operations are performed or none of them is done.

b. In SQL, each statement is a transaction by itself.

x c. All of the others

d. SQL allows us to group several statements into a single transaction.

Answer: All of the others(Transaction is a collection/In SQL, each statement/SQL allows us to group)

Question 21--------------------------------------------------------------------------------

Marks: 1

Suppose a relation PROJECT(projectID, projectName, location, department, ProjectLo1(projectID, projectName, department) is an updatable view associated to PROJECT where location=1. Evaluate the following statement: INSERT INTO ProjectLo1 (projectID, projectName, department) VALUES (200,'ERP1.0',1);

Choose one answer.

a. The query is executed, there is new tuple (200,'ERP1.0',1) on

ProjectLo1, and new tuple (200,'ERP1.0',1,1) on Project

b. The query is executed, there is no new tuple on ProjectLo1, and new

tuple (200,'ERP1.0',null,1) on Project

c. The query is executed, there is new tuple (200,'ERP1.0',1) on

ProjectLo1, and new tuple (200,'ERP1.0',null,1) on Project

x d. The query is executed but nothing happened on Project neither on

ProjectLo1

Answer: The query is executed but nothing happened on Project neither on ProjectLo1

Question 22

Marks: 1

Suppose the theta join R3 :=R1?R2, where C is a condition that refers to attributes of R1 and R2. Which of the followings is correct?

Choose one answer.

a. Each tuple t1 of R1 connect with one tuple t2 of R2

x b. Each tuple t1 of R1 connect with some those tuple t2 of R2 that

satisfy C

c. Each tuple t1 of R1 connect with all those tuple t2 of R2 that

satifsy C

d. None of the others

Answer: Each tuple t1 of R1 connect with some those tuple t2 of R2 that satisfy C

Question 23

Marks: 1

Which of the following statement is NOT true:

Choose one answer.

a. Problems such as redundancy that occur when we try to cram too much

into a single relation are called anomalies

b. If X is a key, then X is a super key

x c. A relation can have only one key

d. A set of one or more attributes {A1, A2, ..., An} is a key for a

relation R if these attributes functionally determine all other

attributes of the relation R and these attributes must be minimal

Answer: A relation can have only one key

Question 24

Marks: 1

Which of the following is not a valid loop construct in PSM?

Choose one answer.

a. REPEAT UNTIL END REPEAT;

b. LOOP END LOOP;

c. WHILE DO END WHILE;

x d. None of the others

Answer: None of the others(REPEAT UNTIL END REPEAT/LOOP END LOOP/WHILE DO END WHILE)

Question 25

Marks: 1

Select the right statement

Choose one answer.

x a. All of the others

b. A view is a virtual table

c. Not all views are updatable

d. With updatable views, the modification is translated into an

equivalent modification on a base table

Answer: All of the others(A view is a virtual table/Not all views are updatable/With updatable views)

Question 26--------------------------------------------------------------------- tran saction

Marks: 1

Which of the following isolation levels forbids the reading of dirty data?

Choose one answer.

a. SET TRANSACTION ISOLATION LEVEL READ UNCOMMITED;

b. SET TRANSACTION ISOLATION LEVEL SERIALIZABLE;

c. SET TRANSACTION ISOLATION LEVEL READ COMMITTED;

x d. SET TRANSACTION ISOLATION LEVEL REPEATABLE READ;

Answer: SET TRANSACTION ISOLATION LEVEL REPEATABLE READ;

Question 29

Marks: 1

Which of the following is the correct definition of a procedure:

Choose one answer.

a. CREATE PROCEDURE () RETURNS ;

b. All of the others

----c. CREATE PROCEDURE () ;

d. CREATE PROCEDURE () RETURNS RETURN ;

Answer: CREATE PROCEDURE ();

Question 30

Marks: 1

Which statement is true?

Choose one answer.

a. All XML documents must have a DTD

b. All of the others

x c. All XML elements must be properly closed

d. All XML elements must be lower case

Answer: All XML elements must be properly closed

Question 31

Marks: 1

Select the wrong statement

Choose one answer.

a. None of the others

b. An index can be created in a table to find data more quickly and

efficiently

x c. A table can have only one index

d. The key for index can be any attribute or set of attributes, and

need not be the key of the relation

Answer: A table can have only one index

Question 32

Marks: 1

Consider a relation with schema R(A, B, C, D) and the set of FDs: BC -> D, D -> A, A -> B. Compute {AC}+

Choose one answer.

a. {A, C, D}

b. {A, B, C}

c. {A, C}

x d. {A, B, C, D}

Answer: {A, B, C, D}

Question 33

Marks: 1

Consider a relation with schema R(A, B, C) and the set of FDs: A -> B, A -> C, B -> A, B -> C, C -> A, C -> B, AB -> C, BC -> A, AC -> B, A -> BC, B -> AC, C -> AB. Find a minimal basis for relation R.

Choose one answer.

x a. A -> B, B -> C, C -> A

b. All of the others

c. AC -> B, BC -> A

d. AC -> B, BC -> A, A -> BC

Answer: A -> B, B -> C, C -> A

Question 34

Marks: 1

Choose the wrong statement

Choose one answer.

a. A user defined type (UDT) can be the type of a table

b. None of the others

c. A user defined type can be the type of an attribute belonging to

some table

x d. A user defined type (UDT) cannot be the type of a table

Answer: A user defined type (UDT) cannot be the type of a table

Question 35

Marks: 1

A type of an attribute that can be used as pointer to a user-defined type (UDT) is called \_\_\_\_\_\_

Choose one answer.

a. pointer types

b. None of the others

x c. reference types

d. linking types

Answer: reference types

Question 36

Marks: 1

Which of the following is not a valid privilege in SQL?

Choose one answer.

x a. PROCEDURE

b. TRIGGER

c. EXECUTE

d. REFERENCES

Answer: PROCEDURE

Question 37

Marks: 1

In the three-tier architecture, the function of the application tier is to \_\_\_\_\_\_\_

Choose one answer.

x a. Execute the business logic of the organization operating the database

b. All of the others

c. Perform queries and modifications at the request of the application

servers

d. Manage the interactions with the user

Answer: Execute the business logic of the organization operating the database

Question 38

Marks: 1

Select the right statement

Choose one answer.

x a. Updating views are allowed if query involves a single base relation

and contains a candidate key of base relation

b. Updating views are allowed if query involves aggregation or grouping

operations

c. Updating views are allowed if query involves multiple base relations.

d. All of the others

Answer: Updating views are allowed if query involves a single base relation and contains a candidate key of base relation

Question 39

Marks: 1

Given table MovieStar defined as follows: CREATE TABLE MovieStar( name CHAR(30) PRIMARY KEY, address VARCHAR(256), gender CHAR(1) CHECK (gender IN ('M','F')), birthdate DATE NOT NULL )

Which of the following query is not valid?

Choose one answer.

x a. INSERT INTO MovieStar VALUES ('Tom Cruz', '123 Little Rd, LA city',

'M', NULL);

b. INSERT INTO MovieStar(name, gender, birthday) VALUES ('Tom Cruz',

'M', '1973-09-12 00:00:00');

c. INSERT INTO MovieStar VALUES ('Tom Cruz', NULL, 'M', '1973-09-12

00:00:00');

d. INSERT INTO MovieStar(name, address, gender, birthday) VALUES ('Tom

Cruz', NULL, 'M', '1973-09-12 00:00:00');

Answer: INSERT INTO MovieStar VALUES ('Tom Cruz', '123 Little Rd, LA city', 'M', NULL);

Question 40

Marks: 1

Suppose the relation tblEmployee(EmployeeID, EmployeeName, Salary, department). Consider the following code in SQL Server 2005:

DECLARE @EmployeeID INT, @EmployeeName NVARCHAR(50), @SALARY DECIMAL(10,0);

DECLARE myCursor CURSOR FOR Select EmployeeID, EmployeeName, Salary FROM

tblEMPLOYEE WHERE department=1;

OPEN myCursor;

FETCH NEXT FROM myCursor INTO @EmployeeID,@EmployeeName,@Salary;

IF @@FETCH\_STATUS <> 0

PRINT '<<NONE>>';

WHILE @@FETCH\_STATUS = 0

BEGIN

PRINT @EmployeeID+' '+@EmployeeName+' <mailto:'+@EmployeeName+'>

'+@Salary <mailto:'+@Salary>;

FETCH NEXT FROM myCursor INTO @EmployeeID,@EmployeeName,@Salary;

END

CLOSE myCursor;

DEALLOCATE myCursor;

What happens if we execute this code?

Choose one answer.

x a. It's executed successfully, and prints out three values for each

existing employee in tblEmployee table

b. It's executed successfully, but nothing is displayed in output

c. It's executed successfully, and the output is the simple text '<>'

d. It can not be executed successfully.

Answer: It's executed successfully, and prints out three values for each existing employee in tblEmployee table

Question 41 ---------------------------

Marks: 1

Which of the following constructs can be used in PSM?

Choose at least one answer.

x a. LOOP ... END LOOP;

b. WHILE .... DO ...

c. DO ... WHILE ....

d. FOR ... DO ...

Answer: LOOP ... END LOOP;

Question 43

Marks: 1

List all the movies that have length less than 100 and were produced by

a studio name other than ‘Fox’. Select the right answer.

Choose one answer.

a. Selection NOT(length=100) AND NOT(studioName=‘Fox’)(Movies)

x b. None of the others

c. Selection length<100 AND studioName <>‘Fox’(Movies)

d. Selection NOT(length=100 OR studioName=‘Fox’)(Movies)

Answer: None of the others (Section NOT/length/NOT)

Question 44

Marks: 1

Which of the following is considered anomaly?

Choose one answer.

x a. All of the others

b. information may be changed in one tuple, but may not be changed in

other tuple(s)

c. if a set of values becomes empty, we may lose other information as a

side effect

d. information may be repeated unnecessarily in several tuples

Answer: All of the others(information may/if a set of values/information may be repeated)

Question 45

Marks: 1

Suppose the relation Employee(SSN, Fullname, Salary, SupervisorSSN).

Consider the following condition:

NOT EXISTS (SELECT \* FROM EMPLOYEE WHERE SupervisorSSN NOT IN (SELECT

SSN FROM EMPLOYEE)).

Which of the following activities may violate this condition?

Choose one answer.

a. Insert new employee

b. Delete existing emplyee

x c. All of the others

d. Update existing employee

Answer: All of the others(Insert new/Delete existing/Update existing)

Question 47

Marks: 1

Choose the right Answer:

Choose one answer.

x a. Duplicate-elimination operator is used to convert a bag to a set

b. Duplicate-elimination operator is used to add duplicate tuple to a

relation

c. None of the others

d. Duplicate-elimination operator is used to convert a set to a bag

Answer: Duplicate-elimination operator is used to convert a bag to a set

Question 48

Marks: 1

Suppose relation R1 has n1 attributes and t1 tuples, relation R2 has n2 attributes and t2 tuples, then the Cartesian Product R3 = R1 x R2 has \_\_\_\_\_\_\_\_

Choose one answer.

a. n1\*n2 attributes, and t1\*t2 tuples

b. n1\*n2 attributes, and t1+t2 tuples

x c. n1+n2 attributes, and t1\*t2 tuples

d. n1+n2 attributes, and t1+t2 tuples

Answer: n1+n2 attributes, and t1\*t2 tuples

Question 49

Marks: 1

Suppose relation R(A,B,C,D) with FD's A?B, B?D, CD?A. This relation is decomposed into 3 relations S1={A,D}, S2={A,C}, S3={B,C,D}. Is this decomposition lossless join?

Choose one answer.

a. Yes

x b. No

Answer: No

Question 50

Marks: 1

Which is not a correct name for an XML element?

Choose one answer.

a. &ltNote>

b. &lt1dollar>

xc. All of the others

d. &lthav1>

Answer: All of the others(&ItNode>/&It1dollar>/&Ithav1>

Question 53

Marks: 1

The degree of a relationship is \_\_\_\_\_\_

Choose one answer.

a. The number of binary relationships

b. The number of attributes in a relation

-c. The number of entities involved with the relationship

d. The number of tuples in a relation

Answer: The number of entities involved with the relationship

1. Choose the false statement about the decomposition into BCNF?

Answer: The decomposition has the dependency preservation property

2.\_\_ is the framework under which data may exist and SQL operations on data may be executed

Answer: SQL environment

3. Which of the followings is the extended operator of relational algebra?

Answer: All of the others

4. Which statement is true regarding subqueries?

Answer: All of the others

5. In ODL, if we have a many-one relationship from class C to class D, then \_\_

Answer: ... just D,... SET

6. Which of the follwing statements is invalid?

Answer: If A->B, B-->>C,A->C holds, too

7. Which of the following is applied in PSM

Answer: All of the others

8.Which of the followings may be a part of well-formed XML document?

Answer: All of the others

9. Suppose the realtion SALE(item, customer, quantity, price) with more than billion tuples from the large database. We try to provide a rapid random and sequential access to this table by \_\_\_

Answer: Creating some indices

10. Suppose a realtion PROJECT(projectID,projectName,location,department, ProjectLo1(projectID, projectName,department) is an updatable view associated to PROJECT where location=1. Evaluate the following statement: INSERT INTO ProjectLo1(projectID,projectName,department) VALUES(200.'ERP1.0',1);

Answer: ...is no new tuple on ProjectLo1, and newtuple(200.'ERP 1.0',null, 1) on Project

11. Which of the followings is characteristic of UML?

Answer: Classes are sets of objects, with states and behaviors

12. Suppose R(A,B) and S(B,C) are bags. R has two tuples (1,2),(2,3). S has three tuples (1,3),(3,2),(2,1).Evaluate the following realtional expression: gA,SUM(C)->SUMC(R\*S), where \* denotes the natural join.

Answer: two tuple (1,1) and (2,2)

13. Which of the following statement is belong to DML?

Answer: GRANT

14.Suppose the relation Project(number,name,department,location).Evaluate the following statement: SELECT distinct p1.location FROM Project p1, Project p2 WHERE p1.location = p2.location AND p1.number<p2.number

Answer: ..there are more than one projects

15. Suppose a realtion PROJECT(projectID,projectName,location,department, ProjectLo1(projectID, projectName,department) is an updatable view associated to PROJECT where location=1. Evaluate the following statement: DELETE FROM ProjectLo1 WHERE department=1;

Answer: ..whose value on component department is 1, and value on component location is 1,too

16.Suppose the following statement: CREAT TABLE EMPLOYEE( SSN INT PRIMARY KEY, FULLNAME NVARCHAR(100), GENDER CHAR(1) DEFAULT ' UNDEFINED', AGE INT DEFAULT '18', CHECK ((GENDER = 'F' AND AGE<55) OR (GENDER='M' AND AGE <60))); Evaluate this statement in SQLSever 2005

Answer: ..successfully, newtable name as EMPLOYEE is created

17.The responsibility of Database management system is \_\_

Answer: all of the others

18. Which of following statements is allowed in SQLServer 2005

Answer: all of the others

19. which of the followings cannot be used to construct the complex type in XML Schema

Answer: By using tag

20. Suppose the relation tblEmployee(EmployeeID, EmployeeName,Salary,department).Consider the following code in SQL Sever 2005:DECLARE @EmployeeID INT,@EmployeeName NVARCHAR(50),@SALARY DECIMAL(10,0); DECLARE myCursor CURSOR FOR Select EmployeeID, EmployeeName, Salary FROM tblEMPLOYEE WHERE department =1; OPEN myCursor; FETCH NEXT FROM MyCursor INTO @EmployeeID, @EmployeeName, @Salary;IF @@FETCH\_STATUS<>0 PRINT '<<NONE>>'; WHILE @@FETCH\_STATUS=0 BEGIN PRINT @EmployeeID + ''@EmployeeName +' '+@Salary; FETCH NEXT FROM myCursor INTo @EmployeeID,@EmployeeName,@Salary;END CLOSE myCursor; DEALLOCATE myCursor; What happens if we execute this code?

Answer: ..and prints out three values for each existing employee in tblEmployee table

21. Suppose R(A,B) and S(B,C) are bags. R has two tuples (1,1),(1,2).S has three tuples (1,2),(2,1),(2,2). Evaluate the following Datalog rule: H(x) <- R(x,y) AND S(y,z) AND NOT R(x,z)

Answer: relation H has no tuples

22. Suppose the relation WorksOn(project, employee, hoursperweek).Consider the following constraint: Nobody can't work more than 40 hours a week(for all his/her projects).How can we implement this constraint in SQLServer 2005

Answer: ..a trigger to refuse all modifications violating this constraint

23. Which of the following Datalog rules is unsafe

Answer: Q(x,y,z)<-U(x,y) AND T(x,y) AND NOT T(x,z)

24. Suppose two relations Project (number, name, location, department) and Department(number, name).Evaluate the following SQL statement: SELECT D.number, D.name, P.number, P.name FROM Department D LEFT OUTER JOIN Project P ON (D.number = P.department);

Answer: ..department irrecpective of whether they control projects or not

25. Which of the following expression represents the below constraint on relation R(A:int,B:int,C:int): For every tuple in R, the value on A must be greater than the value on B or value on C must be less than the sum of value on A and value on B

Answer: sA->B OR C < A + B( R ) =

26. which of the following statement is used to delete all data from table EMPLOYEES except its schema

Answer: DELETE FROM EMPLOYEES

27. which of the followings has the same meaning as attribute-based constraint?

Ventity-based constraint

28. When we define an attribute A as PRIMARY KEY of relation R, then \_\_\_\_\_\_\_\_\_\_\_\_

Answer: all of the others

29. An attributes in\_\_\_\_\_\_\_\_\_\_\_\_ are only integers and character strings

Answer: ODL

30. How can we convert the subclass structures to relations

Answer: contruct a single relation for whole hierarchy of entity sets

31. Which of the following statements is true about the User Defined Type?

Answer: all of the others

32. Which of the followings is true about SQL session?

Answer: The session lasts as long as the connection that created it

33. Which of the followings is false about weak entity set?

Answer: The key for a weak entity set includes the keys for all supporting entity sets

34. What do we say about views?

Answer: all of the others

35. Given two relation tblEmployee(EmployeeID,EmployeeName,Salary,Department) and tblDepartment(DepartmentID, DepartmentName,Manager,AssignData).Suppose that Scott is granted as followed: GRANT SELECT, UPDATE ON tblEmployee TO Scott; GRANT SELECT(DepartmentID, Manager) ON tblDepartment to Scott;Which of the following statements is available for Scott?

Answer: all of the others

36. Which of the followings is right about attributes on XML documents?

Answer: DTD is a grammar-like set of rules to ensure that a XML document must be well-formed

37. Suppose the relation Employee(SSN, Fullname,Salary, SupervisorSSN).Consider the following condition: NOT EXISTS(SELECT\*FROM EMPLOYEE WHERE SupervisorSSN NOT IN (SELECT SSN FROM EMPLOYEE)).Which of the following activities may violate this condition?

Answer: all of the others

38. Which of the followings evolves to information integration?

Answer: None of the others

39. Which of the followings was the first ever used for data model

Answer: file System

40. Suppose the relation SALE(item, cusomter, quantity, price) with more than billion tuples from the large database. We try to provide a rapid random and sequential access to this table by\_\_\_\_\_\_\_\_\_

Answer: ..make the viewProjectNo1 unusable

41. Suppose the relation WorksOn(project, employee, hoursperweek).Consider the following query:Listing all those projects with at least 10 workers.The condition 'at least 10 worker' must be\_\_\_\_\_\_\_\_

Answer: appeared in HAVING clause as condition con classified groups

42. An A attribute is called the key of relation R if\_\_\_\_\_\_\_\_\_\_\_\_

Answer: all of the others

43. Where cannot we use PSM procedures?

Answer: None of the others

44.View is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Answer: None of the others

45. \_\_\_\_\_\_\_manage the interations with the user

Answer: The webserver-tier processes

46. Suppose the relation R(A,B,C,D) and set of FDs A->B,B->C,C->D. Suppose the projection R1=PA,C,D®

Answer: A->C, A->D

47. Suppose two relations tblEmployee(EmployeeID, EmployeeName, Salary, memberOf(\*tblDepartment)) and tblDepartment(DepartmentID,DepartmentName,managerIs(tblEmployee)).What doeas the meberOf(tblDepartment) mean?

Answer: ..is a single tuple of relation schema named tblDepartment

48. Suppose two predefined types AuthorType and BookType in UDT. We have defined two relations named Authors and Books based on these types.To present the statement 'Which authors have written which books we define the table Writes.Which of the followings is valid definition for Writes table?

Answer: W author REF(Type),book REF(BookType));

49. Which of the followings is false about E/R model?

Answer: .. very simple types, e.g integers or character strings

50. Which of the following statements is true?

Answer: A recursion in Datalog can be expressed in relational algebra

51. Suppose the relation Employee(SSN:char(12),Supervisor:char(12),Num\_Of\_Supervised:int),where Supervisor indicates that who supervises the current employee, and Num\_Of\_Supervised indicates that how many employees are supervised by this employee.Which of the followings is not allowed in SQL Server 2005

Answer: None of the others

52. Suppose the relation Employee(SSN, Fullname,Salary, SupervisorSSN).Consider the following query: SELECT\*FROM Employee WHERE NOT EXISTS(SELECT\*FROM Employee WHERE SSN=SupervisorSSN)

Answer: .. successfully, and return all those employees who don't supervise any other employee

53. Given two relation tblEmployee(EmployeeID,EmployeeName,Salary,Department).Suppose we connected to SQL with Scott authorization ID.Which of privileges must Scott have to execute the following statement: DELETE FROM tblEmployee WHERE EmployeeID IN(SELECT EmployeeID FROM tblEmployee WHERE department IS NULL)

Answer: DELETE on tblEmployee

54. which of the followings doesn't take the key's condition 'no two tuples agree on all attributes of key'?

Answer: foreign key

55. Suppose we have two elements Department and Project. The Department element has a key named depKey on the attribute DepartmentNo. The Project has an attribute named DepartmentNo, and we'd like to define it as foreign key.Which of followings can be use?

Answer: <xs:keyref name="depRef" refers="depKey"><xs:selector:xpath="Project"/><xs:field xpath="DepartmentN 0"/></xs:keyref>

56. suppose relation R(A,B,C,D,E) and set of FD's S={A->B,B->D,AD->C}.Find on the key of R

Answer: {A}

57. Suppose the relation Employee(SSN,Name,Salary,Department).Which of the followings returns all those employees with salary exceeds salary of all employees from department 1

Answer: all of the others

58. Which of the followings is not true about XML documents

Answer: XML data is presented in one or more documents

59. Suppose relation R(A,B,C,D,E) and set of FD's A->D,AD->C,C->BE.Compute {A}+

Answer: {A,D,C,B,E}

60. Database users can connect to database management system as\_\_\_\_\_\_\_\_\_\_\_\_

Answer: all of the others

61. Any Create command maybe reserved by using a \_\_\_ command

Answer: Commit

62. Suppose a relation R(A,B,C) where all attributes are numeric and we'd like to create a modifying view. Which of followings is valid?

Answer: All of the others

63. The keyword WITH CUBE is used in \_\_\_clause

Answer: GROUP BY

Chap2 Marks: 1 \_\_\_\_\_\_\_\_\_\_\_ is a language to access and manipulate data from a database. Even non-programmers can use it to retrieve and update data. Choose one answer. a. PHP b. ODBC c. Structured Query Language d. ASP Answer: Structured Query Language Question 2 Marks: 1 A person’s name, birthday, and social security number are all examples of : Choose one answer. a. entities b. relationships c. descriptors d. attributes Answer: attributes Question 3 Marks: 1 A domain definition consists of the following components EXCEPT: Choose one answer. a. integrity constraints b. size c. data type d. domain name Answer: integrity constraints Question 4

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Marks: 1 Which of the following is software used to create, maintain, and provide controlled access to databases? Choose one answer. a. Attribute b. Network operating system c. User view d. Database management system Answer: Database management system Question 5 Marks: 1 In the SQL language, the \_\_\_\_\_\_\_\_\_\_ statement is used to create table definitions. Choose one answer. a. select b. create session c. create index d. create table Answer: create table Question 6 Marks: 1 A database is an organized collection of \_\_\_\_\_ related data. Choose one answer. a. physically b. loosely c. logically d. badly Answer: physically Question 7 Marks: 1 A join in which the joining condition is defined explicitly is called a ( n ): Choose one answer. a. Cartesian product b. theta join c. natural join d. All of the other choices Answer: theta join Marks: 1 A join operation: a. causes two disparate tables to be combined into a single table b. is used to combine indexing operations c. causes two tables with common attribute(s) to be combined into a single table Answer: causes two tables with common attribute(s) to be combined into a single table

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d. brings together data from two different fields Question 2 Marks: 1 Data Definition language (DDL) is used to: a. query database and modify the database b. connect to database and query database c. declare database schemas d. None of the others. Question 4 Marks: 1 A property or characteristic of an entity type that is of interest to the organization is called a/an: a. relationship b. cross-function c. attribute d. coexisting entity Answer: attributeQuestion 5 Marks: 1 A join between two relations R and S over all common attributes based upon equality and one occurrence of each common attribute is eliminated from the result is called a/an: a. Cartesian product b. Theta join c. Natural join d. None of the others. Question 6 Marks: 1 Customers, cars, and parts are examples of : Choose one answer. a. attributes b. cardinals c. entities

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d. relationships chap 3 Question 1 Given a relation R(A,B,C,D) with dependencies A-->C, C->D. Which of the followings doesn't hold in R? Choose one answer. a. C->->D b. A->->D c. A->D d. A->C Answer: A->C Question 2 What is the property that good decomposition must have? Choose one answer. a. Elimination of anomalies b. Recoverability of information c. Preservation of dependencies d. All of the others Question 3 Given a relation R(A,B,C,D) with functional dependencies A->BC, C->D, D->A. Find one key of R Choose one answer. a. {A,B,C}

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b. {A,B} c. {A} d. {A,B,C,D} Answer: {A} Question 4 Functional dependency is a constraint on \_\_\_\_\_\_\_\_\_\_ Choose one answer. a. Two sets of attributes of a relation b. Two sets of attributes from two different relations c. Two different relations in database d. A set of attributes of a relation Answer: Two sets of attributes of a relation Question 5 One attribute is called prime if \_\_\_\_\_\_\_\_\_\_ Choose one answer. a. It is a member of candidate key b. It is a member of super key c. It is a member of primary key d. It is a member of key Answer: It is a member of key Question 6 Choose the false statement about the decomposition into BCNF? Choose one answer. a. The decomposition eliminates all anomalies

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b. The relations of the decomposition are all in BCNF c. The decomposition has the dependency preservation property d. The decomposition has a lossless join Answer: The decomposition has the dependency preservation property Question 7 Choose a right statement Choose one answer. a. If X is a key, then X is a super key b. A relation has only one key c. If X is a super key, then X is a key d. Primary key is a minimal key Answer: If X is a key, then X is a super key chap 4 Question 1 The principle strategy to convert subclasses to relations is \_\_\_\_\_\_\_\_\_ Choose one answer. a. Follow the E/R viewpoint b. Treat entities as objects belonging to a single class c. Use null values d. All of the others Answer: All of the others(follow the E/R|Treat entities|use null value)Question 2 Choose a wrong answer Choose one answer. a. Binary relationship is called association in UML b. UML class is an entity set in E/R model

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c. One UML class has one key d. UML offers multi-way relationships Answer: UML offers multi-way relationships Question 3 Choose a right answer Choose one answer. a. The value of one or more attributes can uniquely identify an entity b. Entity set have associated attributes c. Relationships can have attributes d. All of the others Answer: All of the others(The value of/entity set/relationshop)Question 4 When we say one class has many students, and a student is a member of one class, we mean that the multiplicity of this relationship from class entity set to student entity set is \_\_\_\_\_\_\_\_\_ Choose one answer. a. One - many b. Many - many c. One - one d. Many - one Answer: One - many Question 5 An attribute (or attributes) that uniquely identifies each row in a relation is called a/an: Choose one answer.

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a. index key b. duplicate key c. primary key d. foreign key Answer: primary key Question 6 Choose a wrong statement Choose one answer. a. E/R model represents the structure of data graphically b. E/R model represents both the structure of data and the operations on data c. E/R model uses three principle element types: entity sets, attributes, and relationships d. None of the others Answer: E/R model represents both the structure of data and the operations Question 7 The number of entity types that participate in a relationship is called the : Choose one answer. a. degree b. number c. counter d. cardinality Answer: degree 1

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Marks: 1 A student can attend five classes, each with a different professor. Each professor has 30 students. The relationship of students to professors is a \_\_\_\_\_\_\_\_\_ relationship. Choose one answer. a. many - to - many b. one - to - many c. many - to - one d. one - to - one Answer: many - to - manyQuestion 3 Marks: 1 An entity type whose existence depends on another entity type is called a/an \_\_\_\_\_\_\_\_\_ entity. Choose one answer. a. strong b. codependent c. weak d. variant Answer: weak Question 4 Marks: 1 A relationship between the instances of a single entity type is called \_\_\_\_\_\_\_\_ relationship. Choose one answer. a. binary b. primary c. ternary d. unary Answer: unary Question 5 Marks: 1 The relation for the weak entity set W must include \_\_\_\_\_\_\_\_\_\_ Choose one answer. a. All attributes of W

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b. Key attributes of the supporting entity sets c. All attributes of supporting relationships for W d. All of the others Question 6 Marks: 1 The principle strategy to convert subclasses to relations is \_\_\_\_\_\_\_\_\_ Choose one answer. a. Follow the E/R viewpoint b. Treat entities as objects belonging to a single class c. Use null values d. All of the others Question 7 Marks: 1 An attribute (or attributes) that uniquely identifies each row in a relation is called a/an: Choose one answer. a. primary key b. foreign key c. duplicate key d. index key Chap 5 Question 1 Marks: 1 An attribute of the relation R to which the ? is applied is called \_\_\_\_\_\_\_\_\_\_ Choose one answer. a. Grouping attribute b. Aggregation attribute

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c. Composite attribute d. None of the others Answer: Grouping attribute Question 2 Marks: 1 To convert a bag to a set, we use \_\_\_\_\_\_\_\_\_ operator Choose one answer. a. p b. ? c. d d. s Answer: d Question 3 Marks: 1 Suppose R(A,B,C) is bag, S=sA>B(R). Choose a right answer Choose one answer. a. S has the same schema as R, and S has less or equal tuples than R has b. A number of tuples in S is always equal to a number of tuples in R c. A schema of S is different from a schema of R d. None of the others Answer: S has the same schema as R, and S has less or equal tuples than R has Question 4 Marks: 1 Suppose a relation R(A,B,C) as a bag, and a relation S=pA,B(d(R)) as a bag, too. R has 4 tuples (1,2,2), (1,3,2), (1,2,2), and (1,2,3). S has

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\_\_\_\_\_\_\_\_\_\_ tuples. Choose one answer. a. 4 b. 2 c. 3 d. 1 Answer: 3 Question 5 Marks: 1 Suppose a relation R(A,B) has 4 tuples (1,2), (2,3), (1,1), (2,4). A result of ?A,SUM(B)?SUM(R) is \_\_\_\_\_\_\_\_\_\_ Choose one answer. a. A relation has 2 tuples (1,3), (2,7) b. A relation has 4 tuples (1,2), (2,3), (1,1), (2,4) c. A relation has 3 tuples (2,3), (4,7) d. None of the others Answer: A relation has 2 tuples (1,3), (2,7) Question 6 Marks: 1 Suppose a relation R(A,B) and S(B,C) as a bags. R has 2 tuples (1,2), (1,4) and S has 3 tuples (2,3), (4,5) and (4,5). The theta-join R ? \_R.B<S.B S has \_\_\_\_\_\_\_\_\_\_ tuples Choose one answer. a. 3 b. 4

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c. 5 d. 2 Answer: 2Question 7 Marks: 1 Choose one answer. a. This operation is valid and the result has one tuple b. This operation is valid and the result has two tuples c. This operation is valid and the result has three tuples d. This operation is invalid because the attribute names of two Answer: This operation is valid and the result has three tuples relations are not the same Question 3 Marks: 1 Function parameters may be of mode \_\_\_\_\_\_\_\_\_\_ Choose one answer. a. INOUT b. All of the others

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c. OUT d. IN Answer: IN

Quiz Chapter 02

Question 1

Marks: 1

Which of the following types of data can be stored in a database?

Choose one answer.

a. Voice

b. Letters

c. Numbers

x d. All of the others

Answer: All(voice/letters/numbers)

Question 2

Marks: 1

A domain definition consists of the following components EXCEPT:

Choose one answer.

a. data type

b. size

c. domain name

x d. integrity constraints

Answer: integrity constraints

Question 3

Marks: 1

A join in which the joining condition is defined explicitly is called a ( n ):

Choose one answer.

a. Cartesian product

x b. theta join

c. natural join

d. All of the other choices

Answer: theta join

Question 4

Marks: 1

A person’s name, birthday, and social security number are all examples of :

Choose one answer.

x a. attributes

b. relationships

c. descriptors

d. entities

Answer: attributes

Question 5

Marks: 1

Customers, cars, and parts are examples of :

Choose one answer.

a. attributes

b. cardinals

x c. entities

d. relationships

Answer: entities

Question 6

Marks: 1

In the SQL language, the \_\_\_\_\_\_\_\_\_\_ statement is used to create table definitions.

Choose one answer.

a. select

b. create session

c. create index

x d. create table

Answer: create table

Question 7

Marks: 1

A join operation:

Choose one answer.

a. causes two disparate tables to be combined into a single table

b. is used to combine indexing operations

c. brings together data from two different fields

x d. causes two tables with common attribute(s) to be combined into a single table

Answer: causes two tables with common attribute(s) to be combined into a single table

Quiz Chapter 03

Question 1

Marks: 1

Which of the followings is not characteristic of the synthesis algorithm for 3NF schemas?

Choose one answer.

a. The relations of the decomposition are all in 3NF

b. The decomposition has a lossless join

c. The decomposition has the dependency preservation property

x d. The decomposition eliminates the anomalies

Answer: The decomposition eliminates the anomalies

Question 2

Marks: 1

Two sets of FD’s S and T are equivalent if \_\_\_\_\_\_\_\_\_\_

Choose one answer.

a. None of the others

b. T follows from S

c. S follows from T

x d. S follows from T and T follows from S

Answer: S follows from T and T follows from S

Question 3

Marks: 1

Which of the following statement is incorrect?

Choose one answer.

a. A relation with only two attributes is in BCNF

b. A relation with only two attributes is in 3NF

c. A relation in the BCNF is in 3NF

x d. None of the others

Answer: None of the others(A relation with/ A relation in)

Question 4

Marks: 1

Given a relation R(A,B,C,D) with functional dependencies A->BC, C->D, D->A. Find one key of R

Choose one answer.

a. {A,B}

b. {A,B,C}

c. {A,B,C,D}

x d. {A}

Answer: {A}

Question 5

Marks: 1

Choose the false statement about the decomposition into BCNF?

Choose one answer.

a. The relations of the decomposition are all in BCNF

b. The decomposition has a lossless join

c. The decomposition eliminates all anomalies

x d. The decomposition has the dependency preservation property

Answer: The decomposition has the dependency preservation property

Question 6

Marks: 1

Given a relation R(A,B,C,D) with dependencies A->B, C->D. Which of the followings holds in R?

Choose one answer.

a. AB->D

b. A->D

c. None of the others

x d. ABC->D

Answer: ABC->D

Question 7

Marks: 1

Suppose relation R(A,B,C,D), and a set of FD’s S={A->B, B->C, C->D}. Which of the followings is the result of R’s decomposition into BCNF?

Choose one answer.

a. {A,B,C}, {C,D}

b. {A,B}, {B,C,D}

c. {A,B}, {B,D}, {D,C}

x d. {A,B}, {B,C}, {C,D}

Answer: {A,B}, {B,C}, {C,D}

Quiz Chapter 04

Question 1

Marks: 1

Choose a wrong answer

Choose one answer.

a. Binary relationship is called association in UML

X b. UML offers multi-way relationships

c. UML class is an entity set in E/R model

d. One UML class has one key

Answer: UML offers multi-way relationships

Question 2

Marks: 1

A student can attend five classes, each with a different professor. Each professor has 30 students. The relationship of students to professors is a \_\_\_\_\_\_\_\_\_ relationship.

Choose one answer.

a. many - to - one

b. one - to - one

X c. many - to - many

d. one - to - many

Answer: many - to - many

Question 3

Marks: 1

A relationship between the instances of a single entity type is called \_\_\_\_\_\_\_\_ relationship.

Choose one answer.

a. primary

b. ternary

c. binary

X d. unary

Answer: unary

Question 4

Marks: 1

An entity type whose existence depends on another entity type is called a/an \_\_\_\_\_\_\_\_\_ entity.

Choose one answer.

a. variant

X b. weak

c. strong

d. codependent

Answer: weak

Question 5

Marks: 1

The number of entity types that participate in a relationship is called the :

Choose one answer.

a. counter

b. number

X c. degree

d. cardinality

Answer: degree

Question 6

Marks: 1

The relation for the weak entity set W must include \_\_\_\_\_\_\_\_\_\_

Choose one answer.

a. All attributes of W

b. Key attributes of the supporting entity sets

c. All attributes of supporting relationships for W

X d. All of the others

Answer: All of the others (All attribute/key attribute)

Question 7

Marks: 1

In E/R model, one entity set can appear \_\_\_\_\_\_\_\_\_ in a relationship

Choose one answer.

a. Three times

X b. Indefinite number of times

c. Two times

d. One time

Answer: Indefinite number of times

Quiz Chapter 05

Question 2

Marks: 1

To convert a bag to a set, we use \_\_\_\_\_\_\_\_\_ operator

Choose one answer.

a. `\gamma`

b. `\pi`

X c. `\delta`

d. `\sigma`

Answer: `\delta`

Question 3

Marks: 1

Suppose a relation R(A,B) and S(B,C) as a bags. R has 2 tuples (1,2), (1,4) and S has 3 tuples (2,3), (4,5) and (4,5). The theta-join R ? R.B<S.B S has \_\_\_\_\_\_\_\_\_\_ tuples

Choose one answer.

X a. 2

b. 4

c. 5

d. 3

Answer: 2

Question 5

Marks: 1

Choose one answer.

a. This operation is valid and the result has one tuple

X b. This operation is valid and the result has three tuples

c. This operation is invalid because the attribute names of two relations are not the same

d. This operation is valid and the result has two tuples

Answer: This operation is valid and the result has three tuples

Question 6

Marks: 1

Suppose R and S are bags, R and S are type compatible, and t is the tuple that appears n times in R, and m times in S (n=0, m=0). How many times doest t tuple appear in R\S ?

Choose one answer.

a. n+m times

b. MIN(n,m)

X c. MAX(0,n-m)

d. None of the others

Answer: MAX(0,n-m)

Question 7

Marks: 1

Suppose R(A,B,C) is bag, S= s(A>B) (R). Choose a right answer

Choose one answer.

X a. S has the same schema as R, and S has less or equal tuples than R has

b. A number of tuples in S is always equal to a number of tuples in R

c. A schema of S is different from a schema of R

d. None of the others

Answer: S has the same schema as R, and S has less or equal tuples than R has

Quiz Chapter 06

Question 1

Marks: 1

Which SQL isolation level does not allow dirty reads, non-repeatable reads, and phantoms ?

Choose one answer.

a. Read Committed

b. Read Uncommitted

c. Repeatable Read

X d. Serializable

Answer: Serializable

Question 2

Marks: 1

With SQL, how do you select all the records from a table named "Employee" where the value of the column "FirstName" starts with an "a"?

Choose one answer.

a. SELECT \* FROM Persons WHERE FirstName='a'

b. SELECT \* FROM Persons WHERE FirstName LIKE '%a'

X c. SELECT \* FROM Employee WHERE FirstName LIKE 'a%'

d. SELECT \* FROM Employee WHERE FirstName='%a%'

Answer: SELECT \* FROM Employee WHERE FirstName LIKE 'a%'

Question 3

Marks: 1

Suppose a relation R has two numeric non-null attributes A, B. Which of the following queries do we use to count the number of tuples in R ?

Choose one answer.

a. SELECT COUNT(\*) FROM R

b. SELECT COUNT(A) FROM R

c. SELECT COUNT(B) FROM R

X d. All of the others

Answer: All of the others(SELECT COUNT(A/B/\*))

Question 4

Marks: 1

Suppose a relation R has two attributes A and B. Choose a valid query

Choose one answer.

a. SELECT A, B, COUNT(\*) FROM R GROUP BY A

X b. SELECT A, B, COUNT(\*) FROM R GROUP BY A, B

c. SELECT A, COUNT(\*) FROM R GROUP BY B

d. All of the others

Answer: SELECT A, B, COUNT(\*) FROM R GROUP BY A, B

Question 5

Marks: 1

With SQL, how do you select all the columns from a table named "EMPLOYEE"?

Choose one answer.

a. SELECT P.\* FROM EMPLOYEE P

X b. All of the others

c. SELECT ALL \* FROM EMPLOYEE

d. SELECT \* FROM EMPLOYEE

Answer: All of the others (SELECT P/ALL/\*)

Question 6

Marks: 1

Sub-queries cannot appear in \_\_\_\_\_\_\_\_\_\_

Choose one answer.

a. WHERE clause

b. HAVING clause

X c. GROUP BY clause

d. FROM clause

Answer: GROUP BY clause

Question 7

Marks: 1

The result of ((10<NULL) OR TRUE) AND (UNKNOWN OR FALSE) is

Choose one answer.

a. TRUE

b. FALSE

X c. UNKNOWN

d. NULL

Answer: UNKNOWN

Quiz Chapter 06

Question 1

Marks: 1

Suppose a relation S has three numeric attributes A, B, and C. Choose a valid query

Choose one answer.

a. SELECT A, SUM(B) FROM S GROUP BY A HAVING B<20

x b. SELECT A, SUM(\*) FROM S GROUP BY A HAVING COUNT(B)<20

c. SELECT A, SUM(C) FROM S GROUP BY A HAVING COUNT(\*) <20

d. None of the others

Answer: SELECT A, SUM(\*) FROM S GROUP BY A HAVING COUNT(B)<20

Question 2

Marks: 1

Suppose a relation R has two numeric non-null attributes A, B. Which of the following queries do we use to count the number of tuples in R ?

Choose one answer.

a. SELECT COUNT(\*) FROM R

b. SELECT COUNT(A) FROM R

c. SELECT COUNT(B) FROM R

x d. All of the others

Answer: All of the others(SELECT COUNT(\*/A/B))

Question 3

Marks: 1

Which SQL keyword is used to sort the result-set?

Choose one answer.

a. SORT

b. SORT BY

c. ORDER

x d. ORDER BY

Answer: ORDER BY

Question 4

Marks: 1

Suppose two relations R(A,B,C) and S(A,B,C) are type compatible, where A, B, C are numeric attributes. Which of the following queries is invalid ?

Choose one answer.

a. INSERT INTO R(A,B,C) VALUES (1,2,3);

b. INSERT INTO R VALUES (1,2,3);

c. INSERT INTO R(A, B, C) SELECT \* FROM S;

x d. None of the others

Answer: None of the others(INSERT INTO R)

Question 5

Marks: 1

With SQL, how do you select all the records from a table named "Employee" where the value of the column "FirstName" starts with an "a"?

Choose one answer.

a. SELECT \* FROM Persons WHERE FirstName LIKE '%a'

x b. SELECT \* FROM Employee WHERE FirstName LIKE 'a%'

c. SELECT \* FROM Employee WHERE FirstName='%a%'

d. SELECT \* FROM Persons WHERE FirstName='a'

Answer: SELECT \* FROM Employee WHERE FirstName LIKE 'a%'

Question 6

Marks: 1

Which of the followings is not part of Data Manipulation Language (DML)?

Choose one answer.

a. SELECT statement

x b. CREATE statement

c. UPDATE statement

d. INSERT statement

Answer: CREATE statement

Question 7

Marks: 1

Suppose a relation R has two attributes A and B. Choose a valid query

Choose one answer.

a. SELECT A, B, COUNT(\*) FROM R GROUP BY A

x b. SELECT A, B, COUNT(\*) FROM R GROUP BY A, B

c. SELECT A, COUNT(\*) FROM R GROUP BY B

d. All of the others

Answer: SELECT A, B, COUNT(\*) FROM R GROUP BY A, B

Quiz Chapter 07

Question 1

Marks: 1

The another name of referential integrity constraint is \_\_\_\_\_\_\_\_\_\_\_

Choose one answer.

a. Not-null constraint

b. Domain-based constraint

X c. Foreign key constraint

d. None of the others

Answer: Foreign key constraint

Question 2

Marks: 1

Choose a right answer

Choose one answer.

a. We cannot give a name for primary key constraint

b. We must delete all constraints of a relation before dropping that relation

X c. On default, any modification violating the referential integrity constraint is rejected

d. All of the others

Answer: On default, any modification violating the referential integrity constraint is rejected

Question 3

Marks: 1

Suppose there are two relations R(A,B,C) and S(D,E,F), and a referential integrity constraint from D of S to A of R, where A is a primary key of R. Which of the followings can violate this constraint ?

Choose one answer.

a. Insert a new tuple to the relation R

x b. Insert a new tuple to the relation S

c. Delete an exist tuple from the relation S

d. All of the others

Answer: Insert a new tuple to the relation S

Question 4

Marks: 1

Choose an invalid query

Choose one answer.

X a. 1

b. 1

c. 1

d. None of the others

Question 5

Marks: 1

When a CHECK constraint associate to many tuples on one or more relations, we must create

Choose one answer.

a. Attribute-based CHECK constraint

b. Domain-based CHECK constraint

c. Tuple-based CHECK constraint

x d. None of the others

Answer: None of the others

Question 7

Marks: 1

When a referential integrity constraint is violated, the designer can use \_\_\_\_\_\_\_\_\_\_

Choose one answer.

a. The Default Policy

b. The Cascade Policy

c. The Set-Null Policy

X d. All of the others

Answer: All of the others(The default/cascade/set-null)

Quiz Chapter 08

Question 1

Marks: 1

Suppose a relation R(A,B,C) with three numeric attributes, RC(A,B) is an updatable view associated to R where C=1. Evaluate the following statement:

DELETE FROM RC(A,B) WHERE A=1

Choose one answer.

a. The query cannot be executed

b. The query is executed but nothing happened on R neither on S

c. The query is executed, it deletes from R all those tuples, which has value 1 on component A

x d. The query is executed, it deletes from R all those tuples, whose value on component A is 1, and value on component C is 1, too

Answer: The query is executed, it deletes from R all those tuples, whose value on component A is 1, and value on component C is 1, too

Question 2

Marks: 1

The most useful index on a relation is an index on its key. This is because:

Choose one answer.

a. The index on non key attribute(s) runs slower

x b. Queries in which a value for the key is specified are common, so an index on the key will get used frequently. In addition, there is at most one tuple with a given key value, the index also returns either nothing or one location for a tuple.

c. The index on non key attribute(s) makes update operations to the relation more complex and time-consuming

d. All of the others

Answer: Queries in which a value for the key is specified are common, so an index on the key will get used frequently. In addition, there is at most one tuple with a given key value, the index also returns either nothing or one location for a tuple.

Question 3

Marks: 1

Choose the right statement

Choose one answer.

x a. All of the others

b. We can create as many indexes as we wish, but we need to analyze the trade-off

c. We can create index on a multiple attributes

d. We can create index on a single attribute

Answer: All of the others(We can create)

Question 4

Marks: 1

Choose the right statement

Choose one answer.

a. A view can be created that uses more than one table or other views with a SELECT clause of any complexity

b. All of the others

c. A view can be created logically from other views

x d. A view can be created logically from other tables

Answer: A view can be created logically from other tables

Question 5

Marks: 1

Suppose a relation R(A,B,C) where all attributes are numeric. Choose a valid query to create an updatable view.

Choose one answer.

a. CREATE VIEW RS SELECT A,B FROM R WHERE C=5;

x b. CREATE VIEW RS AS SELECT A,B FROM R R1, R R2 WHERE R1.C=R2.C AND R1.A<>R2.A;

c. CREATE VIEW RS AS SELECT A,B FROM R R1 WHERE C IN (SELECT R2.C FROM R R2 WHERE R.C=R2.C);

d. None of the others

Answer: CREATE VIEW RS AS SELECT A,B FROM R R1, R R2 WHERE R1.C=R2.C AND R1.A<>R2.A;

Question 6

Marks: 1

Given the relation Movies(title, year, length, genre, studioName). Select the right query to create a view with the titles and studio names of all movies that were produced in 1980

Choose one answer.

x a. CREATE VIEW OldMovies AS SELECT title, studioName FROM Movies where year=1980

b. None of the others

c. CREATE VIEW OldMovies SELECT title, studioName FROM Movies where year=1980

d. CREATE VIEW OldMovies AS SELECT title, year FROM Movies where year=1980

Answer: CREATE VIEW OldMovies AS SELECT title, studioName FROM Movies where year=1980

Question 7

Marks: 1

A clustering index is \_\_\_\_\_\_

Choose one answer.

x a. An index that is defined on non-key field(s) and there can be more than one record corresponding to a value of the indexing field

b. None of the others

c. An index that is built on key field(s)

d. An index that is defined on the ordering key field, which is guaranteed to have a unique value in each record

Answer: An index that is defined on non-key field(s) and there can be more than one record corresponding to a value of the indexing field

Quiz Chapter 09 - Attempt 1

Question 1

Marks: 1

What does the application tier do?

Choose one answer.

a. Managing the interactions with users

b. Executing queries that requested from the higher tier

x c. Turning data from the database into a response to the request that it receives from the webservers

d. None of the others

Answer: Turning data from the database into a response to the request that it receives from the webservers

Question 2

Marks: 1

When a user makes contact, a \_\_\_\_\_\_\_\_\_\_ response to the request, and the user becomes a client of this \_\_\_\_\_\_\_\_\_\_ process.

Choose one answer.

a. application, webserver

x b. webserver, webserver

c. webserver, application

d. application, application

Answer: webserver, webserver

Question 3

Marks: 1

The actions performed by the \_\_\_\_\_\_\_\_\_\_ tier are often referred to as the business logic of the organization operating the database

Choose one answer.

a. None of the others

b. Web-server

x c. Application

d. Database

Answer: Application

Question 4

Marks: 1

After defining a persistent stored modules, we can call it \_\_\_\_\_\_\_\_\_\_

Choose one answer.

a. From a host-language program

x b. All of the others

c. As a statement of another persistent stored modules

d. In generic SQL interface

Answer: All of the others(From a host/As a statement/In generic)

Question 5

Marks: 1

In PSM we can break out of the loop by using \_\_\_\_\_\_\_\_\_\_ statement.

Choose one answer.

x a. LEAVE ;

b. QUIT ;

c. BREAK ;

d. EXIT ;

Answer: LEAVE

Question 6

Marks: 1

1. In PSM we define an exception handler as followed:

DECLARE <where to go next> HANDLER FOR <condition list> <statement>

with <where to go next> clause cannot be \_\_\_\_\_\_\_\_\_\_

Choose one answer.

a. EXIT

x b. GOTO

c. CONTINUE

d. UNDO

Answer: GOTO

Question 7

Marks: 1

In PSM, the difference between a stored procedure and a function is that \_\_\_\_\_\_\_\_\_\_

Choose one answer.

x a. A function has the return statement

b. Loops are not allowed in a function

c. All of the others

d. We can declare local variables in a functions

Answer: A function has the return statement

Quiz Chapter 10

Question 1

Marks: 1

Suppose a user-defined type is declared as follows:

CREATE TYPE AddressType AS (street CHAR(30), city CHAR(30));

Which of the following is a generator method of AddressType ?

Choose one answer.

a. All of the others

b. AddressType(s,c);

c. AddressType(s);

x d. AddressType();

Answer: AddressType();

Question 2

Marks: 1

We can turn the result of a query into a data cube by appending \_\_\_\_\_\_ to a group-by clause

Choose one answer.

a. WITH STAR

b. WITH AGGREGATE

x c. None of the others

d. WITH SUM

Answer: None of the others (WITH STAR/AGGREGATE/SUM)

Question 3

Marks: 1

Which of the following statements is wrong?

Choose one answer.

a. In object-relational model, the type of an attribute also can be a reference to a tuple with a given schema or a set of references to tuples with a given schema

b. In object-relational model, a value of one component of a tuple can not be an entire relation

c. Object-relational model allows a type that is a bag of structs, which is essentially a relation

x d. None of the others (In obj-relational modelx3)

Answer: None of the others

Question 4

Marks: 1

Given two relations Department(ID, Name) and Employee(ID, Fullname, depName).

Suppose we connect to SQL database with "Picard" authorization ID. What privileges must Picard have to execute the following statement:

INSERT INTO Department(name)

SELECT DISTINCT depName

FROM Employee

WHERE depName NOT IN

(SELECT name FROM Department);

Choose one answer.

a. Privileges for INSERT(name) ON Department and SELECT(depName) ON Employee

b. Privileges for INSERT ON Department and SELECT ON Employee

x c. Privileges for INSERT, SELECT ON Department and SELECT ON Employee

d. Privileges for INSERT ON Department and SELECT, INSERT ON Employee

Answer: Privileges for INSERT, SELECT ON Department and SELECT ON Employee

Question 5

Marks: 1

1. Select the right statement to declare MovieStar to be a relation whose tuples are of type StarType. Note: StarType is a user-defined type that has its definition as follows:

CREATE TYPE StarType AS (

name CHAR(30),

address CHAR(100) );

Choose one answer.

a. CREATE TABLE MovieStar (name StarType PRIMARY KEY );

b. CREATE TABLE MovieStar (name StarType );

c. None of the others

x d. CREATE TABLE MovieStar OF StarType ();

Answer: CREATE TABLE MovieStar OF StarType ();

Question 6

Marks: 1

Choose the right statement

Choose one answer.

a. A UDT can be the type of an attribute belonging to some table

b. A User-Defined Type (UDT) in SQL can be the type of a table

x c. All of the others

d. The form of UDT definition is: CREATE TYPE T AS ();

Answer: All of the others (A UDT/User-defined type/form of UDT)

Question 7

Marks: 1

Choose a right statement

Choose one answer.

a. Every user must have an authorization ID if he/she wants to connect to database

b. SQL has a special authorization ID called PUBLIC, which includes any user

c. Authorization ID may be granted privileges from others or may give its privileges to others

x d. All of the others (Every user/SQL has a/Authorization)

Answer: All of the others

Quiz Chapter 11

Question 1

Marks: 1

Which of following definition is wrong (that is this XML document is not well-formed) ?

Choose one answer.

a. 1

x b. 1

c. 1

d. None of the others

Answer:

Question 2

Marks: 1

Which of the followings is not true about XML documents?

Choose one answer.

a. Well-formed XML document has a root element that is the entire body of the text

b. XML is a tag-based notation designed originally for marking documents, much like the familiar HTML

c. XML can have attributes within its open tag

x d. Conversion from XML documents to relational database is straightforward

Answer: Conversion from XML documents to relational database is straightforward

Question 3

Marks: 1

Which of the followings is right about semistructured data representation?

Choose one answer.

a. There are some root nodes, they don't have arc in, and every other nodes may be reachable from one of them

b. There are many interior nodes, each of them has only one arc out

x c. There is only one root, it has no arc in, and every other nodes must be reachable from this node

d. All of the others

Answer: There is only one root, it has no arc in, and every other nodes must be reachable from this node

Question 4

Marks: 1

Some things to consider when creating valid XML documents are \_\_\_\_\_\_\_\_\_\_

Choose one answer.

a. We use whatever tags that we wishes

b. We must begin with a declaration that it is XML

x c. All of the others

d. We must have a root element that is the entire body of the text

Answer: All of the others (We use whatever/must begin/must have)

Question 5

Marks: 1

An attribute presents as \_\_\_\_\_\_\_\_\_\_ of semi structured database

Choose one answer.

a. Arc

b. Interior node

c. Role

x d. Leaf node

Answer: Leaf node

Question 6

Marks: 1

Which of the followings is right about well-formed XML documents?

Choose one answer.

a. Must have a root element that is the entire body of the text

b. Must involve document type definition

x c. All of the others

d. Must begin with a declaration that it is XML

Answer: All of the others (Must have/involve/begin)

Question 7

Marks: 1

Which of followings is part of semistructured data’s representation

Choose one answer.

a. Root node

b. Leaf nodes

c. Interior nodes

x d. All of the others

Answer: All of the others(Root node/leaf node/ interior node)

1. Suppose two relations R1(A,B), R2(C,D) and the theta join R3 := R1 ... R2.

Which of the followings is correct?

Answer: Each tuple t1 of R1 connect with all those tuple t2 of R2 if t1.B < t2.C

2. In referential integrity constraint, the referenced attribute(s) must be

Answer: Primary key, Unique key

3. \_\_\_ connect web-clients to the database system, usually over the Internet or possibly a local connection.

Answer: Web server processes

4. Suppose a relatation SALE(item, customer, quantity, price) with more than billion tuples from the large database. We must \_\_\_\_ to speed up the execution of certain queries.

Answer: create some indexes

5. Which of the following is TRUE about semi-structured data?

Answer: It is self\_describing

6. Which of the followings is characteristic of object relational data model?

Answer: All (Iden+Struc+Method)

7. Suppose R(A,B) and S(B,C) are bags. R has four tuples (1,1), (1,1), (1,2) and (1,2). S has three tuples (1,2), (2,1), (2,2). Evaluate the (R)\S operation.

Answer: This operation is valid and the result has one tuples

8. Which of following keywords can be used in well-formed XML document?

Answer: All(PCData,IMPLIED,REQUIRED)

9. Which of the following is the responsibility of DTD?

Answer: All(3 defines-contraint/element/operation)

10. In PSM we can break out of the loop by using \_\_\_ statement.

Answer: LEAVE

11. The ER Diagram uses three principle element types:

Answer: Entity sets/Attribute/Relation

12. Suppose R(A,B) and S(B,C) are bags. R has four tuples (1,1), (1,1), (1,2) and (1,2). S has three tuples (2,1), (2,2). Evaluate the R\*S operation, where \* denotes the left outer join.

Answer: This operation is valid and the result has six tuples.

13. Suppose a relation Employee(SSN, Name, Supervisor). The view Supervisor is defined as followed:

CREATE VIEW Supervisor AS SELECT SSN, Name FROM Employee WHERE SSN NOT IN(SELECT Supervisor FROM Employee).

Which of the following is executable in Supervisor?

Answer: None (Insert-Delete-Update)

14. The result of (UNKNOWN OR TRUE) is

Answer: TRUE

15. Suppose the following statement:

CREATE TABLE STUDENT (SSN INT PRIMARY KEY, FULLNAME NVARCHAR(100), GENDER CHAR(1) DEFAULT 'F', AGE INT DEFAULT '18', CHECK GENDER IN ('F','M'));

Answer: This statement has error in GENDER declaration, no newtable is created.

16. In SQL language, the command/statement that let you change the schema of a relation is:

Answer: Alter

17. Consider a relation with schema R(A, B, C, D) and FD's BC->D, D->A, A->B. Which of the following is the key of R?

Answer: BC

18. Given two relations Department(ID, Name) and Employee(ID, Fullname, depID).

Suppose we connected to SQL with Picard authorization id. Which of privileges must Picard have to execute the following statement:

DELETE FROM Department

WHERE ID NOT IN (SELECT depID FROM Employee)

Answer: Privilege for delete on Department and select on Employee

19. Data Definition language (DDL) is used to...

Answer: declare database schemas

20. Suppose a relation R has two not null numeric attributes A,B. Which of the following queries do we use to count the number of tuples in R?

Answer: All(3 Select Count A/Count B/Count\*)

21. Which of the following statements is TRUE? Key is the superkey. Superkey is the minimal key of relation. A relation can have only one key.

Answer: Key is the superkey.

22. Which of the following is the principle element type of ER diagram?

Answer: All ( Attri/Entity/Relation)

23. When we define an attribute A as PRIMARY KEY of relation R, then

Answer: There are no two tuples that have the same values on the A component.

24. Which of the followings statements is valid? If A->b, b->->C hold in relation R, then A->->C holds, too.

Answer: If A->b, b->->C hold in relation R, then A->->C holds, too.

25. The keyword WITH ROLLUP is used in \_\_\_ clause

Answer: GROUP BY

26. Suppose a relation Employee(SSN, Name, Birthdate), and a constraint based on Birthdate. Which of the following action doesn't violate this constraint?

Answer: Delete an exist employee

27. Suppose relation R(A,B,C,D,E), and set of FD's S={ a->D, BD->E}. Which of the followings is a key of R?

Answer: {A,B,C}

28. Which of the followings is TRUE about weak entity set?

Answer: All(Do not construct/Key for a weak/Weak entity set has one..)

29. Suppose the relation Employee(SSN,Fullname,SupervisorSSN). Evaluate the following query:

SELECT \* FROM Employee

WHERE SSN IN (SELECT SupervisorSSN FROM Employee)

Answer: This query executes successfully, and return all those employees who supervisw some other employees.

30. Which of the followings can appear in PSM procedure definition?

Answer: All(Statement/Parameter/Variables)

31. Choose the incorrect statement. UML supports the multi-way relationships. UML differentiates aggregations and compositions. Classes are set of objects, with states and behaviors.

Answer: UML supports the multi-way relationships

32. What will be returned when the following SQL statement is executed?

Select sale\_no, count(\*) as num\_orders

From Orders

Group By sale\_no;

Answer: A listing of each sale as well as a number of orders that he or she has made

33. Select the well-formed XML. Choose one.

Answer: <MovieData><Movie title><Year></Year></Movie></MovieData>

34. In a tree structure, a/an \_\_\_ has no arc out.

Answer: leaf node.

35. Suppose an updatable view DepartmentOnHCMC is associated to Department relation. Which of the followings is TRUE?

Answer: All(2 Update / Dropping)

36. Which of the followings is not applied while converting subclass structures to relations using E/R style conversion?

Answer: None (Construct relation for entity/for each sub/Do no construct for ISA)

37. Which of the followings has the same meaning as domain-based constraint?

Answer: Attribute-base constraint

38. Which of following statements can be used in PSM procedure definition?

Answer: All(Loop/Assign/Branching)

39. Suppose two relations R(A:string, B:int) and S(C:int, D:int). Which of the following is valid?

Answer: ALTER TABLE R ADD CONSTRAINT RCHK CHECK(A IN ('Yes','No'));

40. Which of the following is NOT a standard aggregation operator?

Answer: GROUP

41. Which of the following relational operations are considerably more effecient if we use the bag model?

Answer: Union

42. Which of the following statements is TRUE? A relation cannot be defined in terms of a negation or aggregation of itself. In SQL, a relation can be defined recursively in term of itself.

Answer: A relation cannot be defined in terms of a negation or aggregation of itself.

43. Suppose the relation WorkOn(project, employee, hoursperweek). Consider the following constraint:

Nobody can work more than 3 project at once.

How can we implement this constraint in SQLServer 2005?

Answer: We create a trigger to refuse all modification violating this constraint.

44. Choose the false statement about the decomposition into 3NF?

Answer: The decomposition has the dependency presevation property.

45. Suppose two relations tblEmployee(EmployeeID, EmployeeName, Salary, memberOf(\*tblDepartment)) and tblDepartment(DepartmentID, DepartmentName, managerIs(\*tblEmployee)).

What does the managerIs(\*tblEmployee) mean?

Answer: A managerIS is... type is a reference to a single tuple...

46. Which of the following is a disadvantage of using index?

Answer: An index make update operations become more complex

47. An attribute A is called the key of relation R if \_\_\_\_

Answer: All(It function/its closure/there are no two..)

48. Suppose an updatable view ParamountMovies is associated with Movies relation. Choose a right answer

Answer: an update on ParamountMovies is translated into Movies

49. Choose a right answer. Privileges cannot be granted on a view. When a privilege is granted, it cannot be revoked. An authorization ID may

Answer: An authorization ID maybe granted privileges from others or may give its privileges to others.

50. Which of the followings is not applied for the union of two relations which are bags?

Answer: We eleminate duplicated tuples.

51. Select the right statement. We can create constraint on a tuple as a whole. We can create constraint on a singel attribute. Every constraint has a name. If we don't define constraint.

Answer: All (2 We can create constraint / Every constraint )

52. Which of the followings is TRUE about E/R model?

Answer: All(3 Attribute associated/very simple type/cannot have the same)

53. Which of the following logical expressions is FALSE?

Answer: None (2 UNKNOWN OR TRUE / UNKNOWN AND TRUE)

54. Which of the followings is definition of tables in SQL?

Answer: Tables are the kind of relation that exist in the database....

55. Choose a right answer. A SQL environment is a DBMS running at some installation. Within a SQL environment are two special kind of processes: SQL clients and SQL servers.

Answer: All(2 SQL environment/ Within a SQL environment)

56. Each web server process can invoke one or more \_\_\_ to handle the request

Answer: Application server processes.

57. Which of the following statement is not DML?

Answer: CREATE

58. Which of the followings is not the extended operator of relational algebra?

Answer: Duplicate-elimination operator

59. Suppose two relation R(A,B) and S(C,D,E), where A, B, C, D, E are integer attributes.

Which of the following queries is invalid?

Answer: INSERT INTO R(A,B) SELECT \* FROM S;

60. WHich of the following is TRUE? Well-formed XML document must begin with a declaration that it is XML. Whatever tags can be used in XML document.

Answer: All(2 Well-formed XML/Whatever tags)

1. Choose the fAlse stAtement About the decomposition into BCNF?

Answer: The relAtions of the decomposition Are All in BCNF

2.\_\_ is the frAmework under which dAtA mAy exist And SQL operAtions on dAtA mAy be executed

Answer: SQL environment

3. Which of the followings is the extended operAtor of relAtionAl AlgebrA?

Answer: All of the others

4. Which stAtement is true regArding subqueries?

Answer: All of the others

5. In ODL, if we hAve A mAny-one relAtionship from clAss C to clAss D, then \_\_

Answer: ... just D,... SET

6. Which of the follwing stAtements is invAlid?

Answer: If A->B, B-->>C,A->C holds, too

7. Which of the following is Applied in PSM

Answer: All of the others

8.Which of the followings mAy be A pArt of well-formed XML document?

Answer: All of the others

9. Suppose the reAltion SALE(item, customer, quAntity, price) with more thAn billion tuples from the lArge dAtAbAse. We try to provide A rApid rAndom And sequentiAl Access to this tAble by \_\_\_

Answer: CreAting some indices

10. Suppose A reAltion PROJECT(projectID,projectNAme,locAtion,depArtment, ProjectLo1(projectID, projectNAme,depArtment) is An updAtAble view AssociAted to PROJECT where locAtion=1. EvAluAte the following stAtement: INSERT INTO ProjectLo1(projectID,projectNAme,depArtment) VALUES(200.'ERP1.0',1);

Answer: ...is no new tuple on ProjectLo1, And newtuple(200.'ERP 1.0',null, 1) on Project

11. Which of the followings is chArActeristic of UML?

Answer: ClAsses Are sets of objects, with stAtes And behAviors

12. SUppose R(A,B) And S(B,C) Are bAgs. R hAs two tuples (1,2),(2,3). S hAs three tuples (1,3),(3,2),(2,1).EvAluAte the following reAltionAl expression: gA,SUM(C)->SUMC(R\*S), where \* denotes the nAturAl join.

Answer: two tuple (1,1) And (2,2)

13. Which of the following stAtement is belong to DML?

Answer: GRANT

14.Suppose the relAtion Project(number,nAme,depArtment,locAtion).EvAluAte the following stAtement: SELECT distinct p1.locAtion FROM Project p1, Project p2 WHERE p1.locAtion = p2.locAtion AND p1.number<p2.number

Answer: ..there Are more thAn one projects

15. Suppose A reAltion PROJECT(projectID,projectNAme,locAtion,depArtment, ProjectLo1(projectID, projectNAme,depArtment) is An updAtAble view AssociAted to PROJECT where locAtion=1. EvAluAte the following stAtement: DELETE FROM ProjectLo1 WHERE depArtment=1;

Answer: ..whose vAlue on component depArtment is 1, And vAlue on component locAtion is 1,too

16.Suppose the following stAtement: CREAT TABLE EMPLOYEE( SSN INT PRIMARY KEY, FULLNAME NVARCHAR(100), GENDER CHAR(1) DEFAULT ' UNDEFINED', AGE INT DEFAULT '18', CHECK ((GENDER = 'F' AND AGE<55) OR (GENDER='M' AND AGE <60))); EvAluAte this stAtement in SQLSever 2005

Answer: ..successfully, newtAble nAme As EMPLOYEE is creAted

17.The responsibility of DAtAbAse mAnAgement system is \_\_

Answer: All of the others

18. Which of following stAtements is Allowed in SQLServer 2005

Answer: All of the others

19. which of the followings cAnnot be used to construct the complex type in XML SchemA

Answer: By using tAg

20. Suppose the relAtion tblEmployee(EmployeeID, EmployeeNAme,SAlAry,depArtment).Consider the following code in SQL Sever 2005: DECLARE @EmployeeID INT,@EmployeeNAme NVARCHAR(50),@SALARY DECIMAL(10,0); DECLARE myCursor CURSOR FOR Select EmployeeID, EmployeeNAme, SAlAry FROM tblEMPLOYEE WHERE depArtment =1; OPEN myCursor; FETCH NEXT FROM MyCursor INTO @EmployeeID, @EmployeeNAme, @SAlAry;IF @@FETCH\_STATUS<>0 PRINT '<<NONE>>'; WHILE @@FETCH\_STATUS=0 BEGIN PRINT @EmployeeID + ''@EmployeeNAme +' '+@SAlAry; FETCH NEXT FROM myCursor INTo @EmployeeID,@EmployeeNAme,@SAlAry;END CLOSE myCursor; DEALLOCATE myCursor; WhAt hAppens if we execute this code?

Answer: ..And prints out three vAlues for eAch existing employee in tblEmployee tAble

21. Suppose R(A,B) And S(B,C) Are bAgs. R hAs two tuples (1,1),(1,2).S hAs three tuples (1,2),(2,1),(2,2). EvAluAte the following DAtAlog rule: H(x) <- R(x,y) AND S(y,z) AND NOT R(x,z)

Answer: relAtion H hAs no tuples

22. Suppose the relAtion WorksOn(project, employee, hoursperweek).Consider the following constrAint: Nobody cAn't work more thAn 40 hours A week(for All his/her projects).How cAn we implement this constrAint in SQLServer 2005

Answer: ..A trigger to refuse All modificAtions violAting this constrAint

23. Which of the following DAtAlog rules is unsAfe

Answer: Q(x,y,z)<-U(x,y) AND T(x,y) AND NOT T(x,z)

24. Suppose two relAtions Project (number, nAme, locAtion, depArtment) And DepArtment(number, nAme).EvAluAte the following SQL stAtement: SELECT D.number, D.nAme, P.number, P.nAme FROM DepArtment D LEFT OUTER JOIN Project P ON (D.number = P.depArtment);

Answer: ..depArtment irrecpective of whether they control projects or not

25. Which of the following expression represents the below constrAint on relAtion R(A: int,B: int,C: int): For every tuple in R, the vAlue on A must be greAter thAn the vAlue on B or vAlue on C must be less thAn the sum of vAlue on A And vAlue on B

Answer: sA->B OR C < A + B( R ) =

26. which of the following stAtement is used to delete All dAtA from tAble EMPLOYEES except its schemA

Answer: DELETE FROM EMPLOYEES

27. which of the followings hAs the sAme meAning As Attribute-bAsed constrAint?

Ventity-bAsed constrAint

28. When we define An Attribute A As PRIMARY KEY of relAtion R, then \_\_\_\_\_\_\_\_\_\_\_\_

Answer: All of the others

29. An Attributes in\_\_\_\_\_\_\_\_\_\_\_\_ Are only integers And chArActer strings

Answer: ODL

30. How cAn we convert the subclAss structures to relAtions

Answer: contruct A single relAtion for whole hierArchy of entity sets

31. Which of the following stAtements is true About the User Defined Type?

Answer: All of the others

32. Which of the followings is true About SQL session?

Answer: The session lAsts As long As the connection thAt creAted it

33. Which of the followings is fAlse About weAk entity set?

Answer: The key for A weAk entity set includes the keys for All supporting entity sets

34. WhAt do we sAy About views?

Answer: All of the others

35. Given two relAtion tblEmployee(EmployeeID,EmployeeNAme,SAlAry,DepArtment) And tblDepArtment(DepArtmentID, DepArtmentNAme,MAnAger,AssignDAtA).Suppose thAt Scott is grAnted As followed: GRANT SELECT, UPDATE ON tblEmployee TO Scott; GRANT SELECT(DepArtmentID, MAnAger) ON tblDepArtment to Scott;Which of the following stAtements is AvAilAble for Scott?

Answer: All of the others

36. Which of the followings is right About Attributes on XML documents?

Answer: DTD is A grAmmAr-like set of rules to ensure thAt A XML document must be well-formed

37. Suppose the relAtion Employee(SSN, FullnAme,SAlAry, SupervisorSSN).Consider the following condition: NOT EXISTS(SELECT\*FROM EMPLOYEE WHERE SupervisorSSN NOT IN (SELECT SSN FROM EMPLOYEE)).Which of the following Activities mAy violAte this condition?

Answer: All of the others

38. Which of the followings evolves to informAtion integrAtion?

Answer: None of the others

39. Which of the followings wAs the first ever used for dAtA model

Answer: file System

40. Suppose the relAtion SALE(item, cusomter, quAntity, price) with more thAn billion tuples from the lArge dAtAbAse. We try to provide A rApid rAndom And sequentiAl Access to this tAble by\_\_\_\_\_\_\_\_\_

Answer: ..mAke the viewProjectNo1 unusAble

41. Suppose the relAtion WorksOn(project, employee, hoursperweek).Consider the following query: Listing All those projects with At leAst 10 workers.The condition 'At leAst 10 worker' must be\_\_\_\_\_\_\_\_

Answer: AppeAred in HAVING clAuse As condition con clAssified groups

42. An A Attribute is cAlled the key of relAtion R if\_\_\_\_\_\_\_\_\_\_\_\_

Answer: All of the others

43. Where cAnnot we use PSM procedures?

Answer: None of the others

44.View is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Answer: None of the others

45. \_\_\_\_\_\_\_mAnAge the interAtions with the user

Answer: The webserver-tier processes

46. Suppose the relAtion R(A,B,C,D) And set of FDs A->B,B->C,C->D. Suppose the projection R1=PA,C,D®

Answer: A->C, A->D

47. Suppose two relAtions tblEmployee(EmployeeID, EmployeeNAme, SAlAry, memberOf(\*tblDepArtment)) And tblDepArtment(DepArtmentID,DepArtmentNAme,mAnAgerIs(tblEmployee)).WhAt doeAs the meberOf(tblDepArtment) meAn?

Answer: ..is A single tuple of relAtion schemA nAmed tblDepArtment

48. Suppose two predefined types AuthorType And BookType in UDT. We hAve defined two relAtions nAmed Authors And Books bAsed on these types.To present the stAtement 'Which Authors hAve written which books we define the tAble Writes.Which of the followings is vAlid definition for Writes tAble?

Answer: W Author REF(Type),book REF(BookType));

49. Which of the followings is fAlse About E/R model?

Answer: .. very simple types, e.g integers or chArActer strings

50. Which of the following stAtements is true?

Answer: A recursion in DAtAlog cAn be expressed in relAtionAl AlgebrA

51. Suppose the relAtion Employee(SSN: chAr(12),Supervisor: chAr(12),Num\_Of\_Supervised: int),where Supervisor indicAtes thAt who supervises the current employee, And Num\_Of\_Supervised indicAtes thAt how mAny employees Are supervised by this employee.Which of the followings is not Allowed in SQL Server 2005

Answer: None of the others

52. Suppose the relAtion Employee(SSN, FullnAme,SAlAry, SupervisorSSN).Consider the following query: SELECT\*FROM Employee WHERE NOT EXISTS(SELECT\*FROM Employee WHERE SSN=SupervisorSSN)

Answer: .. successfully, And return All those employees who don't supervise Any other employee

53. Given two relAtion tblEmployee(EmployeeID,EmployeeNAme,SAlAry,DepArtment).Suppose we connected to SQL with Scott AuthorizAtion ID.Which of privileges must Scott hAve to execute the following stAtement: DELETE FROM tblEmployee WHERE EmployeeID IN(SELECT EmployeeID FROM tblEmployee WHERE depArtment IS NULL)

Answer: DELETE on tblEmployee

54. which of the followings doesn't tAke the key's condition 'no two tuples Agree on All Attributes of key'?

Answer: foreign key

55. Suppose we hAve two elements DepArtment And Project. The DepArtment element hAs A key nAmed depKey on the Attribute DepArtmentNo. The Project hAs An Attribute nAmed DepArtmentNo, And we'd like to define it As foreign key.Which of followings cAn be use?

Answer: <xs: keyref nAme="depRef" refers="depKey"><xs: selector: xpAth="Project"/><xs: field xpAth="DepArtmentN 0"/></xs: keyref>

56. suppose relAtion R(A,B,C,D,E) And set of FD's S={A->B,B->D,AD->C}.Find on the key of R

Answer: {A}

57. Suppose the relAtion Employee(SSN,NAme,SAlAry,DepArtment).Which of the followings returns All those employees with sAlAry exceeds sAlAry of All employees from depArtment 1

Answer: All of the others

58. Which of the followings is not true About XML documents

Answer: XML dAtA is presented in one or more documents

59. Suppose relAtion R(A,B,C,D,E) And set of FD's A->D,AD->C,C->BE.Compute {A}+

Answer: {A,D,C,B,E}

60. DAtAbAse users cAn connect to dAtAbAse mAnAgement system As\_\_\_\_\_\_\_\_\_\_\_\_

Answer: All of the others

61. Any CreAte commAnd mAybe reserved by using A \_\_\_ commAnd

Answer: Commit

62. Suppose A relAtion R(A,B,C) where All Attributes Are numeric And we'd like to creAte A modifying view. Which of followings is vAlid?

Answer: All of the others

63. The keyword WITH CUBE is used in \_\_\_clAuse

Answer: GROUP BY

64.Suppose two relAtions R(A,B) And S(C,D),where A,B,C,D,E Are interger Attributes.which of following queries is invAlid?

Answer: INSERT INTO R(A,B)SELECT \* FROM S

65.Which of the following is the responsibility od DTD?

Answer.All of the others.

66.Which of the following is TRUE About semi-structured dAtA?

Answer.It is self-decribing

67.Which of following keywords cAn be used in well-formed XML document?

Answer.All of the others

68.WHich of following is chArAteristic of object relAtionAl dAtA model?

Answer.All of the others.

69.WHich of following stAtement is not DML?

Answer.CREATE

70.Choose the fAlse stAtement About the decomposition into 3NF?

Answer.the decomposition hAs the dependency preservAtion proverty.

71.WHich of following is A disAdvAntAges of using index?

Answer.An index mAkes updAte operAtions becomes more complex.

72.WHich of following cAn AppeAr in PSM procedure definition?

Answer.All of the others.

73.WHich of following stAtement cAn be used in PSM procedure definition?

Answer.All of the others.

74.WHich of following relAtionAl operAtions Are considerAbly more efficient if we use the bAg model?

Answer.Difference.

75.Choose A right Answer

Answer.An AuthorizAtion ID mAy be grAnted privileges fromm others or mAy give its.

76.Which of the following stAtements is TRUE?

Answer.Key is the super key.

77.Choose the incorrect stAtement.

Answer.ClAsses Are sets of objects,with stAte And behAviors.

78.WHich of following is not the extended operAtor of relAtionAl AlgebrAb?

Answer.NAturAl join operAtors.

79.Which of the following is TRUE About E/R model?

Answer.All of the others.

80.Which of the following is TRUE?

Answer.All of the others.

81.The ER DiAgrAm uses three principle element types:

Answer.Entity sets,Attributes And ConstrAints.

82.Consider A relAtion with schemA R(A,B,C,D) And FD's BC.Which of the following is the key of R?

Answer.BC.

83.In A tree structure,A/An\_\_\_\_\_\_hAs no Arc out.

Answer.leAf node

84.\_\_\_\_\_\_\_connect web-clients to the dAtAbAse system,usuAlly over the Internet or possibly A locAl connection.

Answer.Web server proccesses.

85.DAtA Definition lAnguAge(DDL) is used to...

Answer.All of the others.

86.Which of the following hAs the sAme meAning As domAin-bAsed constrAint?

Answer.Attributes-bAsed constrAint

87.The result of(UNKNOWN OR TRUE) is.

Answer.TRUE

88.Suppose An updAtAble view PArAmountMovies is AssociAted with Movies relAtions.

Answer.An updAte on PArAmoutMovies is trAnslAted into Movies.

89.In PSM we cAn breAk out the loop by using\_\_\_\_\_\_\_ stAtement.

Answer.LEAVE

90.In SQL lAnguAge,the commAnd/stAtement thAt let you chAnge the schemA of A relAtion is:

Answer.Alter

91.EAch web server process cAn invoke one or more\_\_\_\_\_\_\_ to hAndle the request.

Answer.DAtAbAse server proccesses.

92.Select the right stAtement.

Answer.All of the others.

93.The keyword WITH ROLLUP is used in \_\_\_\_\_\_\_\_ clAuse

Answer.WHERE

94.Suppose A relAtion R hAs two not null numeric Attributes A,B.Which of the following queries do we use to count the number of tuples in R?

Answer. All of the others

95.A Atrribute A is cAlled the key of relAtion R if\_\_\_\_\_\_\_

Answer.All of the others

96.In referntiAl integrity constrAint,the referenced Attribute(s) must be \_\_\_\_\_or\_\_\_\_\_

Answer.PrimAry key,Unique key.

97.When we define An Attribute A As PRIMARY KEY of relAtions R,then\_\_\_\_\_\_\_

Answer.There Are no two tuples thAt hAve the sAme As vAlues of the A component.

98.Which of the following stAtement is vAlid?

Answer.All of the others.

99.Which of the following is the principle element type of ER diAgrAm?

Answer.All of the others

100.Which of the following logicAl expressions is FALSE?

Answer.None of the others.

101.WHich of the following is definition of tAbles in SQL?

Answer.TAbles Are the kind of relAtion thAt exists int the dAtAbAse....

102.Which of the follwing is TRUE About weAk entity set?

Answer.All of the others

103.Which of the following is not Applied for the union of two relAtions which Are bAgs?

Answer.We eliminAte duplicAted tuples

104.Which of the following is NOT A stAndArd Aggresion operAtor?

Answer.GROUP

105.Which of the following Action doesn't violAte this constrAint?

Answer.Delete An exist employee.

The DBMS Acts As An interfAce between whAt two components of An enterprise-clAss dAtAbAse system?

Answer DAtAbAse ApplicAtion And the dAtAbAse

Which of the following projects illustrAtes A dAtAbAse being designed from existing dAtA?

Answer A dAtAbAse using the Production DepArtment's spreAdsheets

Which of the following projects illustrAtes A dAtAbAse being designed As A new systems development project?

Answer A dAtAbAse designed to produce production reports for A new Production DepArtment mAnufActuring process

Which of the following products wAs An eArly implementAtion of the relAtionAl model developed by E.F. Codd of IBM?

Answer DB2

The following Are components of A dAtAbAse except

Answer reports

An ApplicAtion where only one user Accesses the dAtAbAse At A given time is An exAmple of A(n)

Answer single-user dAtAbAse ApplicAtion

Which of the following projects illustrAtes A dAtAbAse being designed As A redesign of An existing dAtAbAse?

Answer A dAtAbAse thAt will combine two dAtAbAses currently used by the Production DepArtment

An on-line commerciAl site such As AmAzon.com is An exAmple of A(n)

Answer e-commerce dAtAbAse ApplicAtion

Which of the following products wAs the first to implement true relAtionAl AlgebrA in A PC DBMS?

Answer R: bAse

SQL stAnds for

Answer Structured Query LAnguAge

BecAuse it contAins A description of its own structure, A dAtAbAse is considered to be

Answer self-describing

The following Are functions of A DBMS except

Answer creAting And processing forms

Helping people keep trAck of things is the purpose of A(n)

Answer dAtAbAse

Which of the following products implemented the CODASYL DBTG model?

Answer IDMS

An Enterprise Resource PlAnning ApplicAtion is An exAmple of A(n)

Answer multiuser dAtAbAse ApplicAtion

A DBMS thAt combines A DBMS And An ApplicAtion generAtor is

Answer Microsoft's Access

Which of the following is not considered to be A bAsic element of An enterprise-clAss dAtAbAse system?

Answer COBOL progrAms

The DBMS thAt is most difficult to use is

Answer OrAcle CorporAtion's OrAcle

1. The responsibility of DAtAbAse mAnAgement system is

Answer: Support the storAge/Give users the Ability/Allow users to creAte

2. Choose A incorrect stAtement

Answer: None of the others(DB is A collection/creAted/A collection)

3. Which of following is never used As dAtA model?

Answer: None of the others(RelAtionAl/GrAph-bAsed/HierArchicAl/Tree-bAsed)

4. DAtA model is A notAtion for describing dAtA or informAtion. The description consists of

Answer: Structure of dAtA/OperAtions on the dAtA/ConstrAins on the dAtA

5. When we define An Attribute A As UNIQUE KEY of the relAtion R, then

Answer: The A Attribute is considered/Tuple cAn hAve null/There Are not 2 tuples

6. Two relAtion R And S Are type compAtible if

Answer: They hAve the sAme number of Attributes/The domAin of corresponding

7. A two-dimesion tAble of dAtA is cAlled A

Answer: RelAtion

8. Which of the following Are properties of relAtions?

Answer: All of the others(EAch Attribute/There Are no mutivAlued/No two rows

9. A constrAint between two Attribute sets in A relAtion is cAlled

Answer: FunctionAl dependency

10. Given A relAtion R(A,B,C,D) with functionAl dependencies A->B, C->D. Find one key of R

Answer: {A,C}

11. Given A relAtion R(A,B,C,D) with functionAl dependencies A->C, C->D, AD->B. Which functionAl dependency violAtes BCNF condition?

Answer: C->D

12. Given A relAtion R(A,B,C,D). Which of following is triviAl?

Answer: AB -> A/AB-->A

13. Given A relAtion R(A,B,C,D) with functionAl dependencies A->B, C->D, D->B. Compute {C}+

Answer: {B,C,D}

14. The number of entity sets thAt pArticipAte in A relAtionship is cAlled the

Answer: Degree

15. A relAtionship between the instAnces of A single entity set is cAlled

Answer: BinAry

16. Every depArtment hAs one speciAl employee As mAnAger, And every employee mAy or mAy not be A mAnger of depArtment on which he is A member. This relAtionship is

Answer: One to mAny

Question 1

MArks: 1

Which stAtement is true?

Choose one Answer.

A. XML documents must hAve A root tAg

X b. All of the others

c. XML tAgs Are cAse sensitive

d. XML elements must be properly nested

Answer: All of the others(XML documents/tAgs/elements)

Question 2

MArks: 1

In A typicAl OLAP ApplicAtion, there is A centrAl relAtion or collection of dAtA, cAlled \_\_\_\_\_\_

Choose one Answer.

x A. the fAct tAble

b. All of the others

c. the dimension tAble

d. the stAr tAble

Answer: the fAct tAble

Question 3

MArks: 1

There is A wAy of describing XML dAtA, how?

Choose one Answer.

x A. XML uses A DTD to describe the dAtA

b. All of the others

c. XML uses A description node to describe dAtA

d. XML uses XSL to describe dAtA

Answer: XML uses A DTD to describe the dAtA

Question 4

MArks: 1

Given relAtion R(A,B) thAt hAs 2 tuples (1, 2) And (3, 4); relAtion S(B, C, D) hAs 3 tuples (2, 5, 6), (4, 7, 8) And (9, 10, 11). The nAturAl join of R And S hAs \_\_\_\_\_\_

Choose one Answer.

x A. 2 tuples (1, 2, 5, 6) And (3, 4, 7, 8)

b. 1 tuple (1, 2, 10, 11)

c. 2 tuples (1, 2, 2, 5) And (3, 4, 4, 7)

d. 2 tuples (1, 2, 3, 4) And (5, 6, 7, 8)

Answer: 2 tuples (1, 2, 5, 6) And (3, 4, 7, 8)

Question 5

MArks: 1

Suppose A schemA of relAtion SupplierProduct is SupplierProduct(No, SupplierID, ProductType) where No is A identifier, SupplierID is An identifer of eAch supplier, And ProducType is A type of product which this supplier provides. WhAt will be returned when the following SQL stAtement is executed?

SELECT SupplierID FROM SupplierProduct

GROUP BY SupplierID HAVING count (\*) IN

(SELECT count (distinct ProductType) FROM SupplierProduct);

Choose one Answer.

A. A listing of supplierIDs, which provide All product types

b. A listing of supplierIDs, which provide some product types

x c. A listing of supplierIDs, which provide A specified number of

product types

d. No result, the query is invAlid

Answer: A listing of supplierIDs, which provide A specified number of product types

Question 6

MArks: 1

Which SQL stAtement is used to return only different vAlues?

Choose one Answer.

x A. SELECT DISTINCT

b. SELECT DIFFERENT

c. SELECT UNIQUE

d. SELECT DIFFERENT ALL

Answer: SELECT DISTINCT

Question 7

MArks: 1

We cAn turn the result of A query into A dAtA cube by Appending \_\_\_\_\_\_ to A group-by clAuse

Choose one Answer.

A. WITH SUM

x b. WITH CUBE

c. All of the others

d. WITH AGGREGATE

Answer: WITH CUBE

Question 8

MArks: 1

Choose A well-formed XML document

Choose one Answer.

A. <?xml version="1.0"?>

<to>Tove</to><from>JAni</from><heAding>Reminder</heAding><body>Don't

forget me this weekend!</body>

x b. <?xml version="1.0"?>

<envelope><to>Tove</to><from>JAni</from><heAding>Reminder</heAding><body>Don't

forget me this weekend</body></envelope>

c. <?xml version="1.0"?>

<to>Tove</to><from>JAni</from><heAding>Reminder</heAding><body>Don't

forget me this weekend!</body></end>

d. None of the others

Answer: <?xml version="1.0"?><envelope><to>Tove</to><from>JAni</from><heAding>Reminder</heAding><body>Don't forget me this weekend</body></envelope>

Question 9

MArks: 1

The multiplicity of A binAry relAtionship could be \_\_\_\_\_

Choose one Answer.

A. mAny–to-mAny

b. one-to-mAny

x c. All of the others

d. one-to-one

Answer: All of the others(mAny-to-mAny/one-to-mAny/one-to-one)

Question 10

MArks: 1

Choose the wrong stAtement

Choose one Answer.

x A. None of the others

b. The dAtAbAse tier executes queries thAt Are requested from the

ApplicAtion tier

c. There cAn be mAny processes in the dAtAbAse tier And the processes

cAn be distributed over mAny mAchines or All be together on one

d. Since creAting connections to dAtAbAse tAkes significAnt time, we

normAlly keep A lArge number of connections open And Allow ApplicAtion

processes to shAre the connections

Answer: None of the others(The dAtAbAse/There cAn be mAny/Since creAting connections)

Question 11--------------------------------------------------------------------------------------------------

MArks: 1

Choose the wrong stAtement:

Choose one Answer.

x A. The subclAsses of A clAss in UML cAn be disjoint pArtiAl

b. The subclAsses of A clAss in UML cAn be disjoint overlApping

c. The subclAsses of A clAss in UML cAn be disjoint complete

d. The subclAsses of A clAss in UML cAn be overlApping pArtiAl

Answer: The subclAsses of A clAss in UML cAn be disjoint pArtiAl

Question 12 ---------------------------------

MArks: 1

Select the right stAtement

Choose one Answer.

x A. ReferentiAl integrity constrAint is Also cAlled foreign key constrAint

b. A foreign key constrAint cAn be Added or deleted using the 'Alter

TAble' commAnd

x c. All of the others

d. A foreign key in one tAble points to A PRIMARY KEY in Another tAble

Answer: All of the others (ReferentiAl integrity/A foreign key constrAint/A foreign key in one tAble)

Question 13

MArks: 1

Select the right stAtement

Choose one Answer.

A. InsteAd-of trigger is used to updAte the dAtAbAse tAbles AssociAted

with the view insteAd of updAting the view directly.

b. When A trigger is defined on A view, we cAn use INSTEAD OF in plAce

of BEFORE or AFTER.

x c. All of the others

d. When An event AwAkens the insteAd-of trigger, the Action of the

trigger is done insteAd of the event itself

Answer: All of the others(InsteAd-of-trigger/When A trigger is defined/When An event AwAkens)

Question 14

MArks: 1

The dAtAbAse lAnguAge thAt is used to query And modify the dAtAbAse is cAlled \_\_\_\_\_\_\_

Choose one Answer.

A. All of the others

b. DAtA Control LAnguAge

c. DAtA Definition LAnguAge

x d. DAtA MAnipulAtion LAnguAge

Answer: DAtA MAnipulAtion LAnguAge

Question 15 ---------

MArks: 1

Select the right stAtement

Choose one Answer.

x A. Assertion is A booleAn-vAlued SQL expression thAt must be true At

All times

b. Assertion is not pArt of the dAtAbAse schemA

c. Once creAted, An Assertion cAnnot be dropped unless you delete the

dAtAbAse

d. Assertion condition cAnnot be involved in mAny relAtions.

Answer: Assertion is A booleAn-vAlued SQL expression thAt must be true At All times

Question 16

MArks: 1

When A CHECK constrAint AssociAte to mAny tuples on one or more relAtions, we must creAte

Choose one Answer.

A. Attribute-bAsed CHECK constrAint

b. Tuple-bAsed CHECK constrAint

x c. Assertion

d. All of the others

e. DomAin-bAsed CHECK constrAint

Answer: Assertion

Question 17

MArks: 1

Choose the wrong stAtement

Choose one Answer.

A. The existence of An index on An Attribute mAy speed up the execution

of certAin queries

b. The most useful index on A relAtion is An index on its key.

c. None of the others

x d. An index mAkes updAte operAtions on A relAtion fAster

Answer: An index mAkes updAte operAtions on A relAtion fAster

Question 18 ------------------------------------------

MArks: 1

Consider the DAtAlog rule H(x,y) <- S(x, y) AND x >= y AND y < 3. RelAtion S(x, y) hAs 3 tuples (2, 3), (5, 3), And (3, 3). WhAt is About H?

Choose one Answer.

A. H hAs 2 tuples (3, 3) And (5, 3)

b. H hAs A tuple (3, 3)

x c. None of the others

d. H hAs A tuple (5, 3)

Answer: None of the others

Question 20

MArks: 1

Choose the right stAtement

Choose one Answer.

A. TrAnsAction is A collection of one or more operAtions on the

dAtAbAse thAt must be executed AtomicAlly. ThAt is, either All

operAtions Are performed or none of them is done.

b. In SQL, eAch stAtement is A trAnsAction by itself.

x c. All of the others

d. SQL Allows us to group severAl stAtements into A single trAnsAction.

Answer: All of the others(TrAnsAction is A collection/In SQL, eAch stAtement/SQL Allows us to group)

Question 21--------------------------------------------------------------------------------

MArks: 1

Suppose A relAtion PROJECT(projectID, projectNAme, locAtion, depArtment, ProjectLo1(projectID, projectNAme, depArtment) is An updAtAble view AssociAted to PROJECT where locAtion=1. EvAluAte the following stAtement: INSERT INTO ProjectLo1 (projectID, projectNAme, depArtment) VALUES (200,'ERP1.0',1);

Choose one Answer.

A. The query is executed, there is new tuple (200,'ERP1.0',1) on

ProjectLo1, And new tuple (200,'ERP1.0',1,1) on Project

b. The query is executed, there is no new tuple on ProjectLo1, And new

tuple (200,'ERP1.0',null,1) on Project

c. The query is executed, there is new tuple (200,'ERP1.0',1) on

ProjectLo1, And new tuple (200,'ERP1.0',null,1) on Project

x d. The query is executed but nothing hAppened on Project neither on

ProjectLo1

Answer: The query is executed but nothing hAppened on Project neither on ProjectLo1

Question 22

MArks: 1

Suppose the thetA join R3 : =R1?R2, where C is A condition thAt refers to Attributes of R1 And R2. Which of the followings is correct?

Choose one Answer.

A. EAch tuple t1 of R1 connect with one tuple t2 of R2

x b. EAch tuple t1 of R1 connect with some those tuple t2 of R2 thAt

sAtisfy C

c. EAch tuple t1 of R1 connect with All those tuple t2 of R2 thAt

sAtifsy C

d. None of the others

Answer: EAch tuple t1 of R1 connect with some those tuple t2 of R2 thAt sAtisfy C

Question 23

MArks: 1

Which of the following stAtement is NOT true:

Choose one Answer.

A. Problems such As redundAncy thAt occur when we try to crAm too much

into A single relAtion Are cAlled AnomAlies

b. If X is A key, then X is A super key

x c. A relAtion cAn hAve only one key

d. A set of one or more Attributes {A1, A2, ..., An} is A key for A

relAtion R if these Attributes functionAlly determine All other

Attributes of the relAtion R And these Attributes must be minimAl

Answer: A relAtion cAn hAve only one key

Question 24

MArks: 1

Which of the following is not A vAlid loop construct in PSM?

Choose one Answer.

A. REPEAT UNTIL END REPEAT;

b. LOOP END LOOP;

c. WHILE DO END WHILE;

x d. None of the others

Answer: None of the others(REPEAT UNTIL END REPEAT/LOOP END LOOP/WHILE DO END WHILE)

Question 25

MArks: 1

Select the right stAtement

Choose one Answer.

x A. All of the others

b. A view is A virtuAl tAble

c. Not All views Are updAtAble

d. With updAtAble views, the modificAtion is trAnslAted into An

equivAlent modificAtion on A bAse tAble

Answer: All of the others(A view is A virtuAl tAble/Not All views Are updAtAble/With updAtAble views)

Question 26--------------------------------------------------------------------- trAn sAction

MArks: 1

Which of the following isolAtion levels forbids the reAding of dirty dAtA?

Choose one Answer.

A. SET TRANSACTION ISOLATION LEVEL READ UNCOMMITED;

b. SET TRANSACTION ISOLATION LEVEL SERIALIZABLE;

c. SET TRANSACTION ISOLATION LEVEL READ COMMITTED;

x d. SET TRANSACTION ISOLATION LEVEL REPEATABLE READ;

Answer: SET TRANSACTION ISOLATION LEVEL REPEATABLE READ;

Question 29

MArks: 1

Which of the following is the correct definition of A procedure:

Choose one Answer.

A. CREATE PROCEDURE () RETURNS ;

b. All of the others

----c. CREATE PROCEDURE () ;

d. CREATE PROCEDURE () RETURNS RETURN ;

Answer: CREATE PROCEDURE ();

Question 30

MArks: 1

Which stAtement is true?

Choose one Answer.

A. All XML documents must hAve A DTD

b. All of the others

x c. All XML elements must be properly closed

d. All XML elements must be lower cAse

Answer: All XML elements must be properly closed

Question 31

MArks: 1

Select the wrong stAtement

Choose one Answer.

A. None of the others

b. An index cAn be creAted in A tAble to find dAtA more quickly And

efficiently

x c. A tAble cAn hAve only one index

d. The key for index cAn be Any Attribute or set of Attributes, And

need not be the key of the relAtion

Answer: A tAble cAn hAve only one index

Question 32

MArks: 1

Consider A relAtion with schemA R(A, B, C, D) And the set of FDs: BC -> D, D -> A, A -> B. Compute {AC}+

Choose one Answer.

A. {A, C, D}

b. {A, B, C}

c. {A, C}

x d. {A, B, C, D}

Answer: {A, B, C, D}

Question 33

MArks: 1

Consider A relAtion with schemA R(A, B, C) And the set of FDs: A -> B, A -> C, B -> A, B -> C, C -> A, C -> B, AB -> C, BC -> A, AC -> B, A -> BC, B -> AC, C -> AB. Find A minimAl bAsis for relAtion R.

Choose one Answer.

x A. A -> B, B -> C, C -> A

b. All of the others

c. AC -> B, BC -> A

d. AC -> B, BC -> A, A -> BC

Answer: A -> B, B -> C, C -> A

Question 34

MArks: 1

Choose the wrong stAtement

Choose one Answer.

A. A user defined type (UDT) cAn be the type of A tAble

b. None of the others

c. A user defined type cAn be the type of An Attribute belonging to

some tAble

x d. A user defined type (UDT) cAnnot be the type of A tAble

Answer: A user defined type (UDT) cAnnot be the type of A tAble

Question 35

MArks: 1

A type of An Attribute thAt cAn be used As pointer to A user-defined type (UDT) is cAlled \_\_\_\_\_\_

Choose one Answer.

A. pointer types

b. None of the others

x c. reference types

d. linking types

Answer: reference types

Question 36

MArks: 1

Which of the following is not A vAlid privilege in SQL?

Choose one Answer.

x A. PROCEDURE

b. TRIGGER

c. EXECUTE

d. REFERENCES

Answer: PROCEDURE

Question 37

MArks: 1

In the three-tier Architecture, the function of the ApplicAtion tier is to \_\_\_\_\_\_\_

Choose one Answer.

x A. Execute the business logic of the orgAnizAtion operAting the dAtAbAse

b. All of the others

c. Perform queries And modificAtions At the request of the ApplicAtion

servers

d. MAnAge the interActions with the user

Answer: Execute the business logic of the orgAnizAtion operAting the dAtAbAse

Question 38

MArks: 1

Select the right stAtement

Choose one Answer.

x A. UpdAting views Are Allowed if query involves A single bAse relAtion

And contAins A cAndidAte key of bAse relAtion

b. UpdAting views Are Allowed if query involves AggregAtion or grouping

operAtions

c. UpdAting views Are Allowed if query involves multiple bAse relAtions.

d. All of the others

Answer: UpdAting views Are Allowed if query involves A single bAse relAtion And contAins A cAndidAte key of bAse relAtion

Question 39

MArks: 1

Given tAble MovieStAr defined As follows: CREATE TABLE MovieStAr( nAme CHAR(30) PRIMARY KEY, Address VARCHAR(256), gender CHAR(1) CHECK (gender IN ('M','F')), birthdAte DATE NOT NULL )

Which of the following query is not vAlid?

Choose one Answer.

x A. INSERT INTO MovieStAr VALUES ('Tom Cruz', '123 Little Rd, LA city',

'M', NULL);

b. INSERT INTO MovieStAr(nAme, gender, birthdAy) VALUES ('Tom Cruz',

'M', '1973-09-12 00: 00: 00');

c. INSERT INTO MovieStAr VALUES ('Tom Cruz', NULL, 'M', '1973-09-12

00: 00: 00');

d. INSERT INTO MovieStAr(nAme, Address, gender, birthdAy) VALUES ('Tom

Cruz', NULL, 'M', '1973-09-12 00: 00: 00');

Answer: INSERT INTO MovieStAr VALUES ('Tom Cruz', '123 Little Rd, LA city', 'M', NULL);

Question 40

MArks: 1

Suppose the relAtion tblEmployee(EmployeeID, EmployeeNAme, SAlAry, depArtment). Consider the following code in SQL Server 2005:

DECLARE @EmployeeID INT, @EmployeeNAme NVARCHAR(50), @SALARY DECIMAL(10,0);

DECLARE myCursor CURSOR FOR Select EmployeeID, EmployeeNAme, SAlAry FROM

tblEMPLOYEE WHERE depArtment=1;

OPEN myCursor;

FETCH NEXT FROM myCursor INTO @EmployeeID,@EmployeeNAme,@SAlAry;

IF @@FETCH\_STATUS <> 0

PRINT '<<NONE>>';

WHILE @@FETCH\_STATUS = 0

BEGIN

PRINT @EmployeeID+' '+@EmployeeNAme+' <mAilto: '+@EmployeeNAme+'>

'+@SAlAry <mAilto: '+@SAlAry>;

FETCH NEXT FROM myCursor INTO @EmployeeID,@EmployeeNAme,@SAlAry;

END

CLOSE myCursor;

DEALLOCATE myCursor;

WhAt hAppens if we execute this code?

Choose one Answer.

x A. It's executed successfully, And prints out three vAlues for eAch

existing employee in tblEmployee tAble

b. It's executed successfully, but nothing is displAyed in output

c. It's executed successfully, And the output is the simple text '<>'

d. It cAn not be executed successfully.

Answer: It's executed successfully, And prints out three vAlues for eAch existing employee in tblEmployee tAble

Question 41 ---------------------------

MArks: 1

Which of the following constructs cAn be used in PSM?

Choose At leAst one Answer.

x A. LOOP ... END LOOP;

b. WHILE .... DO ...

c. DO ... WHILE ....

d. FOR ... DO ...

Answer: LOOP ... END LOOP;

Question 43

MArks: 1

List All the movies thAt hAve length less thAn 100 And were produced by

A studio nAme other thAn ‘Fox’. Select the right Answer.

Choose one Answer.

A. Selection NOT(length=100) AND NOT(studioNAme=‘Fox’)(Movies)

x b. None of the others

c. Selection length<100 AND studioNAme <>‘Fox’(Movies)

d. Selection NOT(length=100 OR studioNAme=‘Fox’)(Movies)

Answer: None of the others (Section NOT/length/NOT)

Question 44

MArks: 1

Which of the following is considered AnomAly?

Choose one Answer.

x A. All of the others

b. informAtion mAy be chAnged in one tuple, but mAy not be chAnged in

other tuple(s)

c. if A set of vAlues becomes empty, we mAy lose other informAtion As A

side effect

d. informAtion mAy be repeAted unnecessArily in severAl tuples

Answer: All of the others(informAtion mAy/if A set of vAlues/informAtion mAy be repeAted)

Question 45

MArks: 1

Suppose the relAtion Employee(SSN, FullnAme, SAlAry, SupervisorSSN).

Consider the following condition:

NOT EXISTS (SELECT \* FROM EMPLOYEE WHERE SupervisorSSN NOT IN (SELECT

SSN FROM EMPLOYEE)).

Which of the following Activities mAy violAte this condition?

Choose one Answer.

A. Insert new employee

b. Delete existing emplyee

x c. All of the others

d. UpdAte existing employee

Answer: All of the others(Insert new/Delete existing/UpdAte existing)

Question 47

MArks: 1

Choose the right Answer:

Choose one Answer.

x A. DuplicAte-eliminAtion operAtor is used to convert A bAg to A set

b. DuplicAte-eliminAtion operAtor is used to Add duplicAte tuple to A

relAtion

c. None of the others

d. DuplicAte-eliminAtion operAtor is used to convert A set to A bAg

Answer: DuplicAte-eliminAtion operAtor is used to convert A bAg to A set

Question 48

MArks: 1

Suppose relAtion R1 hAs n1 Attributes And t1 tuples, relAtion R2 hAs n2 Attributes And t2 tuples, then the CArtesiAn Product R3 = R1 x R2 hAs \_\_\_\_\_\_\_\_

Choose one Answer.

A. n1\*n2 Attributes, And t1\*t2 tuples

b. n1\*n2 Attributes, And t1+t2 tuples

c. n1+n2 Attributes, And t1\*t2 tuples

d. n1+n2 Attributes, And t1+t2 tuples

Answer: n1+n2 Attributes, And t1\*t2 tuples

Question 49

MArks: 1

Suppose relAtion R(A,B,C,D) with FD's A?B, B?D, CD?A. This relAtion is decomposed into 3 relAtions S1={A,D}, S2={A,C}, S3={B,C,D}. Is this decomposition lossless join?

Choose one Answer.

A. Yes

x b. No

Answer: No

Question 50

MArks: 1

Which is not A correct nAme for An XML element?

Choose one Answer.

A. &ltNote>

b. &lt1dollAr>

c. All of the others

d. &lthAv1>

Answer: All of the others(&ItNode>/&It1dollAr>/&IthAv1>

Question 53

MArks: 1

The degree of A relAtionship is \_\_\_\_\_\_

Choose one Answer.

A. The number of binAry relAtionships

b. The number of Attributes in A relAtion

c. The number of entities involved with the relAtionship

d. The number of tuples in A relAtion

Answer: The number of entities involved with the relAtionship

DAtA modeling mAy be the most importAnt pArt of the systems development process becAuse:

Answer: DAtA chArActeristics Are importAnt in the design of progrAms And other systems components

A business rule:

Answer: All of the Above: Define, Assert, Controls

Business rules should be determined primArily by interviewing executives in the business.

Answer: FAlse

The common types of entities Are:

Answer: All: Strong, WeAk, AssociAtive

A property or chArActeristic of An entity type thAt is of interest to the orgAnizAtion is cAlled A(n):

Answer: Attribute

A relAtionship is An AssociAtion between Attributes.

Answer: FAlse

A good dAtA nAme should be:

Answer: reAdAble, unique, And repeAtAble

A multivAlued Attribute is An Attribute thAt is common to mAny entities.

Answer: FAlse

A person's nAme, birthdAy, And sociAl security number Are All exAmples of:

Answer: Attributes

A(n) \_\_\_\_\_ is the relAtionship between A weAk entity type And its owner.

Answer: identifying relAtionship

The \_\_\_\_\_ specifies the number of instAnces of one entity thAt cAn (or must) be AssociAted with eAch instAnce of Another entity.

Answer: cArdinAlity constrAint

The degree of A relAtionship is the number of entity types thAt pArticipAte in A relAtionship.

Answer: True

A ternAry relAtionship is A simultAneous relAtionship between more thAn three entity types.

Answer: FAlse

Which is NOT A bAsic construct of An E-R model?

Answer: Identifiers

An Attribute thAt cAn be cAlculAted from relAted Attribute vAlues is cAlled A \_\_\_\_\_Attribute

Answer: derived

An Attribute thAt uniquely identifies An entity, And consists of A composite Attribute is cAlled A(n):

Answer: Composite identifier

An entity thAt AssociAtes the instAnces of one or more entity types And contAins Attributes specific to the relAtionships is cAlled A(n):

Answer: AssociAtive entity

The number of entity types thAt pArticipAte in A relAtionship is cAlled the:

Answer: Degree

A relAtionship between the instAnces of A single entity type is cAlled A \_\_\_\_\_relAtionship.

Answer: UnAry

An entity type nAme should AlwAys be A singulAr noun.

Answer: True

A simultAneous relAtionship Among the instAnces of three entity types is cAlled A \_\_\_\_\_relAtionship.

Answer: ternAry

A \_\_\_\_\_ specifies the number of instAnces of one entity thAt cAn be AssociAted with eAch instAnce of Another entity.

Answer: CArdinAlity constrAint

A relAtionship where the minimum And mAximum cArdinAlity Are both one is A(n) \_\_\_\_\_ relAtionship.

Answer: MAndAtory one

A mutuAlly exclusive relAtionship is one in which:

Answer: An entity instAnce cAn pArticipAte in only one of severAl AlternAtive relAtionships

A student cAn Attend five clAsses, eAch with A different professor. EAch professor hAs 30 students. The relAtionship of students to professors is A \_\_\_\_\_ relAtionship.

Answer: MAny-to-mAny

The totAl quiz points for A student for An entire semester is A(n) \_\_\_\_\_ Attribute.

Answer: Derived

A join operAtion:

Answer: cAuses two dispArAte tAbles to be combined...

DAtA Definition lAnguAge (DDL) is used to:

Answer: declAre dAtAbAse schemAs

A dAtAbAse is An orgAnized collection of \_\_\_ relAted dAtA.

Answer: logicAlly

The relAtion dAtA model consists of which component?

Answer: All: DAtA integrity, DAtA mAnipulAtion, DAtA structure

A rule thAt CANNOT be violAte by dAtAbAse users is cAlled A:

Answer: constrAint

In the SQL lAnguAge, the\_\_\_ stAtement is usedto creAt dAtAbAse definitions

Answer: creAte tAble

Which of the following types of dAtA cAn be stored in AdAtAbAse

Answer: All: Voice, letters, numbers

Given A relAtion R(A,B,C,D) with dependencies A-->C, C->D. Which of the followings doesn't hold in R?

Answer: A->C

WhAt is the property thAt good decomposition must hAve?

Answer: All: EliminAtion of AnomAlies, RecoverAbility of informAtion, PreservAtion of dependencies

Given A relAtion R(A,B,C,D) with functionAl dependencies A->BC, C->D,D->A. Find one key of R

Answer: {A}

FunctionAl dependency is A constrAint on \_\_\_\_\_\_\_\_\_\_

Answer: Two sets of Attributes of A relAtion

One Attribute is cAlled prime if \_\_\_\_\_\_\_\_\_\_

Answer: It is A member of key

Choose the fAlse stAtement About the decomposition into BCNF?

Answer: The decomposition hAs the dependency preservAtion property

Choose A right stAtement

Answer: If X is A key, then X is A super key

The principle strAtegy to convert subclAsses to relAtions is \_\_\_\_\_\_\_\_\_

Answer: All: Follow, TreAt, Use

Choose A wrong Answer

Answer: UML offers multi-wAy relAtionships

Choose A right Answer

Answer: All: the vAlue, Entity set, RelAtionship

When we sAy one clAss hAs mAny students, And A student is A member of one clAss, we meAn thAt the multiplicity of this relAtionship from clAss entity set to student entity set is \_\_\_\_\_\_\_\_\_

Answer: One - mAny

An Attribute (or Attributes) thAt uniquely identifies eAch row in A relAtion is cAlled A/An:

Answer: primAry key

Choose A wrong stAtement

Answer: E/R model represents both the structure of dAtA And the operAtions on dAtA

The number of entity types thAt pArticipAte in A relAtionship is cAlled the :

Answer: degree

An Attribute of the relAtion R to which the ? is Applied is cAlled

Answer: Grouping Attribute

To convert A bAg to A set, we use \_\_\_\_\_\_\_\_\_ operAtor

Answer: d

Suppose R(A,B,C) is bAg, S=sA>B(R). Choose A right Answer

Answer: S hAs the sAme schemA As R, And S hAs less or equAl tuples thAn R hAs

Suppose A relAtion R(A,B,C) As A bAg, And A relAtion S=pA,B(d(R)) As A bAg, too. R hAs 4 tuples (1,2,2), (1,3,2), (1,2,2), And (1,2,3). S hAs\_\_\_\_\_\_\_\_\_\_ tuples

Answer: 3

Suppose A relAtion R(A,B) hAs 4 tuples (1,2), (2,3), (1,1), (2,4). A result of ?A,SUM(B)?SUM(R) is \_\_\_\_\_\_\_\_\_\_

Answer: A relAtion hAs 2 tuples (1,3), (2,7)

Suppose A relAtion R(A,B) And S(B,C) As A bAgs. R hAs 2 tuples (1,2),(1,4) And S hAs 3 tuples (2,3), (4,5) And (4,5). The thetA-join R ? \_R.B<S.B S hAs \_\_\_\_\_\_\_\_\_\_ tuples

Answer: 2

Choose one Answer.

Answer: This operAtion is vAlid And the result hAs three tuples

The result of ((10<NULL) OR TRUE) AND (UNKNOWN OR FALSE) is

Answer: UNKNOWN

Which of following is not pArt of DAtA MAnipulAtion LAnguAge (DML)?

Answer: CREATE stAtement

Suppose A relAtion R hAs two Attributes A And B. Choose A vAlid query

Answer: SELECT A, B, COUNT(\*) FROM R GROUP BY A, B

Choose the right stAtement

Answer: All: Sub-queries cAn AppeAr, return A single, return relAtions

Which of following condition is TRUE

Answer: (UNKNOWN OR TRUE) OR (UNKNOWN AND FALSE)

Suppose A relAtion R hAs two numeric non-null Attributes A, B. Which of the following queries do we use to count the number of tuples in R ?

Answer: COUNT(\*) COUNT(A) COUNT(B)

Suppose A relAtion S hAs three numeric Attributes A, B, And C. Choose A vAlid query

Answer: SELECT A, SUM(\*) FROM S GROUP BY A HAVING COUNT(B)<20

NULL vAlue is \_\_\_\_\_\_\_\_\_\_

Answer: All: unknown, inApplicAble, withheld

Choose A wrong Answer

Answer: Every relAtion hAs only one index

Choose A right Answer

Answer: A virtuAl view is defined by An expression like A query

Given the relAtion Movies(title, yeAr, length, genre, studioNAme).Select the right query to creAte A view with the titles And studio nAmes of All movies thAt were produced in 1980

Answer: CREATE VIEW OldMovies AS SELECT title, studioNAme FROM Movies where yeAr=1980

When A user mAkes contAct, A \_\_\_\_\_\_\_\_\_\_ response to the request, And the user becomes A client of this \_\_\_\_\_\_\_\_\_\_ process.

Answer: webserver, webserver

Function pArAmeters mAy be of mode \_\_\_\_\_\_\_\_\_\_

Answer: IN

Which of the followings is right About well-formed XML documents?

Answer: All: involve, hAve, begin

The DBMS Acts As An interfAce between whAt two components of An enterprise-clAss dAtAbAse system?

Answer: DAtAbAse ApplicAtion And the dAtAbAse

Which of the following projects illustrAtes A dAtAbAse being designed from existing dAtA?

Answer: A dAtAbAse using the Production DepArtment's spreAdsheets

Which of the following projects illustrAtes A dAtAbAse being designed As A new systems development project?

Answer: A dAtAbAse designed to produce production reports for A new Production DepArtment mAnufActuring process

Which of the following products wAs An eArly implementAtion of the relAtionAl model developed by E.F. Codd of IBM?

Answer: DB2

The following Are components of A dAtAbAse except \_\_\_\_\_\_\_\_ .

Answer: reports

An ApplicAtion where only one user Accesses the dAtAbAse At A given time is An exAmple of A(n) \_\_\_\_\_\_\_\_ .

Answer: multiuser dAtAbAse ApplicAtion

Which of the following projects illustrAtes A dAtAbAse being designed As A redesign of An existing dAtAbAse?

Answer: A dAtAbAse thAt will combine two dAtAbAses currently used by the Production DepArtment

An on-line commerciAl site such As AmAzon.com is An exAmple of A(n) \_\_\_\_\_\_\_\_ .

Answer: e-commerce dAtAbAse ApplicAtion

Which of the following products wAs the first to implement true relAtionAl AlgebrA in A PC DBMS?

Answer: R: bAse

SQL stAnds for \_\_\_\_\_\_\_\_ .

Answer: Structured Query LAnguAge

BecAuse it contAins A description of its own structure, A dAtAbAse is considered to be \_\_\_\_\_\_\_\_ .

Answer: self-describing

The following Are functions of A DBMS except \_\_\_\_\_\_\_\_ .

Answer: creAting And processing forms

Helping people keep trAck of things is the purpose of A(n) \_\_\_\_\_\_\_\_ .

Answer: dAtAbAse

Which of the following products implemented the CODASYL DBTG model?

Answer: IDMS

An Enterprise Resource PlAnning ApplicAtion is An exAmple of A(n) \_\_\_\_\_\_\_\_ .

Answer: multiuser dAtAbAse ApplicAtion

A DBMS thAt combines A DBMS And An ApplicAtion generAtor is \_\_\_\_\_\_\_\_ .

Answer: Microsoft's Access

You hAve run An SQL stAtement thAt Asked the DBMS to displAy dAtA in A tAble nAmed USER\_TABLES. The results include columns of dAtA lAbeled "TAbleNAme," "NumberOfColumns" And "PrimAryKey." You Are looking At \_\_\_\_\_\_\_\_ .

Answer: metAdAtA

Which of the following is not considered to be A bAsic element of An enterprise-clAss dAtAbAse system?

Answer: COBOL progrAms

The DBMS thAt is most difficult to use is \_\_\_\_\_\_\_\_ .

Answer: OrAcle CorporAtion's OrAcle

The relAtionAl dAtAbAse model wAs creAted by E.F. Codd.

Answer: True

A dAtAbAse is cAlled "self-describing" becAuse it contAins A description of itself

Answer: True

In A dAtAbAse, dAtA is stored in spreAdsheets which hAve rows And columns.

Answer: FAlse

A dAtAbAse hAs dAtA And relAtionships.

Answer: True

DAtAbAses creAte informAtion.

Answer: True

One of the reAsons why OODBMSs hAve not been widely used for business informAtion systems is thAt OOP is obsolete.

Answer: FAlse

A dAtAbAse AdministrAtor designs, constructs, And mAnAges the dAtAbAses.

Answer: True

In An enterprise-clAss dAtAbAse system, business users interAct directly with dAtAbAse ApplicAtions, which directly Access the dAtAbAse dAtA.

Answer: FAlse

ApplicAtions Are progrAms thAt interAct directly with the dAtAbAse.

Answer: FAlse

The purpose of A dAtAbAse is to help people stop using spreAdsheets.

Answer: FAlse

Microsoft Access is An enterprise-clAss dAtAbAse product.

Answer: FAlse

Structured Query LAnguAge (SQL) is An internAtionAlly recognized stAndArd lAnguAge thAt is understood by All commerciAl dAtAbAse mAnAgement system products.

Answer: True

The XML fAmily of stAndArds is very importAnt in dAtAbAse processing todAy.

Answer: True

A dAtAbAse has A built-in cApAbility to creAte, process And Administer itself.

Answer: FAlse

Enterprise Resource PlAnning (ERP) is An exAmple of A single user dAtAbAse.

Answer: FAlse

Prior to 1970, All data was stored in separAte files, which were mostly stored on reels of magnetic tape.

Answer: True

A database design may be bAsed on existing dAta.

Answer: True

The DBMS rAnked As being the "eAsiest to use" in the text is OrAcle CorporAtion's OrAcle.

Answer: FAlse

DatAbase Applications Are seldom intended for use by A single user.

Answer: FAlse

The DBMS rAnked As being the "hArdest to use" in the text is Microsoft's SQL Server.

Answer: FAlse

In An Enterprise-clAss dAtAbAse system, business users interAct directly with dAtAbAse ApplicAtions thAt interAct with the DBMS, which directly Accesses the dAtAbAse dAtA.

Answer: True

Suppose R And S Are bAgs, And t is the tuple thAt AppeArs n-times And m-times in R And S (n=0, m=0).How mAny time dose t tupe AppeAr in

Answer: In {R^S}, t AppeArs (n + m) times, In {R U S}, t AppeArs MIN(n, m) times, In {R \ S}, t AppeArs MAX(0, n - m) times

Arithmetic operAtors on NULL vAlues will return

Answer: A NULL vAlue

CompArisons with NULL vAlues will return

Answer: UNKNOWN

Choose the fAlse stAtement About the decomposition in to BCNF

Answer: the relAtions of the...

\_\_\_is the frAmework under which dAtA Ay exist And SQL operAtions on dAtA mAy beexecuted

Answer: SQL environment

which of the following is the extended operAtor of relAtionAl AlgebrA?

Answer: All: Outerijoins, Grouping, DuplicAte

Which stAtement is true regArding subqueries?

Answer: All: The NOT, = ANY, the IN

In ODL, if we hAve A mAy- one relAtionship from clAss C to clAss D,then\_\_

Answer: InclAss C, the type of the relAtionship is just D, while the type of the relAtionship in D is SET

which of the following stAtement is invAlid?

Answer: if A->B, B->->C hold in relAtion R, then A=>Vholds,too

which of the following is Applied in PSM

Answer: All: Cursors, queries, Subqueries

Which of the followings mAy be A pArt of well-formed XML document?

Answer: All

sUPPOSE THE REALTION sAle(ITEM, CUSTOMER, quAntity, price) with more thAn billion tupeles from the lArge dAtAbAse. We try to provideA rApid rAndom And sequentiAl Access to this tAble by\_\_\_

Answer: CreAting some indicies

Which of the followings is chArActeristic of UML?

Answer: ClAsses Are sets of objects, with sAtAte And behAviors

Suppose R(A,B) And S(B,C) Are bAgs. R hAs two tuples (1,2), (2,30. S hAsthree tuples (1,3), (3,2), (2,1). EvAlue the following relAtionAl expression: gA,SUM(C)-> SUMC(R\*S), where \* denotes the nAturAl join

Answer: the result relAtion hAs two tuples (1,1) And (2,2)

Which of the followings is belong to DML?

Answer: GRANT

The responsibility of DAtAbAse mAnAgement system is\_\_

Answer: All: Allowusers, Support, Give

Which of the following DAtAlog rules is unsAfe?

Answer: Q(x,y,z)<- U(x,y) AND T(x,y) AND NOT T(x,z)

Which of the following stAtement is used to delete All dAtA from tAble EMPLOYEES except it's schemA?

Answer: DELETE FROM EMPLOYEES

Which of the followings hAs the sAme meAning As Attribute-bAsed constrAint?

Answer: Entity-bAsed constrAint

When we define An Attribute A As PRIMARY KEY of relAtion R, then\_\_

Answer: All: tuple must be not, there Are no two, no more primAry key...

An Attributesin\_\_\_Are only integers And chArActer strings

Answer: ODL

how cAn we convert the subclAss structure to relAtions?

Answer: Contruct A single relAtion for whole hierArchy ofenitity sets

Choose A right Answer

Answer: A virtuAl view is defined by An expression like A query

The most useful index on A relAtion is An index on its key. This is becAuse:

Answer: Queries in which A vAlue for the key is ...

Which of the following is not A benefit of using views?

Answer: None of the others

Suppose An updAtAble view FoxMovies is AssociAted with Movies relAtion. Choose A right Answer

Answer: All: An updAte on Movies is trAnslAted into FoxMovies vA ngc lAi,Drop FoxMovies does not Affect Movies

A clustering index is \_\_\_\_\_\_

Answer: An index thAt is defined on non-key field(s) And there cAn be more thAn one record corresponding to A vAlue of the indexing field

Choose the invAlid stAtement

Answer: Views Allow eAch user to hAve his or her own view of the dAtAbAse, which creAtes dAtA redundAncy

Suppose A relAtion R(A,B,C) where All Attributes Are numeric. Choose A vAlid query to creAte An updAtAble view

Answer: None of the others

Which of the fllowing stAtement is true About User Defined Type?

Answer: All: An UDT, the 0-0, mAny relAtions

Which of the following is true About SQL session?

Answer: the sessions lAsts As long As the conection thAt creAted it

Which of the followings is fAlse About weAk entity set?

Answer: THe key for A weAk

WhAt do we sAy A bout views?

Answer: All: droping : A bAse tAble, A view, views dont exist

Which of the followings is right About Attributes on XML documents?

Answer: DTD is A grAmmAr

Which of the followings evolves to informAtion integrAtion?

Answer: None of other

Which of the followings wAs the first ever used for dAtA model?

Answer: File system

An A Attribute is cAlled the key of relAtion R if\_\_\_

Answer: All: it functionAlly, Its closure, there Are no

Where cAnnot we use PSM procedures

Answer: None of the others

View is\_\_\_\_

Answer: None of the others

\_\_\_mAnAge the interAtions with the user

Answer: the webserver-tier processes

Which of the followings is fAlse About E/R model?

Answer: Attributes Are very simply types...

Which of the following stAtement is true?

Answer: A recursion in DAtAlog cAn be expressed in relAtionAl AlgebrA

Which of the followings doesn't tAke the key's condition 'no two tuples Aree on All Attributes f key'?

Answer: Foregn key

Suppose relAtion R(A,B,C,D), And set of FD's S={A->B, B->D,AD->C}. find one key of R

Answer: {A}

Which of the followings is not true About XML documents?

Answer: XML dAtA is presented in one or more document

Suppose relAtion R(A,B,C,D,E) And se of FDs A->D, AD->C, C->BE. Compute {A}+

Answer: {A,B,C,D,E}

dAtAbAse users cAn connect to dAtAbAse mAnAgement system As

Answer: All: DAtAbAse designer, DAtAbAse AdinistrAtor, DAtAbAse end-user

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Choose a right answer.

[A]

A SOL environment is the framework under which data may exist and SQL operations on data may be executed

[C]

Within a SQL environment are two special kinds of processes: SQL clients and SQL servers.

[D]

A SQL environment is a DBMS running at some installation.

[B]\*

Answer: All of the others

Schema-altering commands are known as«« commands.

[A]

Data Manipulation Language

[B]

Data Controlling Language

[D]

None of the others[C]\*

Answer: Data Definition Language

Referential integrity Constraints control relationships between \_.

[A]

operations of an object

[C]

attributes in a table

[D]

database instances

[B]\*

Answer: tables in a database

Choose the right statement below to declare zero or one occurrence of an Element in DTD.

[B]

<IELEMENT element-name (child-name+)>

[C]

<'ELEMENT element-name (child-name\*)>

[D]

<IELEMENT element-name (child-name)>

[A]

Answer: <"ELEMENT element-name (child-name?)>

Given the relation Employee(SSN. FNAME. LNAME. SALARY). Select the right query below to find the

employee(s) who has the lowest salary in the company

[B]

SELECT LNAME. FNAME. SALARY FROM Employee WHERE SALARY >= ALL (SELECT SALARY FROM

Employee)

[C]

SELECT LNAME. FNAME. SALARY FROM Employee WHERE SALARY < MAX (SELECT SALARY FROM

Employee)

[D]

None of the others

[A]\*

Answer: SELECT LNAME. FNAME. SALARY FROM Employee WHERE SALARY IN (SELECT MIN(SALARY) FROM Employee)

Given a relation R(A.B.C.D). Which of the followings is trivial?

[A]

A->BCD

[C]

A->AB

[D]

A->->AB

[B]\*

Answer: A->->BCD

Which of the following is NOT a standard aggregation operator?

[A]

SUM

[B]

AVG

[D]

COUNT

[C]\*

Answer: GROUP

Select the well-formed XML

[A]

All of the others

[C]

<? xml version - "1 0' ?>

<MovieData>

<Movie Me-'StarWaf\*><Year>1997</Year></Movie>

</Movies>

[D]

<? xml version = 1 0 7>

<MovieData>

<Movie trtle-"StarWar"><Year>1997</Movie></Year>

</MovieData>

[B]\*

Answer: <? xml version = "1.0" ?><MovieData><Movie tiHe="StarWar\*><Year>1997</Yearx/MovJe></MovieData>

Which of the followings is true?

[B]

The ER model is a low level database design

IC]

The ER model represents the operation on data

[D]

All of the others

[A]\*

Answer: The Entity Relationship (ER) model represents the structure of data graphically

In the three-tier architecture, the database tier's function is to

[B]

Execute the business logic of the organization operating the database.

[C]

Manage the interactions with the user.

[D]

Execute queries that are requested from the application tier

[A]

Answer: All of the others.

Choose a right answer

[A]

When a privilege is granted, it cannot be revoked

[B]

Privileges cannot be granted on a view

[D]

All of the others

[C]\*

An authorization ID may be granted privileges from others or may grve its privileges to others

Exception handler in PSM is defined as follows:

DECLARE <where to go next> HANDLER FOR condition list> <statement>

The <where to go next> clause can be:

[A]

UNDO

[B]

EXIT

[D]

CONTINUE

[C]\*

Answer: All of the others

In SQL language, the command/statement that let you add an attribute to a relation is

Answer: Alter

Choose the right statement

[B]

The syntax to remove a trigger is. DROP TRIGGER <trigger\_name>

[C]

Use ALTER TRIGGER to change the definition of a trigger

[D]

You can remove a trigger by dropping it or by dropping the trigger table

Answer: All of the others

Consider the Dalalog rule H(xy) <- Sfx. y) AND x > 2 AND y < 6. Relation S(x y) has 3 tuples (2.3). (3.5). and

(4.6). What is about H?

[A]

H has a tuple (2.3)

[B]

H has 3 tuples (2.3) and (3.5) and (4.6)

IC]

H has 2 tuples (2.3) and (3.5)

[D]\*

Answer: H has a tuple (3.5)

Select the valid query to declare the foreign key presC# of the relation Studiolname. address. presC#) that references

the cert of the relation MovieExeclname. address. cert#. netWorth):

[A]

All of the others.

[B]

CREATE TABLE Studio (name CHAR(30) PRIMARY KEY. address VARCHAR(256). presC# INT FOREIGN

KEY):

[C]

CREATE TABLE Studio (name CHAR(30) PRIMARY KEY. address VARCHAR(256). presC# INT UNIQUE

KEY REFERENCES MovieExec):

[D]\*

Answer: CREATE TABLE Studio (name CHAR(30) PRIMARY KEY. address VARCHAR(256). presC# INT REFERENCES Movie Exec (cert#));

Choose the right statement

[A]

XML Schema allows us to declare simple types, such as integer or float and even complex types

[C]

XML schema provides us the ability to declare keys and foreign keys.

[D]

XML Schema is an alternative way to provide a schema for XML documents

[B]\*

Answer: All of the others

The relational operator that yields all possible pairs of rows from two tables is known as a \_

[A]

Union

[B]

Selection

[D]

Join

[C]\*

Answer: Product

Consider a relation with schema R(A, B, CD) and FD's BC-> D, D-> A, A-> B. Which of the following is the key of

R?

[A]

BD

[B]

D

[C]

AB

[D]\*

Answer: BC

The ER Diagram uses three pnnciple element types:

[A]

Entity sets. Constraints, and Relationships

[B]

Entity sets. Attributes and Constraints

IC]

Attributes. Constraints, and Relationships

[D]\*

Answer: Entity sets. Attributes, and Relationships

In PSM. the difference between 3 stored procedure and a function is that

[A]

A function has the return statement.

[B]

We can declare local variables in a function.

[D]

Loops are not allowed in a function.

[C]\*

Answer: All of the others

Selecl Ihe right syntax for HAVING clause in SOL

[A]

SELECT <list of attributes>

FROM <list of tables>

WHERE <conditions on tuples>

HAVING <conditions on groups>

GROUP BY <list of attributes>

[C]

SELECT < list of attributes>

FROM < list of tables>

HAVING <conditions on groups>

WHERE <conditions on tuples>

GROUP BY <list of attributes>

[D]

All of the others

[B]\*

Answer: SELECT <list of attributes>FROM <list of tables>WHERE <conditions on tuples>GROUP BY <list of attributes>HAVING <conditions on groups>

Select the right answer.

[B]

Tags in XML are text surrounded by triangular brackets (for example, <\_>).

[C]

An XML tag can be a single tag with no matching closing tag (for example. <foo />

[D]

Tags in XML comes in matching pairs, with an opening tag like <foo> and a matched closing tag like</foo>

[A]\*

Answer: All of the others

Given relations R(A.B) and S(B.C.D). The result of natural join of the relations R and S has

[A]

Only two attributes R B and SB

[B]

None of the others

[C]

Only attribute B

[D]\*

Answer: Attributes A B. C. D

Given relation U(A, B, C) that has 2 tuples (1,2,3) and (4,5,6), and relation V(B(C, D) that has 2 tuples (2,3,10) and

(2,3,11). Choose the right answer below;

[A]

None of the others.

[B]

The outer join of U and V is the relation R(A, B, C, D) that has 2 tuples (1.2, 3.10) and (1,2, 3,11).

[D]

The outer join of U and V is the relation R(A. B. C. D) that has only 1 tuple (NULL. 4.5.6)

[C]\*

Answer: The outer join of U and V is the relation R(A. B. C. D) that has 3 tuples (1.2.3.10) .(1.2.3.11) and (4.5.6. NULL).

Data Definition language (DDL) is used to \_

[A]\*

Answer: declare database schemas

[B]

connect to database and query database

[C]

query database and modify the database

[D]

All of the others

The result of (UNKNOWN OR TRUE) is

[A]

UNKNOWN

[B]

FALSE

[D]

NULL

[C]\*

Answer: TRUE

In Java Database Connectivity (JDBC). before we can execute SQL statements), we need to \_

[A]

Create a cursor.

[B]

Create an environment

[C]

Create a description.

[D]\*

Answer: Establish a connection to the database and create statement(s).

Choose the right answer

[A]

A User-Defined Type (UDT) in SQL can be the type of a table

[B]

A UDT can be the type of an attribute belonging to some table

[C]

The form of UDT definition is: CREATE TYPE T AS (<primitive type | attribute declarations>)

[D]\*

Answer: All of the others

Choose a right answer

[A

The object-relational model is the extension of the relation model with new features such as structured types,

methods, identifiers for tuples, and references

[B]

Object-relation model allows a non-atomic type that can be a relation schema which is called nested relation

[C]

In object-relational model, the type of an attribute can be a reference to a tuple with a given schema or a set of

references to tuples with a given schema

[D]\*

Answer: All of the others

Which of following is never used as a data model'

[A]

Hierarchical data model

[B]

Relational data model

[C]

Tree-based data model

[D]

Graph-based data model

|[E]\*

Answer: None of the others

Select the right answer

[A]

Virtual views do not exist physically

[B]

Virtual views are defined by an expression like a query

[C]

Virtual views can be queried and can even be modified

[D]\*

Answer: All of other

Select the right statement to declare MovieStar to be a relation whose tuples are of type StarType. Note; StarType is

a user-defined type that has its definition as follows;

CREATE TYPE StarType AS (

nameCHAR(30).

address CHAR(IOO) };

[A]

CREATE TABLE MovieStar (name StarType)

PI

CREATE TABLE MovieStar (name StarType PRIMARY KEY);

[C]\*

Answer: CREATE TABLE MovieStar OF StarType Q;

[D]

None of the others

Suppose an updatable view ParamountMovies is associated with Movies relation. Choose a nght answer

[A]\*

Answer: Drop Movies relation also delete the view ParamountMovies

[B]

Drop ParamountMovies also delete Movies

IC]

An update on ParamountMovies is translated into Movies

[D]

None of the others

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* \*

The most useful index on a relation is an index on its key. This is because

[A]

Answer: The index on non key attribute(s) runs slower

[B]

The search operation based on the primary key is commonly used.

IC]

The index on non key attribute(s) makes update operations to the relation more complex and time-consuming

[D]

All of the others

Which of the following statements is true?

[A]

I3NF implies BCNF

[B]

Multi-valued Dependency (MVD) implies Fourth Normal form (4NF)

[C]\*

Answer: 4NF implies BCNF and BCNF implies 3NF

[D]

None of the others

The binary relationship between classes in UML is called -

[A]

Relation

[B]\*

Answer: Association

[C]

Aggregation

[D]

Composition

Choose the right statement

[A]

Sub-queries return a single constant this constant can be compared with another value in a WHERE clau;

[B]

Sub-queries return relations, that can be used in WHERE clause

[C]

Sub-queries can appear in FROM clauses, followed by a tuple variable

[D]\*

Answer: All of the others

Which of the following statements is true?

[A]

in BCNF condition, the left side of every non trivial FD must be a super key.

[C]

Any two-attribute relation is in BCNF

[D]

BCNF condition guarantees the anomalies do not exist

[B]\*

Answer: All of the others

Given the relation Movies(title, year, length, genre. studioName). Select the right query to create a View with the

titles and studio names of all movies that were produced in 1980

[A]

CREATE VIEW OldMovies SELECT title. studioName FROM Movies WHERE year-1980

[B]

CREATE VIEW OldMovies SELECT title, year FROM Movies WHERE year=1980

[C]\*

Answer: CREATE VIEW OldMovies AS SELECT title. studioName FROM Movies WHERE year=1980

[D]

None of the others

Given the relation Employee(SSN. FNAME. LNAME. SALARY. DepartmentNo). Select the right query below to

count the number of employees in each department

[A]

SELECT COUNTf) FROM Employee

[B]\*

Answer: SELECT DepartmentNo. COUNT(\*) FROM Employee GROUP BY DepartmentNo

[C]

SELECT DepartmentNo. COUNT(\*) FROM Employee

[D]

None of the others

Consider a relation with schema R(A, B. C. D) and FD's A-> B. A-> C. C -> D. Which ofthe following is the {A}+

?

[A]

{A}

[B]\*

Answer: {A B C D}

[C] {A. B. C}

[D] {A.B}

To create a constraint (for example, referential integrity constraint) on a relation, the owner ofthe schema must have

[A]

UNDER privilege

[B]\*

Answer: REFERENCES privilege

[C]

UPDATE privilege

[D]

EXECUTE privilege

Choose a wrong answer.

[A]\*

Answer: Relational algebra can express recursion.

[B]

Basic relational algebra can be expressed in Datalog rule(s).

IC]

Single Datalog rule can be expressed in relational algebra.

[D]

Datalog does not support bag operations.

In DTD. the main difference between PCDATA and CDATA is

[A]\*

Answer: PCDATA is text that will be parsed by a parser and tags inside the text will be treated as markup and entities will be

expanded CDATA is text that will NOT be parsed by a parser and tags inside the text wil

NOT be treated as markup and entities will not be expanded.

[B]

All of the others

[C]

CDATA is used to assert something about the allowable content of elements where as PCDATA is used as a

common type for attribute

[D]

There's no difference between PCDATA and CDATA.

\_\_\_\_\_\_\_authorizes access to database, coordinate, monitor its use, acquiring software, and hardware resources.

[A]

All of the others

[B]\*

Answer: Database administrator

[C]

Database designer

[D]

Database end-user

The key for a weak entity set E is\_

[A]\*

Answer: Zero or more attributes ofE and key attributes from supporting entity sets

[B]

The set of attributes of supporting relationships for E

IC]

The set of attnbutes of supporting entity sets

[D]

Zero or more attributes of E

Choose right answer(s).

[A]

NULL value is unknown, inapplicable, or withheld

[B]

Comparisons with NULL values will return UNKNOWN

[C]

Arithmetic operators on NULL values will return a NULL value

[D]\*

Answer: All of orther

Choose the right statement

[A]

The action associated with the trigger executes no matter what the condition is hold or not

[B]

Triggering events do not support INSERT and DELETE.

[C]

All ofthe others.

[D]\*

Answer: When the trigger is awakened, it tests a condition. If the condition is satisfied, the action associated with the trigger

is executed.

Four characteristics of transactions are

[A]

None ofthe others

[B]

Read uncommitted, Read committed, Repeatable read, Serializable

[C]

Atomicity. Isolation. Concurrency. Durability

[D]\*

Answer: Atomicity. Isolation. Consistency. Durability

Select the right answer

[A]

An index is a data structure used to speed access to tuples of a relation, given values of one or more attributes

[B]

The key for index can be any attribute or set of attributes, and need not be the key ofthe relation

[C]

We can think of the indexas a binary search tree of (key, locations) pairs in which a key a is associated with a set of

locations of the tuples

[D]\*

Answer: All of orther

Choose the right statement to grant the INSERT and SELECT privileges on table Movies to users torn' and jerry'

[A]

GRANT SELECT. INSERT on Movies

[B]

GRANT SELECT. INSERT on Movies TO torn, jerry CASCADE

[C]\*

Answer: GRANT SELECT. INSERT on Movies TO torn, jerry WITH GRANT OPTION

[D]

GRANT SELECT. INSERT on Movies TO ALL

When declaring foreign key constraint for relation A thai references relation B. the referenced attnbute(s) ofthe

relation B must be declare as\_\_\_\_\_\_\_

[A]\*

Answer: UNIQUE or PRIMARY KEY

[B]

FOREIGN KEY

[C]

INDEX KEY

[D]

All of the others

Choose an incorrect statement

[A]\*

Answer: None of the others

[B]

Database is created and maintained by a DMBS

IC]

Database is a collection of information that exists over a long penod of time

[D]

Database is a collection of data that is managed by a DBMS

Select the right statement

[B]

Every constraint has a name. If we don't define constraint's name explicitly, then DBMS automatically generates a

name for it

[C]

We can create constraint on a tuple as a whole.

[D]

We can create constraint on a single attribute

[A]\*

Answer: All of the others

A class in UML is similar to\_\_\_

[A]

A Relationship in E/R model

[B]

An attribute in E/R model

[C]\*

Answer: An entity set in E/R model

[D]

None ofthe others

Given relations Movies(title, year, length, genre. studioName. producer#). MovieExec(name. address. cert#). and

Studio(name. address. presC#). Suppose we have the materialized view that finds the name -

ofthe producer of a given movie as follows:

CREATE MATERIALIZED VIEW MovieProd AS

SELECT title, year, name

FROM Movies. MovieExec

WHERE producer# ± cert#

Which of the following modification will affect the MovieProd materialized view?

[A]

Insert a new tuple into Studio

[B]

Delete a tuple from Studio

[C]\*

Answer: Insert a new tuple into Movies or delete a tuple from Movies

[D]

None of the others

Special thanks to Sky .. thienlaodai .. kotaro .. lacmatdoideplao

1. Choose the false statement about the decomposition into BCNF?

Answer:The relations of the decomposition are all in BCNF

2.\_\_ is the framework under which data may exist and SQL operations on data may be executed

Answer:SQL environment

3. Which of the followings is the extended operator of relational algebra?

Answer:All of the others

4. Which statement is true regarding subqueries?

Answer:All of the others

5. In ODL, if we have a many-one relationship from class C to class D, then \_\_

Answer:... just D,... SET

6. Which of the follwing statements is invalid?

Answer:If A->B, B-->>C,A->C holds, too

7. Which of the following is applied in PSM

Answer:All of the others

8.Which of the followings may be a part of well-formed XML document?

Answer:All of the others

9. Suppose the realtion SALE(item, customer, quantity, price) with more than billion tuples from the large database. We try to provide a rapid random and sequential access to this table by \_\_\_

Answer:Creating some indices

10. Suppose a realtion PROJECT(projectID,projectName,location,department, ProjectLo1(projectID, projectName,department) is an updatable view associated to PROJECT where location=1. Evaluate the following statement: INSERT INTO ProjectLo1(projectID,projectName,department) VALUES(200.'ERP1.0',1);

Answer:...is no new tuple on ProjectLo1, and newtuple(200.'ERP 1.0',null, 1) on Project

11. Which of the followings is characteristic of UML?

Answer:Classes are sets of objects, with states and behaviors

12. SUppose R(A,B) and S(B,C) are bags. R has two tuples (1,2),(2,3). S has three tuples (1,3),(3,2),(2,1).Evaluate the following realtional expression: gA,SUM(C)->SUMC(R\*S), where \* denotes the natural join.

Answer:two tuple (1,1) and (2,2)

13. Which of the following statement is belong to DML?

Answer: GRANT

14.Suppose the relation Project(number,name,department,location).Evaluate the following statement: SELECT distinct p1.location FROM Project p1, Project p2 WHERE p1.location = p2.location AND p1.number<p2.number

Answer:..there are more than one projects

15. Suppose a realtion PROJECT(projectID,projectName,location,department, ProjectLo1(projectID, projectName,department) is an updatable view associated to PROJECT where location=1. Evaluate the following statement: DELETE FROM ProjectLo1 WHERE department=1;

Answer:..whose value on component department is 1, and value on component location is 1,too

16.Suppose the following statement: CREAT TABLE EMPLOYEE( SSN INT PRIMARY KEY, FULLNAME NVARCHAR(100), GENDER CHAR(1) DEFAULT ' UNDEFINED', AGE INT DEFAULT '18', CHECK ((GENDER = 'F' AND AGE<55) OR (GENDER='M' AND AGE <60))); Evaluate this statement in SQLSever 2005

Answer:..successfully, newtable name as EMPLOYEE is created

17.The responsibility of Database management system is \_\_

Answer:all of the others

18. Which of following statements is allowed in SQLServer 2005

Answer:all of the others

19. which of the followings cannot be used to construct the complex type in XML Schema

Answer:By using tag

20. Suppose the relation tblEmployee(EmployeeID, EmployeeName,Salary,department).Consider the following code in SQL Sever 2005:DECLARE @EmployeeID INT,@EmployeeName NVARCHAR(50),@SALARY DECIMAL(10,0); DECLARE myCursor CURSOR FOR Select EmployeeID, EmployeeName, Salary FROM tblEMPLOYEE WHERE department =1; OPEN myCursor; FETCH NEXT FROM MyCursor INTO @EmployeeID, @EmployeeName, @Salary;IF @@FETCH\_STATUS<>0 PRINT '<<NONE>>'; WHILE @@FETCH\_STATUS=0 BEGIN PRINT @EmployeeID + ''@EmployeeName +' '+@Salary; FETCH NEXT FROM myCursor INTo @EmployeeID,@EmployeeName,@Salary;END CLOSE myCursor; DEALLOCATE myCursor; What happens if we execute this code?

Answer:..and prints out three values for each existing employee in tblEmployee table

21. Suppose R(A,B) and S(B,C) are bags. R has two tuples (1,1),(1,2).S has three tuples (1,2),(2,1),(2,2). Evaluate the following Datalog rule: H(x) <- R(x,y) AND S(y,z) AND NOT R(x,z)

Answer:relation H has no tuples

22. Suppose the relation WorksOn(project, employee, hoursperweek).Consider the following constraint: Nobody can't work more than 40 hours a week(for all his/her projects).How can we implement this constraint in SQLServer 2005

Answer:..a trigger to refuse all modifications violating this constraint

23. Which of the following Datalog rules is unsafe

Answer:Q(x,y,z)<-U(x,y) AND T(x,y) AND NOT T(x,z)

24. Suppose two relations Project (number, name, location, department) and Department(number, name).Evaluate the following SQL statement: SELECT D.number, D.name, P.number, P.name FROM Department D LEFT OUTER JOIN Project P ON (D.number = P.department);

Answer:..department irrecpective of whether they control projects or not

25. Which of the following expression represents the below constraint on relation R(A:int,B:int,C:int): For every tuple in R, the value on A must be greater than the value on B or value on C must be less than the sum of value on A and value on B

Answer:sA->B OR C < A + B( R ) =

26. which of the following statement is used to delete all data from table EMPLOYEES except its schema

Answer:DELETE FROM EMPLOYEES

27. which of the followings has the same meaning as attribute-based constraint?

Ventity-based constraint

28. When we define an attribute A as PRIMARY KEY of relation R, then \_\_\_\_\_\_\_\_\_\_\_\_

Answer:all of the others

29. An attributes in\_\_\_\_\_\_\_\_\_\_\_\_ are only integers and character strings

Answer:ODL

30. How can we convert the subclass structures to relations

Answer:contruct a single relation for whole hierarchy of entity sets

31. Which of the following statements is true about the User Defined Type?

Answer:all of the others

32. Which of the followings is true about SQL session?

Answer:The session lasts as long as the connection that created it

33. Which of the followings is false about weak entity set?

Answer:The key for a weak entity set includes the keys for all supporting entity sets

34. What do we say about views?

Answer:all of the others

35. Given two relation tblEmployee(EmployeeID,EmployeeName,Salary,Department) and tblDepartment(DepartmentID, DepartmentName,Manager,AssignData).Suppose that Scott is granted as followed: GRANT SELECT, UPDATE ON tblEmployee TO Scott; GRANT SELECT(DepartmentID, Manager) ON tblDepartment to Scott;Which of the following statements is available for Scott?

Answer:all of the others

36. Which of the followings is right about attributes on XML documents?

Answer:DTD is a grammar-like set of rules to ensure that a XML document must be well-formed

37. Suppose the relation Employee(SSN, Fullname,Salary, SupervisorSSN).Consider the following condition: NOT EXISTS(SELECT\*FROM EMPLOYEE WHERE SupervisorSSN NOT IN (SELECT SSN FROM EMPLOYEE)).Which of the following activities may violate this condition?

Answer:all of the others

38. Which of the followings evolves to information integration?

Answer:None of the others

39. Which of the followings was the first ever used for data model

Answer:file System

40. Suppose the relation SALE(item, cusomter, quantity, price) with more than billion tuples from the large database. We try to provide a rapid random and sequential access to this table by\_\_\_\_\_\_\_\_\_

Answer:..make the viewProjectNo1 unusable

41. Suppose the relation WorksOn(project, employee, hoursperweek).Consider the following query:Listing all those projects with at least 10 workers.The condition 'at least 10 worker' must be\_\_\_\_\_\_\_\_

Answer:appeared in HAVING clause as condition con classified groups

42. An A attribute is called the key of relation R if\_\_\_\_\_\_\_\_\_\_\_\_

Answer:all of the others

43. Where cannot we use PSM procedures?

Answer:None of the others

44.View is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Answer:None of the others

45. \_\_\_\_\_\_\_manage the interations with the user

Answer:The webserver-tier processes

46. Suppose the relation R(A,B,C,D) and set of FDs A->B,B->C,C->D. Suppose the projection R1=PA,C,D®

Answer:A->C, A->D

47. Suppose two relations tblEmployee(EmployeeID, EmployeeName, Salary, memberOf(\*tblDepartment)) and tblDepartment(DepartmentID,DepartmentName,managerIs(tblEmployee)).What doeas the meberOf(tblDepartment) mean?

Answer:..is a single tuple of relation schema named tblDepartment

48. Suppose two predefined types AuthorType and BookType in UDT. We have defined two relations named Authors and Books based on these types.To present the statement 'Which authors have written which books we define the table Writes.Which of the followings is valid definition for Writes table?

Answer:W author REF(Type),book REF(BookType));

49. Which of the followings is false about E/R model?

Answer:.. very simple types, e.g integers or character strings

50. Which of the following statements is true?

Answer:A recursion in Datalog can be expressed in relational algebra

51. Suppose the relation Employee(SSN:char(12),Supervisor:char(12),Num\_Of\_Supervised:int),where Supervisor indicates that who supervises the current employee, and Num\_Of\_Supervised indicates that how many employees are supervised by this employee.Which of the followings is not allowed in SQL Server 2005

Answer:None of the others

52. Suppose the relation Employee(SSN, Fullname,Salary, SupervisorSSN).Consider the following query: SELECT\*FROM Employee WHERE NOT EXISTS(SELECT\*FROM Employee WHERE SSN=SupervisorSSN)

Answer:.. successfully, and return all those employees who don't supervise any other employee

53. Given two relation tblEmployee(EmployeeID,EmployeeName,Salary,Department).Suppose we connected to SQL with Scott authorization ID.Which of privileges must Scott have to execute the following statement: DELETE FROM tblEmployee WHERE EmployeeID IN(SELECT EmployeeID FROM tblEmployee WHERE department IS NULL)

Answer:DELETE on tblEmployee

54. which of the followings doesn't take the key's condition 'no two tuples agree on all attributes of key'?

Answer:foreign key

55. Suppose we have two elements Department and Project. The Department element has a key named depKey on the attribute DepartmentNo. The Project has an attribute named DepartmentNo, and we'd like to define it as foreign key.Which of followings can be use?

Answer:<xs:keyref name="depRef" refers="depKey"><xs:selector:xpath="Project"/><xs:field xpath="DepartmentN 0"/></xs:keyref>

56. suppose relation R(A,B,C,D,E) and set of FD's S={A->B,B->D,AD->C}.Find on the key of R

Answer:{A}

57. Suppose the relation Employee(SSN,Name,Salary,Department).Which of the followings returns all those employees with salary exceeds salary of all employees from department 1

Answer:all of the others

58. Which of the followings is not true about XML documents

Answer:XML data is presented in one or more documents

59. Suppose relation R(A,B,C,D,E) and set of FD's A->D,AD->C,C->BE.Compute {A}+

Answer:{A,D,C,B,E}

60. Database users can connect to database management system as\_\_\_\_\_\_\_\_\_\_\_\_

Answer:all of the others

61. Any Create command maybe reserved by using a \_\_\_ command

Answer:Commit

62. Suppose a relation R(A,B,C) where all attributes are numeric and we'd like to create a modifying view. Which of followings is valid?

Answer:All of the others

63. The keyword WITH CUBE is used in \_\_\_clause

Answer:GROUP BY

64.Suppose two relations R(A,B) and S(C,D),where A,B,C,D,E are interger attributes.which of following queries is invalid?

Answer:INSERT INTO R(A,B)SELECT \* FROM S

65.Which of the following is the responsibility od DTD?

Answer.All of the others.

66.Which of the following is TRUE about semi-structured data?

Answer.It is self-decribing

67.Which of following keywords can be used in well-formed XML document?

Answer.All of the others

68.WHich of following is charateristic of object relational data model?

Answer.All of the others.

69.WHich of following statement is not DML?

Answer.CREATE

70.Choose the false statement about the decomposition into 3NF?

Answer.the decomposition has the dependency preservation proverty.

71.WHich of following is a disadvantages of using index?

Answer.An index makes update operations becomes more complex.

72.WHich of following can appear in PSM procedure definition?

Answer.all of the others.

73.WHich of following statement can be used in PSM procedure definition?

Answer.all of the others.

74.WHich of following relational operations are considerably more efficient if we use the bag model?

Answer.Difference.

75.Choose a right answer

Answer.An authorization ID may be granted privileges fromm others or may give its.

76.Which of the following statements is TRUE?

Answer.Key is the super key.

77.Choose the incorrect statement.

Answer.Classes are sets of objects,with state and behaviors.

78.WHich of following is not the extended operator of relational algebrab?

Answer.Natural join operators.

79.Which of the following is TRUE about E/R model?

Answer.all of the others.

80.Which of the following is TRUE?

Answer.all of the others.

81.The ER Diagram uses three principle element types:

Answer.Entity sets,Attributes and Constraints.

82.Consider a relation with schema R(A,B,C,D) and FD's BC.Which of the following is the key of R?

Answer.BC.

83.In a tree structure,a/an\_\_\_\_\_\_has no arc out.

Answer.leaf node

84.\_\_\_\_\_\_\_connect web-clients to the database system,usually over the Internet or possibly a local connection.

Answer.Web server proccesses.

85.Data Definition language(DDL) is used to...

Answer.all of the others.

86.Which of the following has the same meaning as domain-based constraint?

Answer.Attributes-based constraint

87.The result of(UNKNOWN OR TRUE) is.

Answer.TRUE

88.Suppose an updatable view ParamountMovies is associated with Movies relations.

Answer.An update on ParamoutMovies is translated into Movies.

89.In PSM we can break out the loop by using\_\_\_\_\_\_\_ statement.

Answer.LEAVE

90.In SQL language,the command/statement that let you change the schema of a relation is:

Answer.Alter

91.Each web server process can invoke one or more\_\_\_\_\_\_\_ to handle the request.

Answer.Database server proccesses.

92.Select the right statement.

Answer.All of the others.

93.The keyword WITH ROLLUP is used in \_\_\_\_\_\_\_\_ clause

Answer.WHERE

94.Suppose a relation R has two not null numeric attributes A,B.Which of the following queries do we use to count the number of tuples in R?

Answer. All of the others

95.A atrribute A is called the key of relation R if\_\_\_\_\_\_\_

Answer.All of the others

96.In referntial integrity constraint,the referenced attribute(s) must be \_\_\_\_\_or\_\_\_\_\_

Answer.Primary key,Unique key.

97.When we define an attribute A as PRIMARY KEY of relations R,then\_\_\_\_\_\_\_

Answer.There are no two tuples that have the same as values of the A component.

98.Which of the following statement is valid?

Answer.All of the others.

99.Which of the following is the principle element type of ER diagram?

Answer.All of the others

100.Which of the following logical expressions is FALSE?

Answer.None of the others.

101.WHich of the following is definition of tables in SQL?

Answer.Tables are the kind of relation that exists int the database....

102.Which of the follwing is TRUE about weak entity set?

Answer.All of the others

103.Which of the following is not applied for the union of two relations which are bags?

Answer.We eliminate duplicated tuples

104.Which of the following is NOT a standard aggresion operator?

Answer.GROUP

105.Which of the following action doesn't violate this constraint?

Answer.Delete an exist employee.

The DBMS acts as an interface between what two components of an enterprise-class database system?

Answer Database application and the database

Which of the following projects illustrates a database being designed from existing data?

Answer A database using the Production Department's spreadsheets

Which of the following projects illustrates a database being designed as a new systems development project?

Answer A database designed to produce production reports for a new Production Department manufacturing process

Which of the following products was an early implementation of the relational model developed by E.F. Codd of IBM?

Answer DB2

The following are components of a database except

Answer reports

An application where only one user accesses the database at a given time is an example of a(n)

Answer single-user database application

Which of the following projects illustrates a database being designed as a redesign of an existing database?

Answer A database that will combine two databases currently used by the Production Department

An on-line commercial site such as Amazon.com is an example of a(n)

Answer e-commerce database application

Which of the following products was the first to implement true relational algebra in a PC DBMS?

Answer R:base

SQL stands for

Answer Structured Query Language

Because it contains a description of its own structure, a database is considered to be

Answer self-describing

The following are functions of a DBMS except

Answer creating and processing forms

Helping people keep track of things is the purpose of a(n)

Answer database

Which of the following products implemented the CODASYL DBTG model?

Answer IDMS

An Enterprise Resource Planning application is an example of a(n)

Answer multiuser database application

A DBMS that combines a DBMS and an application generator is

Answer Microsoft's Access

Which of the following is not considered to be a basic element of an enterprise-class database system?

Answer COBOL programs

The DBMS that is most difficult to use is

Answer Oracle Corporation's Oracle

1. The responsibility of Database management system is

Answer: Support the storage/Give users the ability/Allow users to create

2. Choose a incorrect statement

Answer: None of the others(DB is a collection/created/a collection)

3. Which of following is never used as data model?

Answer: None of the others(Relational/Graph-based/Hierarchical/Tree-based)

4. Data model is a notation for describing data or information. The description consists of

Answer: Structure of data/Operations on the data/Constrains on the data

5. When we define an attribute A as UNIQUE KEY of the relation R, then

Answer: The A attribute is considered/Tuple can have null/There are not 2 tuples

6. Two relation R and S are type compatible if

Answer: They have the same number of attributes/The domain of corresponding

7. A two-dimesion table of data is called a

Answer: Relation

8. Which of the following are properties of relations?

Answer: All of the others(Each attribute/There are no mutivalued/No two rows

9. A constraint between two attribute sets in a relation is called

Answer: Functional dependency

10. Given a relation R(A,B,C,D) with functional dependencies A->B, C->D. Find one key of R

Answer: {A,C}

11. Given a relation R(A,B,C,D) with functional dependencies A->C, C->D, AD->B. Which functional dependency violates BCNF condition?

Answer: C->D

12. Given a relation R(A,B,C,D). Which of following is trivial?

Answer: AB -> A/AB-->A

13. Given a relation R(A,B,C,D) with functional dependencies A->B, C->D, D->B. Compute {C}+

Answer: {B,C,D}

14. The number of entity sets that participate in a relationship is called the

Answer: Degree

15. A relationship between the instances of a single entity set is called

Answer: Binary

16. Every department has one special employee as manager, and every employee may or may not be a manger of department on which he is a member. This relationship is

Answer: One to many

Question 1

Marks: 1

Which statement is true?

Choose one answer.

a. XML documents must have a root tag

X b. All of the others

c. XML tags are case sensitive

d. XML elements must be properly nested

Answer: All of the others(XML documents/tags/elements)

Question 2

Marks: 1

In a typical OLAP application, there is a central relation or collection of data, called \_\_\_\_\_\_

Choose one answer.

x a. the fact table

b. All of the others

c. the dimension table

d. the star table

Answer: the fact table

Question 3

Marks: 1

There is a way of describing XML data, how?

Choose one answer.

x a. XML uses a DTD to describe the data

b. All of the others

c. XML uses a description node to describe data

d. XML uses XSL to describe data

Answer: XML uses a DTD to describe the data

Question 4

Marks: 1

Given relation R(A,B) that has 2 tuples (1, 2) and (3, 4); relation S(B, C, D) has 3 tuples (2, 5, 6), (4, 7, 8) and (9, 10, 11). The natural join of R and S has \_\_\_\_\_\_

Choose one answer.

x a. 2 tuples (1, 2, 5, 6) and (3, 4, 7, 8)

b. 1 tuple (1, 2, 10, 11)

c. 2 tuples (1, 2, 2, 5) and (3, 4, 4, 7)

d. 2 tuples (1, 2, 3, 4) and (5, 6, 7, 8)

Answer: 2 tuples (1, 2, 5, 6) and (3, 4, 7, 8)

Question 5

Marks: 1

Suppose a schema of relation SupplierProduct is SupplierProduct(No, SupplierID, ProductType) where No is a identifier, SupplierID is an identifer of each supplier, and ProducType is a type of product which this supplier provides. What will be returned when the following SQL statement is executed?

SELECT SupplierID FROM SupplierProduct

GROUP BY SupplierID HAVING count (\*) IN

(SELECT count (distinct ProductType) FROM SupplierProduct);

Choose one answer.

a. A listing of supplierIDs, which provide all product types

b. A listing of supplierIDs, which provide some product types

x c. A listing of supplierIDs, which provide a specified number of

product types

d. No result, the query is invalid

Answer: A listing of supplierIDs, which provide a specified number of product types

Question 6

Marks: 1

Which SQL statement is used to return only different values?

Choose one answer.

x a. SELECT DISTINCT

b. SELECT DIFFERENT

c. SELECT UNIQUE

d. SELECT DIFFERENT ALL

Answer: SELECT DISTINCT

Question 7

Marks: 1

We can turn the result of a query into a data cube by appending \_\_\_\_\_\_ to a group-by clause

Choose one answer.

a. WITH SUM

x b. WITH CUBE

c. All of the others

d. WITH AGGREGATE

Answer: WITH CUBE

Question 8

Marks: 1

Choose a well-formed XML document

Choose one answer.

a. <?xml version="1.0"?>

<to>Tove</to><from>Jani</from><heading>Reminder</heading><body>Don't

forget me this weekend!</body>

x b. <?xml version="1.0"?>

<envelope><to>Tove</to><from>Jani</from><heading>Reminder</heading><body>Don't

forget me this weekend</body></envelope>

c. <?xml version="1.0"?>

<to>Tove</to><from>Jani</from><heading>Reminder</heading><body>Don't

forget me this weekend!</body></end>

d. None of the others

Answer: <?xml version="1.0"?><envelope><to>Tove</to><from>Jani</from><heading>Reminder</heading><body>Don't forget me this weekend</body></envelope>

Question 9

Marks: 1

The multiplicity of a binary relationship could be \_\_\_\_\_

Choose one answer.

a. many–to-many

b. one-to-many

x c. All of the others

d. one-to-one

Answer: All of the others(many-to-many/one-to-many/one-to-one)

Question 10

Marks: 1

Choose the wrong statement

Choose one answer.

x a. None of the others

b. The database tier executes queries that are requested from the

application tier

c. There can be many processes in the database tier and the processes

can be distributed over many machines or all be together on one

d. Since creating connections to database takes significant time, we

normally keep a large number of connections open and allow application

processes to share the connections

Answer: None of the others(The database/There can be many/Since creating connections)

Question 11--------------------------------------------------------------------------------------------------

Marks: 1

Choose the wrong statement:

Choose one answer.

x a. The subclasses of a class in UML can be disjoint partial

b. The subclasses of a class in UML can be disjoint overlapping

c. The subclasses of a class in UML can be disjoint complete

d. The subclasses of a class in UML can be overlapping partial

Answer: The subclasses of a class in UML can be disjoint partial

Question 12 ---------------------------------

Marks: 1

Select the right statement

Choose one answer.

x a. Referential integrity constraint is also called foreign key constraint

b. A foreign key constraint can be added or deleted using the 'Alter

Table' command

x c. All of the others

d. A foreign key in one table points to a PRIMARY KEY in another table

Answer: All of the others (Referential integrity/A foreign key constraint/A foreign key in one table)

Question 13

Marks: 1

Select the right statement

Choose one answer.

a. Instead-of trigger is used to update the database tables associated

with the view instead of updating the view directly.

b. When a trigger is defined on a view, we can use INSTEAD OF in place

of BEFORE or AFTER.

x c. All of the others

d. When an event awakens the instead-of trigger, the action of the

trigger is done instead of the event itself

Answer: All of the others(Instead-of-trigger/When a trigger is defined/When an event awakens)

Question 14

Marks: 1

The database language that is used to query and modify the database is called \_\_\_\_\_\_\_

Choose one answer.

a. All of the others

b. Data Control Language

c. Data Definition Language

x d. Data Manipulation Language

Answer: Data Manipulation Language

Question 15 ---------

Marks: 1

Select the right statement

Choose one answer.

x a. Assertion is a boolean-valued SQL expression that must be true at

all times

b. Assertion is not part of the database schema

c. Once created, an assertion cannot be dropped unless you delete the

database

d. Assertion condition cannot be involved in many relations.

Answer: Assertion is a boolean-valued SQL expression that must be true at all times

Question 16

Marks: 1

When a CHECK constraint associate to many tuples on one or more relations, we must create

Choose one answer.

a. Attribute-based CHECK constraint

b. Tuple-based CHECK constraint

x c. Assertion

d. All of the others

e. Domain-based CHECK constraint

Answer: Assertion

Question 17

Marks: 1

Choose the wrong statement

Choose one answer.

a. The existence of an index on an attribute may speed up the execution

of certain queries

b. The most useful index on a relation is an index on its key.

c. None of the others

x d. An index makes update operations on a relation faster

Answer: An index makes update operations on a relation faster

Question 18 ------------------------------------------

Marks: 1

Consider the Datalog rule H(x,y) <- S(x, y) AND x >= y AND y < 3. Relation S(x, y) has 3 tuples (2, 3), (5, 3), and (3, 3). What is about H?

Choose one answer.

a. H has 2 tuples (3, 3) and (5, 3)

b. H has a tuple (3, 3)

x c. None of the others

d. H has a tuple (5, 3)

Answer: None of the others

Question 20

Marks: 1

Choose the right statement

Choose one answer.

a. Transaction is a collection of one or more operations on the

database that must be executed atomically. That is, either all

operations are performed or none of them is done.

b. In SQL, each statement is a transaction by itself.

x c. All of the others

d. SQL allows us to group several statements into a single transaction.

Answer: All of the others(Transaction is a collection/In SQL, each statement/SQL allows us to group)

Question 21--------------------------------------------------------------------------------

Marks: 1

Suppose a relation PROJECT(projectID, projectName, location, department, ProjectLo1(projectID, projectName, department) is an updatable view associated to PROJECT where location=1. Evaluate the following statement: INSERT INTO ProjectLo1 (projectID, projectName, department) VALUES (200,'ERP1.0',1);

Choose one answer.

a. The query is executed, there is new tuple (200,'ERP1.0',1) on

ProjectLo1, and new tuple (200,'ERP1.0',1,1) on Project

b. The query is executed, there is no new tuple on ProjectLo1, and new

tuple (200,'ERP1.0',null,1) on Project

c. The query is executed, there is new tuple (200,'ERP1.0',1) on

ProjectLo1, and new tuple (200,'ERP1.0',null,1) on Project

x d. The query is executed but nothing happened on Project neither on

ProjectLo1

Answer: The query is executed but nothing happened on Project neither on ProjectLo1

Question 22

Marks: 1

Suppose the theta join R3 :=R1?R2, where C is a condition that refers to attributes of R1 and R2. Which of the followings is correct?

Choose one answer.

a. Each tuple t1 of R1 connect with one tuple t2 of R2

x b. Each tuple t1 of R1 connect with some those tuple t2 of R2 that

satisfy C

c. Each tuple t1 of R1 connect with all those tuple t2 of R2 that

satifsy C

d. None of the others

Answer: Each tuple t1 of R1 connect with some those tuple t2 of R2 that satisfy C

Question 23

Marks: 1

Which of the following statement is NOT true:

Choose one answer.

a. Problems such as redundancy that occur when we try to cram too much

into a single relation are called anomalies

b. If X is a key, then X is a super key

x c. A relation can have only one key

d. A set of one or more attributes {A1, A2, ..., An} is a key for a

relation R if these attributes functionally determine all other

attributes of the relation R and these attributes must be minimal

Answer: A relation can have only one key

Question 24

Marks: 1

Which of the following is not a valid loop construct in PSM?

Choose one answer.

a. REPEAT UNTIL END REPEAT;

b. LOOP END LOOP;

c. WHILE DO END WHILE;

x d. None of the others

Answer: None of the others(REPEAT UNTIL END REPEAT/LOOP END LOOP/WHILE DO END WHILE)

Question 25

Marks: 1

Select the right statement

Choose one answer.

x a. All of the others

b. A view is a virtual table

c. Not all views are updatable

d. With updatable views, the modification is translated into an

equivalent modification on a base table

Answer: All of the others(A view is a virtual table/Not all views are updatable/With updatable views)

Question 26--------------------------------------------------------------------- tran saction

Marks: 1

Which of the following isolation levels forbids the reading of dirty data?

Choose one answer.

a. SET TRANSACTION ISOLATION LEVEL READ UNCOMMITED;

b. SET TRANSACTION ISOLATION LEVEL SERIALIZABLE;

c. SET TRANSACTION ISOLATION LEVEL READ COMMITTED;

x d. SET TRANSACTION ISOLATION LEVEL REPEATABLE READ;

Answer: SET TRANSACTION ISOLATION LEVEL REPEATABLE READ;

Question 29

Marks: 1

Which of the following is the correct definition of a procedure:

Choose one answer.

a. CREATE PROCEDURE () RETURNS ;

b. All of the others

----c. CREATE PROCEDURE () ;

d. CREATE PROCEDURE () RETURNS RETURN ;

Answer: CREATE PROCEDURE ();

Question 30

Marks: 1

Which statement is true?

Choose one answer.

a. All XML documents must have a DTD

b. All of the others

x c. All XML elements must be properly closed

d. All XML elements must be lower case

Answer: All XML elements must be properly closed

Question 31

Marks: 1

Select the wrong statement

Choose one answer.

a. None of the others

b. An index can be created in a table to find data more quickly and

efficiently

x c. A table can have only one index

d. The key for index can be any attribute or set of attributes, and

need not be the key of the relation

Answer: A table can have only one index

Question 32

Marks: 1

Consider a relation with schema R(A, B, C, D) and the set of FDs: BC -> D, D -> A, A -> B. Compute {AC}+

Choose one answer.

a. {A, C, D}

b. {A, B, C}

c. {A, C}

x d. {A, B, C, D}

Answer: {A, B, C, D}

Question 33

Marks: 1

Consider a relation with schema R(A, B, C) and the set of FDs: A -> B, A -> C, B -> A, B -> C, C -> A, C -> B, AB -> C, BC -> A, AC -> B, A -> BC, B -> AC, C -> AB. Find a minimal basis for relation R.

Choose one answer.

x a. A -> B, B -> C, C -> A

b. All of the others

c. AC -> B, BC -> A

d. AC -> B, BC -> A, A -> BC

Answer: A -> B, B -> C, C -> A

Question 34

Marks: 1

Choose the wrong statement

Choose one answer.

a. A user defined type (UDT) can be the type of a table

b. None of the others

c. A user defined type can be the type of an attribute belonging to

some table

x d. A user defined type (UDT) cannot be the type of a table

Answer: A user defined type (UDT) cannot be the type of a table

Question 35

Marks: 1

A type of an attribute that can be used as pointer to a user-defined type (UDT) is called \_\_\_\_\_\_

Choose one answer.

a. pointer types

b. None of the others

x c. reference types

d. linking types

Answer: reference types

Question 36

Marks: 1

Which of the following is not a valid privilege in SQL?

Choose one answer.

x a. PROCEDURE

b. TRIGGER

c. EXECUTE

d. REFERENCES

Answer: PROCEDURE

Question 37

Marks: 1

In the three-tier architecture, the function of the application tier is to \_\_\_\_\_\_\_

Choose one answer.

x a. Execute the business logic of the organization operating the database

b. All of the others

c. Perform queries and modifications at the request of the application

servers

d. Manage the interactions with the user

Answer: Execute the business logic of the organization operating the database

Question 38

Marks: 1

Select the right statement

Choose one answer.

x a. Updating views are allowed if query involves a single base relation

and contains a candidate key of base relation

b. Updating views are allowed if query involves aggregation or grouping

operations

c. Updating views are allowed if query involves multiple base relations.

d. All of the others

Answer: Updating views are allowed if query involves a single base relation and contains a candidate key of base relation

Question 39

Marks: 1

Given table MovieStar defined as follows: CREATE TABLE MovieStar( name CHAR(30) PRIMARY KEY, address VARCHAR(256), gender CHAR(1) CHECK (gender IN ('M','F')), birthdate DATE NOT NULL )

Which of the following query is not valid?

Choose one answer.

x a. INSERT INTO MovieStar VALUES ('Tom Cruz', '123 Little Rd, LA city',

'M', NULL);

b. INSERT INTO MovieStar(name, gender, birthday) VALUES ('Tom Cruz',

'M', '1973-09-12 00:00:00');

c. INSERT INTO MovieStar VALUES ('Tom Cruz', NULL, 'M', '1973-09-12

00:00:00');

d. INSERT INTO MovieStar(name, address, gender, birthday) VALUES ('Tom

Cruz', NULL, 'M', '1973-09-12 00:00:00');

Answer: INSERT INTO MovieStar VALUES ('Tom Cruz', '123 Little Rd, LA city', 'M', NULL);

Question 40

Marks: 1

Suppose the relation tblEmployee(EmployeeID, EmployeeName, Salary, department). Consider the following code in SQL Server 2005:

DECLARE @EmployeeID INT, @EmployeeName NVARCHAR(50), @SALARY DECIMAL(10,0);

DECLARE myCursor CURSOR FOR Select EmployeeID, EmployeeName, Salary FROM

tblEMPLOYEE WHERE department=1;

OPEN myCursor;

FETCH NEXT FROM myCursor INTO @EmployeeID,@EmployeeName,@Salary;

IF @@FETCH\_STATUS <> 0

PRINT '<<NONE>>';

WHILE @@FETCH\_STATUS = 0

BEGIN

PRINT @EmployeeID+' '+@EmployeeName+' <mailto:'+@EmployeeName+'>

'+@Salary <mailto:'+@Salary>;

FETCH NEXT FROM myCursor INTO @EmployeeID,@EmployeeName,@Salary;

END

CLOSE myCursor;

DEALLOCATE myCursor;

What happens if we execute this code?

Choose one answer.

x a. It's executed successfully, and prints out three values for each

existing employee in tblEmployee table

b. It's executed successfully, but nothing is displayed in output

c. It's executed successfully, and the output is the simple text '<>'

d. It can not be executed successfully.

Answer: It's executed successfully, and prints out three values for each existing employee in tblEmployee table

Question 41 ---------------------------

Marks: 1

Which of the following constructs can be used in PSM?

Choose at least one answer.

x a. LOOP ... END LOOP;

b. WHILE .... DO ...

c. DO ... WHILE ....

d. FOR ... DO ...

Answer: LOOP ... END LOOP;

Question 43

Marks: 1

List all the movies that have length less than 100 and were produced by

a studio name other than ‘Fox’. Select the right answer.

Choose one answer.

a. Selection NOT(length=100) AND NOT(studioName=‘Fox’)(Movies)

x b. None of the others

c. Selection length<100 AND studioName <>‘Fox’(Movies)

d. Selection NOT(length=100 OR studioName=‘Fox’)(Movies)

Answer: None of the others (Section NOT/length/NOT)

Question 44

Marks: 1

Which of the following is considered anomaly?

Choose one answer.

x a. All of the others

b. information may be changed in one tuple, but may not be changed in

other tuple(s)

c. if a set of values becomes empty, we may lose other information as a

side effect

d. information may be repeated unnecessarily in several tuples

Answer: All of the others(information may/if a set of values/information may be repeated)

Question 45

Marks: 1

Suppose the relation Employee(SSN, Fullname, Salary, SupervisorSSN).

Consider the following condition:

NOT EXISTS (SELECT \* FROM EMPLOYEE WHERE SupervisorSSN NOT IN (SELECT

SSN FROM EMPLOYEE)).

Which of the following activities may violate this condition?

Choose one answer.

a. Insert new employee

b. Delete existing emplyee

x c. All of the others

d. Update existing employee

Answer: All of the others(Insert new/Delete existing/Update existing)

Question 47

Marks: 1

Choose the right answer:

Choose one answer.

x a. Duplicate-elimination operator is used to convert a bag to a set

b. Duplicate-elimination operator is used to add duplicate tuple to a

relation

c. None of the others

d. Duplicate-elimination operator is used to convert a set to a bag

Answer: Duplicate-elimination operator is used to convert a bag to a set

Question 48

Marks: 1

Suppose relation R1 has n1 attributes and t1 tuples, relation R2 has n2 attributes and t2 tuples, then the Cartesian Product R3 = R1 x R2 has \_\_\_\_\_\_\_\_

Choose one answer.

a. n1\*n2 attributes, and t1\*t2 tuples

b. n1\*n2 attributes, and t1+t2 tuples

c. n1+n2 attributes, and t1\*t2 tuples

d. n1+n2 attributes, and t1+t2 tuples

Answer: n1+n2 attributes, and t1\*t2 tuples

Question 49

Marks: 1

Suppose relation R(A,B,C,D) with FD's A?B, B?D, CD?A. This relation is decomposed into 3 relations S1={A,D}, S2={A,C}, S3={B,C,D}. Is this decomposition lossless join?

Choose one answer.

a. Yes

x b. No

Answer: No

Question 50

Marks: 1

Which is not a correct name for an XML element?

Choose one answer.

a. &ltNote>

b. &lt1dollar>

c. All of the others

d. &lthav1>

Answer: All of the others(&ItNode>/&It1dollar>/&Ithav1>

Question 53

Marks: 1

The degree of a relationship is \_\_\_\_\_\_

Choose one answer.

a. The number of binary relationships

b. The number of attributes in a relation

c. The number of entities involved with the relationship

d. The number of tuples in a relation

Answer: The number of entities involved with the relationship

Data modeling may be the most important part of the systems development process because:

answer: Data characteristics are important in the design of programs and other systems components

A business rule:

answer: All of the above: Define, Assert, Controls

Business rules should be determined primarily by interviewing executives in the business.

answer: False

The common types of entities are:

answer: All:Strong, Weak, Associative

A property or characteristic of an entity type that is of interest to the organization is called a(n):

answer: attribute

A relationship is an association between attributes.

answer: False

A good data name should be:

answer: readable, unique, and repeatable

A multivalued attribute is an attribute that is common to many entities.

answer: False

A person's name, birthday, and social security number are all examples of:

answer: Attributes

A(n) \_\_\_\_\_ is the relationship between a weak entity type and its owner.

answer: identifying relationship

The \_\_\_\_\_ specifies the number of instances of one entity that can (or must) be associated with each instance of another entity.

answer: cardinality constraint

The degree of a relationship is the number of entity types that participate in a relationship.

answer: True

A ternary relationship is a simultaneous relationship between more than three entity types.

answer: False

Which is NOT a basic construct of an E-R model?

answer: Identifiers

An attribute that can be calculated from related attribute values is called a \_\_\_\_\_attribute

answer: derived

An attribute that uniquely identifies an entity, and consists of a composite attribute is called a(n):

answer: Composite identifier

An entity that associates the instances of one or more entity types and contains attributes specific to the relationships is called a(n):

answer: Associative entity

The number of entity types that participate in a relationship is called the:

answer: Degree

A relationship between the instances of a single entity type is called a \_\_\_\_\_relationship.

answer: Unary

An entity type name should always be a singular noun.

answer: True

A simultaneous relationship among the instances of three entity types is called a \_\_\_\_\_relationship.

answer: ternary

A \_\_\_\_\_ specifies the number of instances of one entity that can be associated with each instance of another entity.

answer: Cardinality constraint

A relationship where the minimum and maximum cardinality are both one is a(n) \_\_\_\_\_ relationship.

answer: Mandatory one

A mutually exclusive relationship is one in which:

answer: An entity instance can participate in only one of several alternative relationships

A student can attend five classes, each with a different professor. Each professor has 30 students. The relationship of students to professors is a \_\_\_\_\_ relationship.

answer: Many-to-many

The total quiz points for a student for an entire semester is a(n) \_\_\_\_\_ attribute.

answer: Derived

A join operation:

answer: causes two disparate tables to be combined...

Data Definition language (DDL) is used to:

answer: declare database schemas

A database is an organized collection of \_\_\_ related data.

answer: logically

The relation data model consists of which component?

answer: All: Data integrity, Data manipulation, Data structure

A rule that CANNOT be violate by database users is called a:

answer: constraint

In the SQL language, the\_\_\_ statement is usedto creat database definitions

answer: create table

Which of the following types of data can be stored in adatabase

answer: All: Voice, letters, numbers

Given a relation R(A,B,C,D) with dependencies A-->C, C->D. Which of the followings doesn't hold in R?

answer: A->C

What is the property that good decomposition must have?

answer: All: Elimination of anomalies, Recoverability of information, Preservation of dependencies

Given a relation R(A,B,C,D) with functional dependencies A->BC, C->D,D->A. Find one key of R

answer: {A}

Functional dependency is a constraint on \_\_\_\_\_\_\_\_\_\_

answer: Two sets of attributes of a relation

One attribute is called prime if \_\_\_\_\_\_\_\_\_\_

answer: It is a member of key

Choose the false statement about the decomposition into BCNF?

answer: The decomposition has the dependency preservation property

Choose a right statement

answer: If X is a key, then X is a super key

The principle strategy to convert subclasses to relations is \_\_\_\_\_\_\_\_\_

answer: all: Follow, Treat, Use

Choose a wrong answer

answer: UML offers multi-way relationships

Choose a right answer

answer: all: the value, Entity set, Relationship

When we say one class has many students, and a student is a member of one class, we mean that the multiplicity of this relationship from class entity set to student entity set is \_\_\_\_\_\_\_\_\_

answer: One - many

An attribute (or attributes) that uniquely identifies each row in a relation is called a/an:

answer: primary key

Choose a wrong statement

answer: E/R model represents both the structure of data and the operations on data

The number of entity types that participate in a relationship is called the :

answer: degree

An attribute of the relation R to which the ? is applied is called

answer: Grouping attribute

To convert a bag to a set, we use \_\_\_\_\_\_\_\_\_ operator

answer: d

Suppose R(A,B,C) is bag, S=sA>B(R). Choose a right answer

answer: S has the same schema as R, and S has less or equal tuples than R has

Suppose a relation R(A,B,C) as a bag, and a relation S=pA,B(d(R)) as a bag, too. R has 4 tuples (1,2,2), (1,3,2), (1,2,2), and (1,2,3). S has\_\_\_\_\_\_\_\_\_\_ tuples

answer: 3

Suppose a relation R(A,B) has 4 tuples (1,2), (2,3), (1,1), (2,4). A result of ?A,SUM(B)?SUM(R) is \_\_\_\_\_\_\_\_\_\_

answer: A relation has 2 tuples (1,3), (2,7)

Suppose a relation R(A,B) and S(B,C) as a bags. R has 2 tuples (1,2),(1,4) and S has 3 tuples (2,3), (4,5) and (4,5). The theta-join R ? \_R.B<S.B S has \_\_\_\_\_\_\_\_\_\_ tuples

answer: 2

Choose one answer.

answer: This operation is valid and the result has three tuples

The result of ((10<NULL) OR TRUE) AND (UNKNOWN OR FALSE) is

answer: UNKNOWN

Which of following is not part of Data Manipulation Language (DML)?

answer: CREATE statement

Suppose a relation R has two attributes A and B. Choose a valid query

answer: SELECT A, B, COUNT(\*) FROM R GROUP BY A, B

Choose the right statement

answer: all: Sub-queries can appear, return a single, return relations

Which of following condition is TRUE

answer: (UNKNOWN OR TRUE) OR (UNKNOWN AND FALSE)

Suppose a relation R has two numeric non-null attributes A, B. Which of the following queries do we use to count the number of tuples in R ?

answer: COUNT(\*) COUNT(A) COUNT(B)

Suppose a relation S has three numeric attributes A, B, and C. Choose a valid query

answer: SELECT A, SUM(\*) FROM S GROUP BY A HAVING COUNT(B)<20

NULL value is \_\_\_\_\_\_\_\_\_\_

answer: all: unknown, inapplicable, withheld

Choose a wrong answer

answer:Every relation has only one index

Choose a right answer

answer: A virtual view is defined by an expression like a query

Given the relation Movies(title, year, length, genre, studioName).Select the right query to create a view with the titles and studio names of all movies that were produced in 1980

answer:CREATE VIEW OldMovies AS SELECT title, studioName FROM Movies where year=1980

When a user makes contact, a \_\_\_\_\_\_\_\_\_\_ response to the request, and the user becomes a client of this \_\_\_\_\_\_\_\_\_\_ process.

answer: webserver, webserver

Function parameters may be of mode \_\_\_\_\_\_\_\_\_\_

answer: IN

Which of the followings is right about well-formed XML documents?

answer: All: involve, have, begin

The DBMS acts as an interface between what two components of an enterprise-class database system?

answer: Database application and the database

Which of the following projects illustrates a database being designed from existing data?

answer: A database using the Production Department's spreadsheets

Which of the following projects illustrates a database being designed as a new systems development project?

answer: A database designed to produce production reports for a new Production Department manufacturing process

Which of the following products was an early implementation of the relational model developed by E.F. Codd of IBM?

answer: DB2

The following are components of a database except \_\_\_\_\_\_\_\_ .

answer: reports

An application where only one user accesses the database at a given time is an example of a(n) \_\_\_\_\_\_\_\_ .

answer: multiuser database application

Which of the following projects illustrates a database being designed as a redesign of an existing database?

answer: A database that will combine two databases currently used by the Production Department

An on-line commercial site such as Amazon.com is an example of a(n) \_\_\_\_\_\_\_\_ .

answer: e-commerce database application

Which of the following products was the first to implement true relational algebra in a PC DBMS?

answer: R:base

SQL stands for \_\_\_\_\_\_\_\_ .

answer: Structured Query Language

Because it contains a description of its own structure, a database is considered to be \_\_\_\_\_\_\_\_ .

answer: self-describing

The following are functions of a DBMS except \_\_\_\_\_\_\_\_ .

answer: creating and processing forms

Helping people keep track of things is the purpose of a(n) \_\_\_\_\_\_\_\_ .

answer: database

Which of the following products implemented the CODASYL DBTG model?

answer: IDMS

An Enterprise Resource Planning application is an example of a(n) \_\_\_\_\_\_\_\_ .

answer: multiuser database application

A DBMS that combines a DBMS and an application generator is \_\_\_\_\_\_\_\_ .

answer: Microsoft's Access

You have run an SQL statement that asked the DBMS to display data in a table named USER\_TABLES. The results include columns of data labeled "TableName," "NumberOfColumns" and "PrimaryKey." You are looking at \_\_\_\_\_\_\_\_ .

answer: metadata

Which of the following is not considered to be a basic element of an enterprise-class database system?

answer: COBOL programs

The DBMS that is most difficult to use is \_\_\_\_\_\_\_\_ .

answer: Oracle Corporation's Oracle

The relational database model was created by E.F. Codd.

answer: True

A database is called "self-describing" because it contains a description of itself

answer: True

In a database, data is stored in spreadsheets which have rows and columns.

answer: False

A database has data and relationships.

answer: True

Databases create information.

answer: True

One of the reasons why OODBMSs have not been widely used for business information systems is that OOP is obsolete.

answer: False

A database administrator designs, constructs, and manages the databases.

answer: True

In an enterprise-class database system, business users interact directly with database applications, which directly access the database data.

answer: False

Applications are programs that interact directly with the database.

answer: False

The purpose of a database is to help people stop using spreadsheets.

answer: False

Microsoft Access is an enterprise-class database product.

answer: False

Structured Query Language (SQL) is an internationally recognized standard language that is understood by all commercial database management system products.

answer: True

The XML family of standards is very important in database processing today.

answer: True

A database has a built-in capability to create, process and administer itself.

answer: False

Enterprise Resource Planning (ERP) is an example of a single user database.

answer: False

Prior to 1970, all data was stored in separate files, which were mostly stored on reels of magnetic tape.

answer: True

A database design may be based on existing data.

answer: True

The DBMS ranked as being the "easiest to use" in the text is Oracle Corporation's Oracle.

answer: False

Database applications are seldom intended for use by a single user.

answer: False

The DBMS ranked as being the "hardest to use" in the text is Microsoft's SQL Server.

answer: False

In an Enterprise-class database system, business users interact directly with database applications that interact with the DBMS, which directly accesses the database data.

answer: True

Suppose R and S are bags, and t is the tuple that appears n-times and m-times in R and S (n=0, m=0).How many time dose t tupe appear in

answer:In {R^S}, t appears (n + m) times, In {R U S}, t appears MIN(n, m) times, In {R \ S}, t appears MAX(0, n - m) times

Arithmetic operators on NULL values will return

answer: a NULL value

Comparisons with NULL values will return

answer: UNKNOWN

Choose the false statement about the decomposition in to BCNF

answer: the relations of the...

\_\_\_is the framework under which data ay exist and SQL operations on data may beexecuted

answer: SQL environment

which of the following is the extended operator of relational algebra?

answer: All: Outerijoins, Grouping, Duplicate

Which statement is true regarding subqueries?

answer: all: The NOT, = ANY, the IN

In ODL, if we have a may- one relationship from class C to class D,then\_\_

answer: Inclass C, the type of the relationship is just D, while the type of the relationship in D is SET

which of the following statement is invalid?

answer:if A->B, B->->C hold in relation R, then A=>Vholds,too

which of the following is applied in PSM

answer:All: Cursors, queries, Subqueries

Which of the followings may be a part of well-formed XML document?

answer: all

sUPPOSE THE REALTION sale(ITEM, CUSTOMER, quantity, price) with more than billion tupeles from the large database. We try to providea rapid random and sequential access to this table by\_\_\_

answer: Creating some indicies

Which of the followings is characteristic of UML?

answer: Classes are sets of objects, with satate and behaviors

Suppose R(A,B) and S(B,C) are bags. R has two tuples (1,2), (2,30. S hasthree tuples (1,3), (3,2), (2,1). Evalue the following relational expression: gA,SUM(C)-> SUMC(R\*S), where \* denotes the natural join

answer: the result relation has two tuples (1,1) and (2,2)

Which of the followings is belong to DML?

answer: GRANT

The responsibility of Database management system is\_\_

answer: All: Allowusers, Support, Give

Which of the following Datalog rules is unsafe?

answer: Q(x,y,z)<- U(x,y) AND T(x,y) AND NOT T(x,z)

Which of the following statement is used to delete all data from table EMPLOYEES except it's schema?

answer: DELETE FROM EMPLOYEES

Which of the followings has the same meaning as attribute-based constraint?

answer: Entity-based constraint

When we define an attribute A as PRIMARY KEY of relation R, then\_\_

answer: All: tuple must be not, there are no two, no more primary key...

An attributesin\_\_\_are only integers and character strings

answer: ODL

how can we convert the subclass structure to relations?

answer: Contruct a single relation for whole hierarchy ofenitity sets

Choose a right answer

answer: A virtual view is defined by an expression like a query

The most useful index on a relation is an index on its key. This is because:

answer: Queries in which a value for the key is ...

Which of the following is not a benefit of using views?

answer: None of the others

Suppose an updatable view FoxMovies is associated with Movies relation. Choose a right answer

answer: All: An update on Movies is translated into FoxMovies va ngc lai,Drop FoxMovies does not affect Movies

A clustering index is \_\_\_\_\_\_

answer:An index that is defined on non-key field(s) and there can be more than one record corresponding to a value of the indexing field

Choose the invalid statement

answer: Views allow each user to have his or her own view of the database, which creates data redundancy

Suppose a relation R(A,B,C) where all attributes are numeric. Choose a valid query to create an updatable view

answer: None of the others

Which of the fllowing statement is true about User Defined Type?

answer: All: An UDT, the 0-0, many relations

Which of the following is true about SQL session?

answer: the sessions lasts as long as the conection that created it

Which of the followings is false about weak entity set?

answer: THe key for a weak

What do we say a bout views?

answer: All: droping : a base table, a view, views dont exist

Which of the followings is right about attributes on XML documents?

answer: DTD is a grammar

Which of the followings evolves to information integration?

answer: None of other

Which of the followings was the first ever used for data model?

answer: File system

An A attribute is called the key of relation R if\_\_\_

answer: All: it functionally, Its closure, there are no

Where cannot we use PSM procedures

answer: None of the others

View is\_\_\_\_

answer: None of the others

\_\_\_manage the interations with the user

answer: the webserver-tier processes

Which of the followings is false about E/R model?

answer: attributes are very simply types...

Which of the following statement is true?

answer: A recursion in Datalog can be expressed in relational algebra

Which of the followings doesn't take the key's condition 'no two tuples aree on all attributes f key'?

answer: Foregn key

Suppose relation R(A,B,C,D), and set of FD's S={A->B, B->D,AD->C}. find one key of R

answer: {A}

Which of the followings is not true about XML documents?

answer: XML data is presented in one or more document

Suppose relation R(A,B,C,D,E) and se of FDs A->D, AD->C, C->BE. Compute {A}+

answer: {A,B,C,D,E}

database users can connect to database management system as

answer: all: Database designer, Database adinistrator, Database end-user

1. The responsibility of Database management system is

Answer: Support the storage/Give users the ability/Allow users to create

2. Choose a incorrect statement

Answer: None of the others(DB is a collection/created/a collection)

3. Which of following is never used as data model?

Answer: None of the others(Relational/Graph-based/Hierarchical/Tree-based)

4. Data model is a notation for describing data or information. The description consists of

Answer: Structure of data/Operations on the data/Constrains on the data

5. When we define an attribute A as UNIQUE KEY of the relation R, then

Answer: The A attribute is considered/Tuple can have null/There are not 2 tuples

6. Two relation R and S are type compatible if

Answer: They have the same number of attributes/The domain of corresponding

7. A two-dimesion table of data is called a

Answer: Relation

8. Which of the following are properties of relations?

Answer: All of the others(Each attribute/There are no mutivalued/No two rows

9. A constraint between two attribute sets in a relation is called

Answer: Functional dependency

10. Given a relation R(A,B,C,D) with functional dependencies A->B, C->D. Find one key of R

Answer: {A,C}

11. Given a relation R(A,B,C,D) with functional dependencies A->C, C->D, AD->B. Which functional dependency violates BCNF condition?

Answer: C->D

12. Given a relation R(A,B,C,D). Which of following is trivial?

Answer: AB -> A/AB-->A

13. Given a relation R(A,B,C,D) with functional dependencies A->B, C->D, D->B. Compute {C}+

Answer: {B,C,D}

14. The number of entity sets that participate in a relationship is called the

Answer: Degree

15. A relationship between the instances of a single entity set is called

Answer: Binary

16. Every department has one special employee as manager, and every employee may or may not be a manger of department on which he is a member. This relationship is

Answer: One to many

Question 1

Marks: 1

Which statement is true?

Choose one answer.

a. XML documents must have a root tag

X b. All of the others

c. XML tags are case sensitive

d. XML elements must be properly nested

Answer: All of the others(XML documents/tags/elements)

Question 2

Marks: 1

In a typical OLAP application, there is a central relation or collection of data, called \_\_\_\_\_\_

Choose one answer.

x a. the fact table

b. All of the others

c. the dimension table

d. the star table

Answer: the fact table

Question 3

Marks: 1

There is a way of describing XML data, how?

Choose one answer.

x a. XML uses a DTD to describe the data

b. All of the others

c. XML uses a description node to describe data

d. XML uses XSL to describe data

Answer: XML uses a DTD to describe the data

Question 4

Marks: 1

Given relation R(A,B) that has 2 tuples (1, 2) and (3, 4); relation S(B, C, D) has 3 tuples (2, 5, 6), (4, 7, 8) and (9, 10, 11). The natural join of R and S has \_\_\_\_\_\_

Choose one answer.

x a. 2 tuples (1, 2, 5, 6) and (3, 4, 7, 8)

b. 1 tuple (1, 2, 10, 11)

c. 2 tuples (1, 2, 2, 5) and (3, 4, 4, 7)

d. 2 tuples (1, 2, 3, 4) and (5, 6, 7, 8)

Answer: 2 tuples (1, 2, 5, 6) and (3, 4, 7, 8)

Question 5

Marks: 1

Suppose a schema of relation SupplierProduct is SupplierProduct(No, SupplierID, ProductType) where No is a identifier, SupplierID is an identifer of each supplier, and ProducType is a type of product which this supplier provides. What will be returned when the following SQL statement is executed?

SELECT SupplierID FROM SupplierProduct

GROUP BY SupplierID HAVING count (\*) IN

(SELECT count (distinct ProductType) FROM SupplierProduct);

Choose one answer.

a. A listing of supplierIDs, which provide all product types

b. A listing of supplierIDs, which provide some product types

x c. A listing of supplierIDs, which provide a specified number of

product types

d. No result, the query is invalid

Answer: A listing of supplierIDs, which provide a specified number of product types

Question 6

Marks: 1

Which SQL statement is used to return only different values?

Choose one answer.

x a. SELECT DISTINCT

b. SELECT DIFFERENT

c. SELECT UNIQUE

d. SELECT DIFFERENT ALL

Answer: SELECT DISTINCT

Question 7

Marks: 1

We can turn the result of a query into a data cube by appending \_\_\_\_\_\_ to a group-by clause

Choose one answer.

a. WITH SUM

x b. WITH CUBE

c. All of the others

d. WITH AGGREGATE

Answer: WITH CUBE

Question 8

Marks: 1

Choose a well-formed XML document

Choose one answer.

a. <?xml version="1.0"?>

<to>Tove</to><from>Jani</from><heading>Reminder</heading><body>Don't

forget me this weekend!</body>

x b. <?xml version="1.0"?>

<envelope><to>Tove</to><from>Jani</from><heading>Reminder</heading><body>Don't

forget me this weekend</body></envelope>

c. <?xml version="1.0"?>

<to>Tove</to><from>Jani</from><heading>Reminder</heading><body>Don't

forget me this weekend!</body></end>

d. None of the others

Answer: <?xml version="1.0"?><envelope><to>Tove</to><from>Jani</from><heading>Reminder</heading><body>Don't forget me this weekend</body></envelope>

Question 9

Marks: 1

The multiplicity of a binary relationship could be \_\_\_\_\_

Choose one answer.

a. many–to-many

b. one-to-many

x c. All of the others

d. one-to-one

Answer: All of the others(many-to-many/one-to-many/one-to-one)

Question 10

Marks: 1

Choose the wrong statement

Choose one answer.

x a. None of the others

b. The database tier executes queries that are requested from the

application tier

c. There can be many processes in the database tier and the processes

can be distributed over many machines or all be together on one

d. Since creating connections to database takes significant time, we

normally keep a large number of connections open and allow application

processes to share the connections

Answer: None of the others(The database/There can be many/Since creating connections)

Question 11--------------------------------------------------------------------------------------------------

Marks: 1

Choose the wrong statement:

Choose one answer.

x a. The subclasses of a class in UML can be disjoint partial

b. The subclasses of a class in UML can be disjoint overlapping

c. The subclasses of a class in UML can be disjoint complete

d. The subclasses of a class in UML can be overlapping partial

Answer: The subclasses of a class in UML can be disjoint partial

Question 12 ---------------------------------

Marks: 1

Select the right statement

Choose one answer.

x a. Referential integrity constraint is also called foreign key constraint

b. A foreign key constraint can be added or deleted using the 'Alter

Table' command

x c. All of the others

d. A foreign key in one table points to a PRIMARY KEY in another table

Answer: All of the others (Referential integrity/A foreign key constraint/A foreign key in one table)

Question 13

Marks: 1

Select the right statement

Choose one answer.

a. Instead-of trigger is used to update the database tables associated

with the view instead of updating the view directly.

b. When a trigger is defined on a view, we can use INSTEAD OF in place

of BEFORE or AFTER.

x c. All of the others

d. When an event awakens the instead-of trigger, the action of the

trigger is done instead of the event itself

Answer: All of the others(Instead-of-trigger/When a trigger is defined/When an event awakens)

Question 14

Marks: 1

The database language that is used to query and modify the database is called \_\_\_\_\_\_\_

Choose one answer.

a. All of the others

b. Data Control Language

c. Data Definition Language

x d. Data Manipulation Language

Answer: Data Manipulation Language

Question 15 ---------

Marks: 1

Select the right statement

Choose one answer.

x a. Assertion is a boolean-valued SQL expression that must be true at

all times

b. Assertion is not part of the database schema

c. Once created, an assertion cannot be dropped unless you delete the

database

d. Assertion condition cannot be involved in many relations.

Answer: Assertion is a boolean-valued SQL expression that must be true at all times

Question 16

Marks: 1

When a CHECK constraint associate to many tuples on one or more relations, we must create

Choose one answer.

a. Attribute-based CHECK constraint

b. Tuple-based CHECK constraint

x c. Assertion

d. All of the others

e. Domain-based CHECK constraint

Answer: Assertion

Question 17

Marks: 1

Choose the wrong statement

Choose one answer.

a. The existence of an index on an attribute may speed up the execution

of certain queries

b. The most useful index on a relation is an index on its key.

c. None of the others

x d. An index makes update operations on a relation faster

Answer: An index makes update operations on a relation faster

Question 18 ------------------------------------------

Marks: 1

Consider the Datalog rule H(x,y) <- S(x, y) AND x >= y AND y < 3. Relation S(x, y) has 3 tuples (2, 3), (5, 3), and (3, 3). What is about H?

Choose one answer.

a. H has 2 tuples (3, 3) and (5, 3)

b. H has a tuple (3, 3)

x c. None of the others

d. H has a tuple (5, 3)

Answer: None of the others

Question 20

Marks: 1

Choose the right statement

Choose one answer.

a. Transaction is a collection of one or more operations on the

database that must be executed atomically. That is, either all

operations are performed or none of them is done.

b. In SQL, each statement is a transaction by itself.

x c. All of the others

d. SQL allows us to group several statements into a single transaction.

Answer: All of the others(Transaction is a collection/In SQL, each statement/SQL allows us to group)

Question 21--------------------------------------------------------------------------------

Marks: 1

Suppose a relation PROJECT(projectID, projectName, location, department, ProjectLo1(projectID, projectName, department) is an updatable view associated to PROJECT where location=1. Evaluate the following statement: INSERT INTO ProjectLo1 (projectID, projectName, department) VALUES (200,'ERP1.0',1);

Choose one answer.

a. The query is executed, there is new tuple (200,'ERP1.0',1) on

ProjectLo1, and new tuple (200,'ERP1.0',1,1) on Project

b. The query is executed, there is no new tuple on ProjectLo1, and new

tuple (200,'ERP1.0',null,1) on Project

c. The query is executed, there is new tuple (200,'ERP1.0',1) on

ProjectLo1, and new tuple (200,'ERP1.0',null,1) on Project

x d. The query is executed but nothing happened on Project neither on

ProjectLo1

Answer: The query is executed but nothing happened on Project neither on ProjectLo1

Question 22

Marks: 1

Suppose the theta join R3 :=R1?R2, where C is a condition that refers to attributes of R1 and R2. Which of the followings is correct?

Choose one answer.

a. Each tuple t1 of R1 connect with one tuple t2 of R2

x b. Each tuple t1 of R1 connect with some those tuple t2 of R2 that

satisfy C

c. Each tuple t1 of R1 connect with all those tuple t2 of R2 that

satifsy C

d. None of the others

Answer: Each tuple t1 of R1 connect with some those tuple t2 of R2 that satisfy C

Question 23

Marks: 1

Which of the following statement is NOT true:

Choose one answer.

a. Problems such as redundancy that occur when we try to cram too much

into a single relation are called anomalies

b. If X is a key, then X is a super key

x c. A relation can have only one key

d. A set of one or more attributes {A1, A2, ..., An} is a key for a

relation R if these attributes functionally determine all other

attributes of the relation R and these attributes must be minimal

Answer: A relation can have only one key

Question 24

Marks: 1

Which of the following is not a valid loop construct in PSM?

Choose one answer.

a. REPEAT UNTIL END REPEAT;

b. LOOP END LOOP;

c. WHILE DO END WHILE;

x d. None of the others

Answer: None of the others(REPEAT UNTIL END REPEAT/LOOP END LOOP/WHILE DO END WHILE)

Question 25

Marks: 1

Select the right statement

Choose one answer.

x a. All of the others

b. A view is a virtual table

c. Not all views are updatable

d. With updatable views, the modification is translated into an

equivalent modification on a base table

Answer: All of the others(A view is a virtual table/Not all views are updatable/With updatable views)

Question 26--------------------------------------------------------------------- tran saction

Marks: 1

Which of the following isolation levels forbids the reading of dirty data?

Choose one answer.

a. SET TRANSACTION ISOLATION LEVEL READ UNCOMMITED;

b. SET TRANSACTION ISOLATION LEVEL SERIALIZABLE;

c. SET TRANSACTION ISOLATION LEVEL READ COMMITTED;

x d. SET TRANSACTION ISOLATION LEVEL REPEATABLE READ;

Answer: SET TRANSACTION ISOLATION LEVEL REPEATABLE READ;

Question 29

Marks: 1

Which of the following is the correct definition of a procedure:

Choose one answer.

a. CREATE PROCEDURE () RETURNS ;

b. All of the others

----c. CREATE PROCEDURE () ;

d. CREATE PROCEDURE () RETURNS RETURN ;

Answer: CREATE PROCEDURE ();

Question 30

Marks: 1

Which statement is true?

Choose one answer.

a. All XML documents must have a DTD

b. All of the others

x c. All XML elements must be properly closed

d. All XML elements must be lower case

Answer: All XML elements must be properly closed

Question 31

Marks: 1

Select the wrong statement

Choose one answer.

a. None of the others

b. An index can be created in a table to find data more quickly and

efficiently

x c. A table can have only one index

d. The key for index can be any attribute or set of attributes, and

need not be the key of the relation

Answer: A table can have only one index

Question 32

Marks: 1

Consider a relation with schema R(A, B, C, D) and the set of FDs: BC -> D, D -> A, A -> B. Compute {AC}+

Choose one answer.

a. {A, C, D}

b. {A, B, C}

c. {A, C}

x d. {A, B, C, D}

Answer: {A, B, C, D}

Question 33

Marks: 1

Consider a relation with schema R(A, B, C) and the set of FDs: A -> B, A -> C, B -> A, B -> C, C -> A, C -> B, AB -> C, BC -> A, AC -> B, A -> BC, B -> AC, C -> AB. Find a minimal basis for relation R.

Choose one answer.

x a. A -> B, B -> C, C -> A

b. All of the others

c. AC -> B, BC -> A

d. AC -> B, BC -> A, A -> BC

Answer: A -> B, B -> C, C -> A

Question 34

Marks: 1

Choose the wrong statement

Choose one answer.

a. A user defined type (UDT) can be the type of a table

b. None of the others

c. A user defined type can be the type of an attribute belonging to

some table

x d. A user defined type (UDT) cannot be the type of a table

Answer: A user defined type (UDT) cannot be the type of a table

Question 35

Marks: 1

A type of an attribute that can be used as pointer to a user-defined type (UDT) is called \_\_\_\_\_\_

Choose one answer.

a. pointer types

b. None of the others

x c. reference types

d. linking types

Answer: reference types

Question 36

Marks: 1

Which of the following is not a valid privilege in SQL?

Choose one answer.

x a. PROCEDURE

b. TRIGGER

c. EXECUTE

d. REFERENCES

Answer: PROCEDURE

Question 37

Marks: 1

In the three-tier architecture, the function of the application tier is to \_\_\_\_\_\_\_

Choose one answer.

x a. Execute the business logic of the organization operating the database

b. All of the others

c. Perform queries and modifications at the request of the application

servers

d. Manage the interactions with the user

Answer: Execute the business logic of the organization operating the database

Question 38

Marks: 1

Select the right statement

Choose one answer.

x a. Updating views are allowed if query involves a single base relation

and contains a candidate key of base relation

b. Updating views are allowed if query involves aggregation or grouping

operations

c. Updating views are allowed if query involves multiple base relations.

d. All of the others

Answer: Updating views are allowed if query involves a single base relation and contains a candidate key of base relation

Question 39

Marks: 1

Given table MovieStar defined as follows: CREATE TABLE MovieStar( name CHAR(30) PRIMARY KEY, address VARCHAR(256), gender CHAR(1) CHECK (gender IN ('M','F')), birthdate DATE NOT NULL )

Which of the following query is not valid?

Choose one answer.

x a. INSERT INTO MovieStar VALUES ('Tom Cruz', '123 Little Rd, LA city',

'M', NULL);

b. INSERT INTO MovieStar(name, gender, birthday) VALUES ('Tom Cruz',

'M', '1973-09-12 00:00:00');

c. INSERT INTO MovieStar VALUES ('Tom Cruz', NULL, 'M', '1973-09-12

00:00:00');

d. INSERT INTO MovieStar(name, address, gender, birthday) VALUES ('Tom

Cruz', NULL, 'M', '1973-09-12 00:00:00');

Answer: INSERT INTO MovieStar VALUES ('Tom Cruz', '123 Little Rd, LA city', 'M', NULL);

Question 40

Marks: 1

Suppose the relation tblEmployee(EmployeeID, EmployeeName, Salary, department). Consider the following code in SQL Server 2005:

DECLARE @EmployeeID INT, @EmployeeName NVARCHAR(50), @SALARY DECIMAL(10,0);

DECLARE myCursor CURSOR FOR Select EmployeeID, EmployeeName, Salary FROM

tblEMPLOYEE WHERE department=1;

OPEN myCursor;

FETCH NEXT FROM myCursor INTO @EmployeeID,@EmployeeName,@Salary;

IF @@FETCH\_STATUS <> 0

PRINT '<<NONE>>';

WHILE @@FETCH\_STATUS = 0

BEGIN

PRINT @EmployeeID+' '+@EmployeeName+' <mailto:'+@EmployeeName+'>

'+@Salary <mailto:'+@Salary>;

FETCH NEXT FROM myCursor INTO @EmployeeID,@EmployeeName,@Salary;

END

CLOSE myCursor;

DEALLOCATE myCursor;

What happens if we execute this code?

Choose one answer.

x a. It's executed successfully, and prints out three values for each

existing employee in tblEmployee table

b. It's executed successfully, but nothing is displayed in output

c. It's executed successfully, and the output is the simple text '<>'

d. It can not be executed successfully.

Answer: It's executed successfully, and prints out three values for each existing employee in tblEmployee table

Question 41 ---------------------------

Marks: 1

Which of the following constructs can be used in PSM?

Choose at least one answer.

x a. LOOP ... END LOOP;

b. WHILE .... DO ...

c. DO ... WHILE ....

d. FOR ... DO ...

Answer: LOOP ... END LOOP;

Question 43

Marks: 1

List all the movies that have length less than 100 and were produced by

a studio name other than ‘Fox’. Select the right answer.

Choose one answer.

a. Selection NOT(length=100) AND NOT(studioName=‘Fox’)(Movies)

x b. None of the others

c. Selection length<100 AND studioName <>‘Fox’(Movies)

d. Selection NOT(length=100 OR studioName=‘Fox’)(Movies)

Answer: None of the others (Section NOT/length/NOT)

Question 44

Marks: 1

Which of the following is considered anomaly?

Choose one answer.

x a. All of the others

b. information may be changed in one tuple, but may not be changed in

other tuple(s)

c. if a set of values becomes empty, we may lose other information as a

side effect

d. information may be repeated unnecessarily in several tuples

Answer: All of the others(information may/if a set of values/information may be repeated)

Question 45

Marks: 1

Suppose the relation Employee(SSN, Fullname, Salary, SupervisorSSN).

Consider the following condition:

NOT EXISTS (SELECT \* FROM EMPLOYEE WHERE SupervisorSSN NOT IN (SELECT

SSN FROM EMPLOYEE)).

Which of the following activities may violate this condition?

Choose one answer.

a. Insert new employee

b. Delete existing emplyee

x c. All of the others

d. Update existing employee

Answer: All of the others(Insert new/Delete existing/Update existing)

Question 47

Marks: 1

Choose the right Answer:

Choose one answer.

x a. Duplicate-elimination operator is used to convert a bag to a set

b. Duplicate-elimination operator is used to add duplicate tuple to a

relation

c. None of the others

d. Duplicate-elimination operator is used to convert a set to a bag

Answer: Duplicate-elimination operator is used to convert a bag to a set

Question 48

Marks: 1

Suppose relation R1 has n1 attributes and t1 tuples, relation R2 has n2 attributes and t2 tuples, then the Cartesian Product R3 = R1 x R2 has \_\_\_\_\_\_\_\_

Choose one answer.

a. n1\*n2 attributes, and t1\*t2 tuples

b. n1\*n2 attributes, and t1+t2 tuples

x c. n1+n2 attributes, and t1\*t2 tuples

d. n1+n2 attributes, and t1+t2 tuples

Answer: n1+n2 attributes, and t1\*t2 tuples

Question 49

Marks: 1

Suppose relation R(A,B,C,D) with FD's A?B, B?D, CD?A. This relation is decomposed into 3 relations S1={A,D}, S2={A,C}, S3={B,C,D}. Is this decomposition lossless join?

Choose one answer.

a. Yes

x b. No

Answer: No

Question 50

Marks: 1

Which is not a correct name for an XML element?

Choose one answer.

a. &ltNote>

b. &lt1dollar>

xc. All of the others

d. &lthav1>

Answer: All of the others(&ItNode>/&It1dollar>/&Ithav1>

Question 53

Marks: 1

The degree of a relationship is \_\_\_\_\_\_

Choose one answer.

a. The number of binary relationships

b. The number of attributes in a relation

-c. The number of entities involved with the relationship

d. The number of tuples in a relation

Answer: The number of entities involved with the relationship

1. Choose the false statement about the decomposition into BCNF?

Answer: The decomposition has the dependency preservation property

2.\_\_ is the framework under which data may exist and SQL operations on data may be executed

Answer: SQL environment

3. Which of the followings is the extended operator of relational algebra?

Answer: All of the others

4. Which statement is true regarding subqueries?

Answer: All of the others

5. In ODL, if we have a many-one relationship from class C to class D, then \_\_

Answer: ... just D,... SET

6. Which of the follwing statements is invalid?

Answer: If A->B, B-->>C,A->C holds, too

7. Which of the following is applied in PSM

Answer: All of the others

8.Which of the followings may be a part of well-formed XML document?

Answer: All of the others

9. Suppose the realtion SALE(item, customer, quantity, price) with more than billion tuples from the large database. We try to provide a rapid random and sequential access to this table by \_\_\_

Answer: Creating some indices

10. Suppose a realtion PROJECT(projectID,projectName,location,department, ProjectLo1(projectID, projectName,department) is an updatable view associated to PROJECT where location=1. Evaluate the following statement: INSERT INTO ProjectLo1(projectID,projectName,department) VALUES(200.'ERP1.0',1);

Answer: ...is no new tuple on ProjectLo1, and newtuple(200.'ERP 1.0',null, 1) on Project

11. Which of the followings is characteristic of UML?

Answer: Classes are sets of objects, with states and behaviors

12. Suppose R(A,B) and S(B,C) are bags. R has two tuples (1,2),(2,3). S has three tuples (1,3),(3,2),(2,1).Evaluate the following realtional expression: gA,SUM(C)->SUMC(R\*S), where \* denotes the natural join.

Answer: two tuple (1,1) and (2,2)

13. Which of the following statement is belong to DML?

Answer: GRANT

14.Suppose the relation Project(number,name,department,location).Evaluate the following statement: SELECT distinct p1.location FROM Project p1, Project p2 WHERE p1.location = p2.location AND p1.number<p2.number

Answer: ..there are more than one projects

15. Suppose a realtion PROJECT(projectID,projectName,location,department, ProjectLo1(projectID, projectName,department) is an updatable view associated to PROJECT where location=1. Evaluate the following statement: DELETE FROM ProjectLo1 WHERE department=1;

Answer: ..whose value on component department is 1, and value on component location is 1,too

16.Suppose the following statement: CREAT TABLE EMPLOYEE( SSN INT PRIMARY KEY, FULLNAME NVARCHAR(100), GENDER CHAR(1) DEFAULT ' UNDEFINED', AGE INT DEFAULT '18', CHECK ((GENDER = 'F' AND AGE<55) OR (GENDER='M' AND AGE <60))); Evaluate this statement in SQLSever 2005

Answer: ..successfully, newtable name as EMPLOYEE is created

17.The responsibility of Database management system is \_\_

Answer: all of the others

18. Which of following statements is allowed in SQLServer 2005

Answer: all of the others

19. which of the followings cannot be used to construct the complex type in XML Schema

Answer: By using tag

20. Suppose the relation tblEmployee(EmployeeID, EmployeeName,Salary,department).Consider the following code in SQL Sever 2005:DECLARE @EmployeeID INT,@EmployeeName NVARCHAR(50),@SALARY DECIMAL(10,0); DECLARE myCursor CURSOR FOR Select EmployeeID, EmployeeName, Salary FROM tblEMPLOYEE WHERE department =1; OPEN myCursor; FETCH NEXT FROM MyCursor INTO @EmployeeID, @EmployeeName, @Salary;IF @@FETCH\_STATUS<>0 PRINT '<<NONE>>'; WHILE @@FETCH\_STATUS=0 BEGIN PRINT @EmployeeID + ''@EmployeeName +' '+@Salary; FETCH NEXT FROM myCursor INTo @EmployeeID,@EmployeeName,@Salary;END CLOSE myCursor; DEALLOCATE myCursor; What happens if we execute this code?

Answer: ..and prints out three values for each existing employee in tblEmployee table

21. Suppose R(A,B) and S(B,C) are bags. R has two tuples (1,1),(1,2).S has three tuples (1,2),(2,1),(2,2). Evaluate the following Datalog rule: H(x) <- R(x,y) AND S(y,z) AND NOT R(x,z)

Answer: relation H has no tuples

22. Suppose the relation WorksOn(project, employee, hoursperweek).Consider the following constraint: Nobody can't work more than 40 hours a week(for all his/her projects).How can we implement this constraint in SQLServer 2005

Answer: ..a trigger to refuse all modifications violating this constraint

23. Which of the following Datalog rules is unsafe

Answer: Q(x,y,z)<-U(x,y) AND T(x,y) AND NOT T(x,z)

24. Suppose two relations Project (number, name, location, department) and Department(number, name).Evaluate the following SQL statement: SELECT D.number, D.name, P.number, P.name FROM Department D LEFT OUTER JOIN Project P ON (D.number = P.department);

Answer: ..department irrecpective of whether they control projects or not

25. Which of the following expression represents the below constraint on relation R(A:int,B:int,C:int): For every tuple in R, the value on A must be greater than the value on B or value on C must be less than the sum of value on A and value on B

Answer: sA->B OR C < A + B( R ) =

26. which of the following statement is used to delete all data from table EMPLOYEES except its schema

Answer: DELETE FROM EMPLOYEES

27. which of the followings has the same meaning as attribute-based constraint?

Ventity-based constraint

28. When we define an attribute A as PRIMARY KEY of relation R, then \_\_\_\_\_\_\_\_\_\_\_\_

Answer: all of the others

29. An attributes in\_\_\_\_\_\_\_\_\_\_\_\_ are only integers and character strings

Answer: ODL

30. How can we convert the subclass structures to relations

Answer: contruct a single relation for whole hierarchy of entity sets

31. Which of the following statements is true about the User Defined Type?

Answer: all of the others

32. Which of the followings is true about SQL session?

Answer: The session lasts as long as the connection that created it

33. Which of the followings is false about weak entity set?

Answer: The key for a weak entity set includes the keys for all supporting entity sets

34. What do we say about views?

Answer: all of the others

35. Given two relation tblEmployee(EmployeeID,EmployeeName,Salary,Department) and tblDepartment(DepartmentID, DepartmentName,Manager,AssignData).Suppose that Scott is granted as followed: GRANT SELECT, UPDATE ON tblEmployee TO Scott; GRANT SELECT(DepartmentID, Manager) ON tblDepartment to Scott;Which of the following statements is available for Scott?

Answer: all of the others

36. Which of the followings is right about attributes on XML documents?

Answer: DTD is a grammar-like set of rules to ensure that a XML document must be well-formed

37. Suppose the relation Employee(SSN, Fullname,Salary, SupervisorSSN).Consider the following condition: NOT EXISTS(SELECT\*FROM EMPLOYEE WHERE SupervisorSSN NOT IN (SELECT SSN FROM EMPLOYEE)).Which of the following activities may violate this condition?

Answer: all of the others

38. Which of the followings evolves to information integration?

Answer: None of the others

39. Which of the followings was the first ever used for data model

Answer: file System

40. Suppose the relation SALE(item, cusomter, quantity, price) with more than billion tuples from the large database. We try to provide a rapid random and sequential access to this table by\_\_\_\_\_\_\_\_\_

Answer: ..make the viewProjectNo1 unusable

41. Suppose the relation WorksOn(project, employee, hoursperweek).Consider the following query:Listing all those projects with at least 10 workers.The condition 'at least 10 worker' must be\_\_\_\_\_\_\_\_

Answer: appeared in HAVING clause as condition con classified groups

42. An A attribute is called the key of relation R if\_\_\_\_\_\_\_\_\_\_\_\_

Answer: all of the others

43. Where cannot we use PSM procedures?

Answer: None of the others

44.View is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Answer: None of the others

45. \_\_\_\_\_\_\_manage the interations with the user

Answer: The webserver-tier processes

46. Suppose the relation R(A,B,C,D) and set of FDs A->B,B->C,C->D. Suppose the projection R1=PA,C,D®

Answer: A->C, A->D

47. Suppose two relations tblEmployee(EmployeeID, EmployeeName, Salary, memberOf(\*tblDepartment)) and tblDepartment(DepartmentID,DepartmentName,managerIs(tblEmployee)).What doeas the meberOf(tblDepartment) mean?

Answer: ..is a single tuple of relation schema named tblDepartment

48. Suppose two predefined types AuthorType and BookType in UDT. We have defined two relations named Authors and Books based on these types.To present the statement 'Which authors have written which books we define the table Writes.Which of the followings is valid definition for Writes table?

Answer: W author REF(Type),book REF(BookType));

49. Which of the followings is false about E/R model?

Answer: .. very simple types, e.g integers or character strings

50. Which of the following statements is true?

Answer: A recursion in Datalog can be expressed in relational algebra

51. Suppose the relation Employee(SSN:char(12),Supervisor:char(12),Num\_Of\_Supervised:int),where Supervisor indicates that who supervises the current employee, and Num\_Of\_Supervised indicates that how many employees are supervised by this employee.Which of the followings is not allowed in SQL Server 2005

Answer: None of the others

52. Suppose the relation Employee(SSN, Fullname,Salary, SupervisorSSN).Consider the following query: SELECT\*FROM Employee WHERE NOT EXISTS(SELECT\*FROM Employee WHERE SSN=SupervisorSSN)

Answer: .. successfully, and return all those employees who don't supervise any other employee

53. Given two relation tblEmployee(EmployeeID,EmployeeName,Salary,Department).Suppose we connected to SQL with Scott authorization ID.Which of privileges must Scott have to execute the following statement: DELETE FROM tblEmployee WHERE EmployeeID IN(SELECT EmployeeID FROM tblEmployee WHERE department IS NULL)

Answer: DELETE on tblEmployee

54. which of the followings doesn't take the key's condition 'no two tuples agree on all attributes of key'?

Answer: foreign key

55. Suppose we have two elements Department and Project. The Department element has a key named depKey on the attribute DepartmentNo. The Project has an attribute named DepartmentNo, and we'd like to define it as foreign key.Which of followings can be use?

Answer: <xs:keyref name="depRef" refers="depKey"><xs:selector:xpath="Project"/><xs:field xpath="DepartmentN 0"/></xs:keyref>

56. suppose relation R(A,B,C,D,E) and set of FD's S={A->B,B->D,AD->C}.Find on the key of R

Answer: {A}

57. Suppose the relation Employee(SSN,Name,Salary,Department).Which of the followings returns all those employees with salary exceeds salary of all employees from department 1

Answer: all of the others

58. Which of the followings is not true about XML documents

Answer: XML data is presented in one or more documents

59. Suppose relation R(A,B,C,D,E) and set of FD's A->D,AD->C,C->BE.Compute {A}+

Answer: {A,D,C,B,E}

60. Database users can connect to database management system as\_\_\_\_\_\_\_\_\_\_\_\_

Answer: all of the others

61. Any Create command maybe reserved by using a \_\_\_ command

Answer: Commit

62. Suppose a relation R(A,B,C) where all attributes are numeric and we'd like to create a modifying view. Which of followings is valid?

Answer: All of the others

63. The keyword WITH CUBE is used in \_\_\_clause

Answer: GROUP BY

Chap2 Marks: 1 \_\_\_\_\_\_\_\_\_\_\_ is a language to access and manipulate data from a database. Even non-programmers can use it to retrieve and update data. Choose one answer. a. PHP b. ODBC c. Structured Query Language d. ASP Answer: Structured Query Language Question 2 Marks: 1 A person’s name, birthday, and social security number are all examples of : Choose one answer. a. entities b. relationships c. descriptors d. attributes Answer: attributes Question 3 Marks: 1 A domain definition consists of the following components EXCEPT: Choose one answer. a. integrity constraints b. size c. data type d. domain name Answer: integrity constraints Question 4

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Marks: 1 Which of the following is software used to create, maintain, and provide controlled access to databases? Choose one answer. a. Attribute b. Network operating system c. User view d. Database management system Answer: Database management system Question 5 Marks: 1 In the SQL language, the \_\_\_\_\_\_\_\_\_\_ statement is used to create table definitions. Choose one answer. a. select b. create session c. create index d. create table Answer: create table Question 6 Marks: 1 A database is an organized collection of \_\_\_\_\_ related data. Choose one answer. a. physically b. loosely c. logically d. badly Answer: physically Question 7 Marks: 1 A join in which the joining condition is defined explicitly is called a ( n ): Choose one answer. a. Cartesian product b. theta join c. natural join d. All of the other choices Answer: theta join Marks: 1 A join operation: a. causes two disparate tables to be combined into a single table b. is used to combine indexing operations c. causes two tables with common attribute(s) to be combined into a single table Answer: causes two tables with common attribute(s) to be combined into a single table

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d. brings together data from two different fields Question 2 Marks: 1 Data Definition language (DDL) is used to: a. query database and modify the database b. connect to database and query database c. declare database schemas d. None of the others. Question 4 Marks: 1 A property or characteristic of an entity type that is of interest to the organization is called a/an: a. relationship b. cross-function c. attribute d. coexisting entity Answer: attributeQuestion 5 Marks: 1 A join between two relations R and S over all common attributes based upon equality and one occurrence of each common attribute is eliminated from the result is called a/an: a. Cartesian product b. Theta join c. Natural join d. None of the others. Question 6 Marks: 1 Customers, cars, and parts are examples of : Choose one answer. a. attributes b. cardinals c. entities

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d. relationships chap 3 Question 1 Given a relation R(A,B,C,D) with dependencies A-->C, C->D. Which of the followings doesn't hold in R? Choose one answer. a. C->->D b. A->->D c. A->D d. A->C Answer: A->C Question 2 What is the property that good decomposition must have? Choose one answer. a. Elimination of anomalies b. Recoverability of information c. Preservation of dependencies d. All of the others Question 3 Given a relation R(A,B,C,D) with functional dependencies A->BC, C->D, D->A. Find one key of R Choose one answer. a. {A,B,C}

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b. {A,B} c. {A} d. {A,B,C,D} Answer: {A} Question 4 Functional dependency is a constraint on \_\_\_\_\_\_\_\_\_\_ Choose one answer. a. Two sets of attributes of a relation b. Two sets of attributes from two different relations c. Two different relations in database d. A set of attributes of a relation Answer: Two sets of attributes of a relation Question 5 One attribute is called prime if \_\_\_\_\_\_\_\_\_\_ Choose one answer. a. It is a member of candidate key b. It is a member of super key c. It is a member of primary key d. It is a member of key Answer: It is a member of key Question 6 Choose the false statement about the decomposition into BCNF? Choose one answer. a. The decomposition eliminates all anomalies

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b. The relations of the decomposition are all in BCNF c. The decomposition has the dependency preservation property d. The decomposition has a lossless join Answer: The decomposition has the dependency preservation property Question 7 Choose a right statement Choose one answer. a. If X is a key, then X is a super key b. A relation has only one key c. If X is a super key, then X is a key d. Primary key is a minimal key Answer: If X is a key, then X is a super key chap 4 Question 1 The principle strategy to convert subclasses to relations is \_\_\_\_\_\_\_\_\_ Choose one answer. a. Follow the E/R viewpoint b. Treat entities as objects belonging to a single class c. Use null values d. All of the others Answer: All of the others(follow the E/R|Treat entities|use null value)Question 2 Choose a wrong answer Choose one answer. a. Binary relationship is called association in UML b. UML class is an entity set in E/R model

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c. One UML class has one key d. UML offers multi-way relationships Answer: UML offers multi-way relationships Question 3 Choose a right answer Choose one answer. a. The value of one or more attributes can uniquely identify an entity b. Entity set have associated attributes c. Relationships can have attributes d. All of the others Answer: All of the others(The value of/entity set/relationshop)Question 4 When we say one class has many students, and a student is a member of one class, we mean that the multiplicity of this relationship from class entity set to student entity set is \_\_\_\_\_\_\_\_\_ Choose one answer. a. One - many b. Many - many c. One - one d. Many - one Answer: One - many Question 5 An attribute (or attributes) that uniquely identifies each row in a relation is called a/an: Choose one answer.

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a. index key b. duplicate key c. primary key d. foreign key Answer: primary key Question 6 Choose a wrong statement Choose one answer. a. E/R model represents the structure of data graphically b. E/R model represents both the structure of data and the operations on data c. E/R model uses three principle element types: entity sets, attributes, and relationships d. None of the others Answer: E/R model represents both the structure of data and the operations Question 7 The number of entity types that participate in a relationship is called the : Choose one answer. a. degree b. number c. counter d. cardinality Answer: degree 1

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Marks: 1 A student can attend five classes, each with a different professor. Each professor has 30 students. The relationship of students to professors is a \_\_\_\_\_\_\_\_\_ relationship. Choose one answer. a. many - to - many b. one - to - many c. many - to - one d. one - to - one Answer: many - to - manyQuestion 3 Marks: 1 An entity type whose existence depends on another entity type is called a/an \_\_\_\_\_\_\_\_\_ entity. Choose one answer. a. strong b. codependent c. weak d. variant Answer: weak Question 4 Marks: 1 A relationship between the instances of a single entity type is called \_\_\_\_\_\_\_\_ relationship. Choose one answer. a. binary b. primary c. ternary d. unary Answer: unary Question 5 Marks: 1 The relation for the weak entity set W must include \_\_\_\_\_\_\_\_\_\_ Choose one answer. a. All attributes of W

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b. Key attributes of the supporting entity sets c. All attributes of supporting relationships for W d. All of the others Question 6 Marks: 1 The principle strategy to convert subclasses to relations is \_\_\_\_\_\_\_\_\_ Choose one answer. a. Follow the E/R viewpoint b. Treat entities as objects belonging to a single class c. Use null values d. All of the others Question 7 Marks: 1 An attribute (or attributes) that uniquely identifies each row in a relation is called a/an: Choose one answer. a. primary key b. foreign key c. duplicate key d. index key Chap 5 Question 1 Marks: 1 An attribute of the relation R to which the ? is applied is called \_\_\_\_\_\_\_\_\_\_ Choose one answer. a. Grouping attribute b. Aggregation attribute

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c. Composite attribute d. None of the others Answer: Grouping attribute Question 2 Marks: 1 To convert a bag to a set, we use \_\_\_\_\_\_\_\_\_ operator Choose one answer. a. p b. ? c. d d. s Answer: d Question 3 Marks: 1 Suppose R(A,B,C) is bag, S=sA>B(R). Choose a right answer Choose one answer. a. S has the same schema as R, and S has less or equal tuples than R has b. A number of tuples in S is always equal to a number of tuples in R c. A schema of S is different from a schema of R d. None of the others Answer: S has the same schema as R, and S has less or equal tuples than R has Question 4 Marks: 1 Suppose a relation R(A,B,C) as a bag, and a relation S=pA,B(d(R)) as a bag, too. R has 4 tuples (1,2,2), (1,3,2), (1,2,2), and (1,2,3). S has

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\_\_\_\_\_\_\_\_\_\_ tuples. Choose one answer. a. 4 b. 2 c. 3 d. 1 Answer: 3 Question 5 Marks: 1 Suppose a relation R(A,B) has 4 tuples (1,2), (2,3), (1,1), (2,4). A result of ?A,SUM(B)?SUM(R) is \_\_\_\_\_\_\_\_\_\_ Choose one answer. a. A relation has 2 tuples (1,3), (2,7) b. A relation has 4 tuples (1,2), (2,3), (1,1), (2,4) c. A relation has 3 tuples (2,3), (4,7) d. None of the others Answer: A relation has 2 tuples (1,3), (2,7) Question 6 Marks: 1 Suppose a relation R(A,B) and S(B,C) as a bags. R has 2 tuples (1,2), (1,4) and S has 3 tuples (2,3), (4,5) and (4,5). The theta-join R ? \_R.B<S.B S has \_\_\_\_\_\_\_\_\_\_ tuples Choose one answer. a. 3 b. 4

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c. 5 d. 2 Answer: 2Question 7 Marks: 1 Choose one answer. a. This operation is valid and the result has one tuple b. This operation is valid and the result has two tuples c. This operation is valid and the result has three tuples d. This operation is invalid because the attribute names of two Answer: This operation is valid and the result has three tuples relations are not the same Question 3 Marks: 1 Function parameters may be of mode \_\_\_\_\_\_\_\_\_\_ Choose one answer. a. INOUT b. All of the others

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c. OUT d. IN Answer: IN

Quiz Chapter 02

Question 1

Marks: 1

Which of the following types of data can be stored in a database?

Choose one answer.

a. Voice

b. Letters

c. Numbers

x d. All of the others

Answer: All(voice/letters/numbers)

Question 2

Marks: 1

A domain definition consists of the following components EXCEPT:

Choose one answer.

a. data type

b. size

c. domain name

x d. integrity constraints

Answer: integrity constraints

Question 3

Marks: 1

A join in which the joining condition is defined explicitly is called a ( n ):

Choose one answer.

a. Cartesian product

x b. theta join

c. natural join

d. All of the other choices

Answer: theta join

Question 4

Marks: 1

A person’s name, birthday, and social security number are all examples of :

Choose one answer.

x a. attributes

b. relationships

c. descriptors

d. entities

Answer: attributes

Question 5

Marks: 1

Customers, cars, and parts are examples of :

Choose one answer.

a. attributes

b. cardinals

x c. entities

d. relationships

Answer: entities

Question 6

Marks: 1

In the SQL language, the \_\_\_\_\_\_\_\_\_\_ statement is used to create table definitions.

Choose one answer.

a. select

b. create session

c. create index

x d. create table

Answer: create table

Question 7

Marks: 1

A join operation:

Choose one answer.

a. causes two disparate tables to be combined into a single table

b. is used to combine indexing operations

c. brings together data from two different fields

x d. causes two tables with common attribute(s) to be combined into a single table

Answer: causes two tables with common attribute(s) to be combined into a single table

Quiz Chapter 03

Question 1

Marks: 1

Which of the followings is not characteristic of the synthesis algorithm for 3NF schemas?

Choose one answer.

a. The relations of the decomposition are all in 3NF

b. The decomposition has a lossless join

c. The decomposition has the dependency preservation property

x d. The decomposition eliminates the anomalies

Answer: The decomposition eliminates the anomalies

Question 2

Marks: 1

Two sets of FD’s S and T are equivalent if \_\_\_\_\_\_\_\_\_\_

Choose one answer.

a. None of the others

b. T follows from S

c. S follows from T

x d. S follows from T and T follows from S

Answer: S follows from T and T follows from S

Question 3

Marks: 1

Which of the following statement is incorrect?

Choose one answer.

a. A relation with only two attributes is in BCNF

b. A relation with only two attributes is in 3NF

c. A relation in the BCNF is in 3NF

x d. None of the others

Answer: None of the others(A relation with/ A relation in)

Question 4

Marks: 1

Given a relation R(A,B,C,D) with functional dependencies A->BC, C->D, D->A. Find one key of R

Choose one answer.

a. {A,B}

b. {A,B,C}

c. {A,B,C,D}

x d. {A}

Answer: {A}

Question 5

Marks: 1

Choose the false statement about the decomposition into BCNF?

Choose one answer.

a. The relations of the decomposition are all in BCNF

b. The decomposition has a lossless join

c. The decomposition eliminates all anomalies

x d. The decomposition has the dependency preservation property

Answer: The decomposition has the dependency preservation property

Question 6

Marks: 1

Given a relation R(A,B,C,D) with dependencies A->B, C->D. Which of the followings holds in R?

Choose one answer.

a. AB->D

b. A->D

c. None of the others

x d. ABC->D

Answer: ABC->D

Question 7

Marks: 1

Suppose relation R(A,B,C,D), and a set of FD’s S={A->B, B->C, C->D}. Which of the followings is the result of R’s decomposition into BCNF?

Choose one answer.

a. {A,B,C}, {C,D}

b. {A,B}, {B,C,D}

c. {A,B}, {B,D}, {D,C}

x d. {A,B}, {B,C}, {C,D}

Answer: {A,B}, {B,C}, {C,D}

Quiz Chapter 04

Question 1

Marks: 1

Choose a wrong answer

Choose one answer.

a. Binary relationship is called association in UML

X b. UML offers multi-way relationships

c. UML class is an entity set in E/R model

d. One UML class has one key

Answer: UML offers multi-way relationships

Question 2

Marks: 1

A student can attend five classes, each with a different professor. Each professor has 30 students. The relationship of students to professors is a \_\_\_\_\_\_\_\_\_ relationship.

Choose one answer.

a. many - to - one

b. one - to - one

X c. many - to - many

d. one - to - many

Answer: many - to - many

Question 3

Marks: 1

A relationship between the instances of a single entity type is called \_\_\_\_\_\_\_\_ relationship.

Choose one answer.

a. primary

b. ternary

c. binary

X d. unary

Answer: unary

Question 4

Marks: 1

An entity type whose existence depends on another entity type is called a/an \_\_\_\_\_\_\_\_\_ entity.

Choose one answer.

a. variant

X b. weak

c. strong

d. codependent

Answer: weak

Question 5

Marks: 1

The number of entity types that participate in a relationship is called the :

Choose one answer.

a. counter

b. number

X c. degree

d. cardinality

Answer: degree

Question 6

Marks: 1

The relation for the weak entity set W must include \_\_\_\_\_\_\_\_\_\_

Choose one answer.

a. All attributes of W

b. Key attributes of the supporting entity sets

c. All attributes of supporting relationships for W

X d. All of the others

Answer: All of the others (All attribute/key attribute)

Question 7

Marks: 1

In E/R model, one entity set can appear \_\_\_\_\_\_\_\_\_ in a relationship

Choose one answer.

a. Three times

X b. Indefinite number of times

c. Two times

d. One time

Answer: Indefinite number of times

Quiz Chapter 05

Question 2

Marks: 1

To convert a bag to a set, we use \_\_\_\_\_\_\_\_\_ operator

Choose one answer.

a. `\gamma`

b. `\pi`

X c. `\delta`

d. `\sigma`

Answer: `\delta`

Question 3

Marks: 1

Suppose a relation R(A,B) and S(B,C) as a bags. R has 2 tuples (1,2), (1,4) and S has 3 tuples (2,3), (4,5) and (4,5). The theta-join R ? R.B<S.B S has \_\_\_\_\_\_\_\_\_\_ tuples

Choose one answer.

X a. 2

b. 4

c. 5

d. 3

Answer: 2

Question 5

Marks: 1

Choose one answer.

a. This operation is valid and the result has one tuple

X b. This operation is valid and the result has three tuples

c. This operation is invalid because the attribute names of two relations are not the same

d. This operation is valid and the result has two tuples

Answer: This operation is valid and the result has three tuples

Question 6

Marks: 1

Suppose R and S are bags, R and S are type compatible, and t is the tuple that appears n times in R, and m times in S (n=0, m=0). How many times doest t tuple appear in R\S ?

Choose one answer.

a. n+m times

b. MIN(n,m)

X c. MAX(0,n-m)

d. None of the others

Answer: MAX(0,n-m)

Question 7

Marks: 1

Suppose R(A,B,C) is bag, S= s(A>B) (R). Choose a right answer

Choose one answer.

X a. S has the same schema as R, and S has less or equal tuples than R has

b. A number of tuples in S is always equal to a number of tuples in R

c. A schema of S is different from a schema of R

d. None of the others

Answer: S has the same schema as R, and S has less or equal tuples than R has

Quiz Chapter 06

Question 1

Marks: 1

Which SQL isolation level does not allow dirty reads, non-repeatable reads, and phantoms ?

Choose one answer.

a. Read Committed

b. Read Uncommitted

c. Repeatable Read

X d. Serializable

Answer: Serializable

Question 2

Marks: 1

With SQL, how do you select all the records from a table named "Employee" where the value of the column "FirstName" starts with an "a"?

Choose one answer.

a. SELECT \* FROM Persons WHERE FirstName='a'

b. SELECT \* FROM Persons WHERE FirstName LIKE '%a'

X c. SELECT \* FROM Employee WHERE FirstName LIKE 'a%'

d. SELECT \* FROM Employee WHERE FirstName='%a%'

Answer: SELECT \* FROM Employee WHERE FirstName LIKE 'a%'

Question 3

Marks: 1

Suppose a relation R has two numeric non-null attributes A, B. Which of the following queries do we use to count the number of tuples in R ?

Choose one answer.

a. SELECT COUNT(\*) FROM R

b. SELECT COUNT(A) FROM R

c. SELECT COUNT(B) FROM R

X d. All of the others

Answer: All of the others(SELECT COUNT(A/B/\*))

Question 4

Marks: 1

Suppose a relation R has two attributes A and B. Choose a valid query

Choose one answer.

a. SELECT A, B, COUNT(\*) FROM R GROUP BY A

X b. SELECT A, B, COUNT(\*) FROM R GROUP BY A, B

c. SELECT A, COUNT(\*) FROM R GROUP BY B

d. All of the others

Answer: SELECT A, B, COUNT(\*) FROM R GROUP BY A, B

Question 5

Marks: 1

With SQL, how do you select all the columns from a table named "EMPLOYEE"?

Choose one answer.

a. SELECT P.\* FROM EMPLOYEE P

X b. All of the others

c. SELECT ALL \* FROM EMPLOYEE

d. SELECT \* FROM EMPLOYEE

Answer: All of the others (SELECT P/ALL/\*)

Question 6

Marks: 1

Sub-queries cannot appear in \_\_\_\_\_\_\_\_\_\_

Choose one answer.

a. WHERE clause

b. HAVING clause

X c. GROUP BY clause

d. FROM clause

Answer: GROUP BY clause

Question 7

Marks: 1

The result of ((10<NULL) OR TRUE) AND (UNKNOWN OR FALSE) is

Choose one answer.

a. TRUE

b. FALSE

X c. UNKNOWN

d. NULL

Answer: UNKNOWN

Quiz Chapter 06

Question 1

Marks: 1

Suppose a relation S has three numeric attributes A, B, and C. Choose a valid query

Choose one answer.

a. SELECT A, SUM(B) FROM S GROUP BY A HAVING B<20

x b. SELECT A, SUM(\*) FROM S GROUP BY A HAVING COUNT(B)<20

c. SELECT A, SUM(C) FROM S GROUP BY A HAVING COUNT(\*) <20

d. None of the others

Answer: SELECT A, SUM(\*) FROM S GROUP BY A HAVING COUNT(B)<20

Question 2

Marks: 1

Suppose a relation R has two numeric non-null attributes A, B. Which of the following queries do we use to count the number of tuples in R ?

Choose one answer.

a. SELECT COUNT(\*) FROM R

b. SELECT COUNT(A) FROM R

c. SELECT COUNT(B) FROM R

x d. All of the others

Answer: All of the others(SELECT COUNT(\*/A/B))

Question 3

Marks: 1

Which SQL keyword is used to sort the result-set?

Choose one answer.

a. SORT

b. SORT BY

c. ORDER

x d. ORDER BY

Answer: ORDER BY

Question 4

Marks: 1

Suppose two relations R(A,B,C) and S(A,B,C) are type compatible, where A, B, C are numeric attributes. Which of the following queries is invalid ?

Choose one answer.

a. INSERT INTO R(A,B,C) VALUES (1,2,3);

b. INSERT INTO R VALUES (1,2,3);

c. INSERT INTO R(A, B, C) SELECT \* FROM S;

x d. None of the others

Answer: None of the others(INSERT INTO R)

Question 5

Marks: 1

With SQL, how do you select all the records from a table named "Employee" where the value of the column "FirstName" starts with an "a"?

Choose one answer.

a. SELECT \* FROM Persons WHERE FirstName LIKE '%a'

x b. SELECT \* FROM Employee WHERE FirstName LIKE 'a%'

c. SELECT \* FROM Employee WHERE FirstName='%a%'

d. SELECT \* FROM Persons WHERE FirstName='a'

Answer: SELECT \* FROM Employee WHERE FirstName LIKE 'a%'

Question 6

Marks: 1

Which of the followings is not part of Data Manipulation Language (DML)?

Choose one answer.

a. SELECT statement

x b. CREATE statement

c. UPDATE statement

d. INSERT statement

Answer: CREATE statement

Question 7

Marks: 1

Suppose a relation R has two attributes A and B. Choose a valid query

Choose one answer.

a. SELECT A, B, COUNT(\*) FROM R GROUP BY A

x b. SELECT A, B, COUNT(\*) FROM R GROUP BY A, B

c. SELECT A, COUNT(\*) FROM R GROUP BY B

d. All of the others

Answer: SELECT A, B, COUNT(\*) FROM R GROUP BY A, B

Quiz Chapter 07

Question 1

Marks: 1

The another name of referential integrity constraint is \_\_\_\_\_\_\_\_\_\_\_

Choose one answer.

a. Not-null constraint

b. Domain-based constraint

X c. Foreign key constraint

d. None of the others

Answer: Foreign key constraint

Question 2

Marks: 1

Choose a right answer

Choose one answer.

a. We cannot give a name for primary key constraint

b. We must delete all constraints of a relation before dropping that relation

X c. On default, any modification violating the referential integrity constraint is rejected

d. All of the others

Answer: On default, any modification violating the referential integrity constraint is rejected

Question 3

Marks: 1

Suppose there are two relations R(A,B,C) and S(D,E,F), and a referential integrity constraint from D of S to A of R, where A is a primary key of R. Which of the followings can violate this constraint ?

Choose one answer.

a. Insert a new tuple to the relation R

x b. Insert a new tuple to the relation S

c. Delete an exist tuple from the relation S

d. All of the others

Answer: Insert a new tuple to the relation S

Question 4

Marks: 1

Choose an invalid query

Choose one answer.

X a. 1

b. 1

c. 1

d. None of the others

Question 5

Marks: 1

When a CHECK constraint associate to many tuples on one or more relations, we must create

Choose one answer.

a. Attribute-based CHECK constraint

b. Domain-based CHECK constraint

c. Tuple-based CHECK constraint

x d. None of the others

Answer: None of the others

Question 7

Marks: 1

When a referential integrity constraint is violated, the designer can use \_\_\_\_\_\_\_\_\_\_

Choose one answer.

a. The Default Policy

b. The Cascade Policy

c. The Set-Null Policy

X d. All of the others

Answer: All of the others(The default/cascade/set-null)

Quiz Chapter 08

Question 1

Marks: 1

Suppose a relation R(A,B,C) with three numeric attributes, RC(A,B) is an updatable view associated to R where C=1. Evaluate the following statement:

DELETE FROM RC(A,B) WHERE A=1

Choose one answer.

a. The query cannot be executed

b. The query is executed but nothing happened on R neither on S

c. The query is executed, it deletes from R all those tuples, which has value 1 on component A

x d. The query is executed, it deletes from R all those tuples, whose value on component A is 1, and value on component C is 1, too

Answer: The query is executed, it deletes from R all those tuples, whose value on component A is 1, and value on component C is 1, too

Question 2

Marks: 1

The most useful index on a relation is an index on its key. This is because:

Choose one answer.

a. The index on non key attribute(s) runs slower

x b. Queries in which a value for the key is specified are common, so an index on the key will get used frequently. In addition, there is at most one tuple with a given key value, the index also returns either nothing or one location for a tuple.

c. The index on non key attribute(s) makes update operations to the relation more complex and time-consuming

d. All of the others

Answer: Queries in which a value for the key is specified are common, so an index on the key will get used frequently. In addition, there is at most one tuple with a given key value, the index also returns either nothing or one location for a tuple.

Question 3

Marks: 1

Choose the right statement

Choose one answer.

x a. All of the others

b. We can create as many indexes as we wish, but we need to analyze the trade-off

c. We can create index on a multiple attributes

d. We can create index on a single attribute

Answer: All of the others(We can create)

Question 4

Marks: 1

Choose the right statement

Choose one answer.

a. A view can be created that uses more than one table or other views with a SELECT clause of any complexity

b. All of the others

c. A view can be created logically from other views

x d. A view can be created logically from other tables

Answer: A view can be created logically from other tables

Question 5

Marks: 1

Suppose a relation R(A,B,C) where all attributes are numeric. Choose a valid query to create an updatable view.

Choose one answer.

a. CREATE VIEW RS SELECT A,B FROM R WHERE C=5;

x b. CREATE VIEW RS AS SELECT A,B FROM R R1, R R2 WHERE R1.C=R2.C AND R1.A<>R2.A;

c. CREATE VIEW RS AS SELECT A,B FROM R R1 WHERE C IN (SELECT R2.C FROM R R2 WHERE R.C=R2.C);

d. None of the others

Answer: CREATE VIEW RS AS SELECT A,B FROM R R1, R R2 WHERE R1.C=R2.C AND R1.A<>R2.A;

Question 6

Marks: 1

Given the relation Movies(title, year, length, genre, studioName). Select the right query to create a view with the titles and studio names of all movies that were produced in 1980

Choose one answer.

x a. CREATE VIEW OldMovies AS SELECT title, studioName FROM Movies where year=1980

b. None of the others

c. CREATE VIEW OldMovies SELECT title, studioName FROM Movies where year=1980

d. CREATE VIEW OldMovies AS SELECT title, year FROM Movies where year=1980

Answer: CREATE VIEW OldMovies AS SELECT title, studioName FROM Movies where year=1980

Question 7

Marks: 1

A clustering index is \_\_\_\_\_\_

Choose one answer.

x a. An index that is defined on non-key field(s) and there can be more than one record corresponding to a value of the indexing field

b. None of the others

c. An index that is built on key field(s)

d. An index that is defined on the ordering key field, which is guaranteed to have a unique value in each record

Answer: An index that is defined on non-key field(s) and there can be more than one record corresponding to a value of the indexing field

Quiz Chapter 09 - Attempt 1

Question 1

Marks: 1

What does the application tier do?

Choose one answer.

a. Managing the interactions with users

b. Executing queries that requested from the higher tier

x c. Turning data from the database into a response to the request that it receives from the webservers

d. None of the others

Answer: Turning data from the database into a response to the request that it receives from the webservers

Question 2

Marks: 1

When a user makes contact, a \_\_\_\_\_\_\_\_\_\_ response to the request, and the user becomes a client of this \_\_\_\_\_\_\_\_\_\_ process.

Choose one answer.

a. application, webserver

x b. webserver, webserver

c. webserver, application

d. application, application

Answer: webserver, webserver

Question 3

Marks: 1

The actions performed by the \_\_\_\_\_\_\_\_\_\_ tier are often referred to as the business logic of the organization operating the database

Choose one answer.

a. None of the others

b. Web-server

x c. Application

d. Database

Answer: Application

Question 4

Marks: 1

After defining a persistent stored modules, we can call it \_\_\_\_\_\_\_\_\_\_

Choose one answer.

a. From a host-language program

x b. All of the others

c. As a statement of another persistent stored modules

d. In generic SQL interface

Answer: All of the others(From a host/As a statement/In generic)

Question 5

Marks: 1

In PSM we can break out of the loop by using \_\_\_\_\_\_\_\_\_\_ statement.

Choose one answer.

x a. LEAVE ;

b. QUIT ;

c. BREAK ;

d. EXIT ;

Answer: LEAVE

Question 6

Marks: 1

1. In PSM we define an exception handler as followed:

DECLARE <where to go next> HANDLER FOR <condition list> <statement>

with <where to go next> clause cannot be \_\_\_\_\_\_\_\_\_\_

Choose one answer.

a. EXIT

x b. GOTO

c. CONTINUE

d. UNDO

Answer: GOTO

Question 7

Marks: 1

In PSM, the difference between a stored procedure and a function is that \_\_\_\_\_\_\_\_\_\_

Choose one answer.

x a. A function has the return statement

b. Loops are not allowed in a function

c. All of the others

d. We can declare local variables in a functions

Answer: A function has the return statement

Quiz Chapter 10

Question 1

Marks: 1

Suppose a user-defined type is declared as follows:

CREATE TYPE AddressType AS (street CHAR(30), city CHAR(30));

Which of the following is a generator method of AddressType ?

Choose one answer.

a. All of the others

b. AddressType(s,c);

c. AddressType(s);

x d. AddressType();

Answer: AddressType();

Question 2

Marks: 1

We can turn the result of a query into a data cube by appending \_\_\_\_\_\_ to a group-by clause

Choose one answer.

a. WITH STAR

b. WITH AGGREGATE

x c. None of the others

d. WITH SUM

Answer: None of the others (WITH STAR/AGGREGATE/SUM)

Question 3

Marks: 1

Which of the following statements is wrong?

Choose one answer.

a. In object-relational model, the type of an attribute also can be a reference to a tuple with a given schema or a set of references to tuples with a given schema

b. In object-relational model, a value of one component of a tuple can not be an entire relation

c. Object-relational model allows a type that is a bag of structs, which is essentially a relation

x d. None of the others (In obj-relational modelx3)

Answer: None of the others

Question 4

Marks: 1

Given two relations Department(ID, Name) and Employee(ID, Fullname, depName).

Suppose we connect to SQL database with "Picard" authorization ID. What privileges must Picard have to execute the following statement:

INSERT INTO Department(name)

SELECT DISTINCT depName

FROM Employee

WHERE depName NOT IN

(SELECT name FROM Department);

Choose one answer.

a. Privileges for INSERT(name) ON Department and SELECT(depName) ON Employee

b. Privileges for INSERT ON Department and SELECT ON Employee

x c. Privileges for INSERT, SELECT ON Department and SELECT ON Employee

d. Privileges for INSERT ON Department and SELECT, INSERT ON Employee

Answer: Privileges for INSERT, SELECT ON Department and SELECT ON Employee

Question 5

Marks: 1

1. Select the right statement to declare MovieStar to be a relation whose tuples are of type StarType. Note: StarType is a user-defined type that has its definition as follows:

CREATE TYPE StarType AS (

name CHAR(30),

address CHAR(100) );

Choose one answer.

a. CREATE TABLE MovieStar (name StarType PRIMARY KEY );

b. CREATE TABLE MovieStar (name StarType );

c. None of the others

x d. CREATE TABLE MovieStar OF StarType ();

Answer: CREATE TABLE MovieStar OF StarType ();

Question 6

Marks: 1

Choose the right statement

Choose one answer.

a. A UDT can be the type of an attribute belonging to some table

b. A User-Defined Type (UDT) in SQL can be the type of a table

x c. All of the others

d. The form of UDT definition is: CREATE TYPE T AS ();

Answer: All of the others (A UDT/User-defined type/form of UDT)

Question 7

Marks: 1

Choose a right statement

Choose one answer.

a. Every user must have an authorization ID if he/she wants to connect to database

b. SQL has a special authorization ID called PUBLIC, which includes any user

c. Authorization ID may be granted privileges from others or may give its privileges to others

x d. All of the others (Every user/SQL has a/Authorization)

Answer: All of the others

Quiz Chapter 11

Question 1

Marks: 1

Which of following definition is wrong (that is this XML document is not well-formed) ?

Choose one answer.

a. 1

x b. 1

c. 1

d. None of the others

Answer:

Question 2

Marks: 1

Which of the followings is not true about XML documents?

Choose one answer.

a. Well-formed XML document has a root element that is the entire body of the text

b. XML is a tag-based notation designed originally for marking documents, much like the familiar HTML

c. XML can have attributes within its open tag

x d. Conversion from XML documents to relational database is straightforward

Answer: Conversion from XML documents to relational database is straightforward

Question 3

Marks: 1

Which of the followings is right about semistructured data representation?

Choose one answer.

a. There are some root nodes, they don't have arc in, and every other nodes may be reachable from one of them

b. There are many interior nodes, each of them has only one arc out

x c. There is only one root, it has no arc in, and every other nodes must be reachable from this node

d. All of the others

Answer: There is only one root, it has no arc in, and every other nodes must be reachable from this node

Question 4

Marks: 1

Some things to consider when creating valid XML documents are \_\_\_\_\_\_\_\_\_\_

Choose one answer.

a. We use whatever tags that we wishes

b. We must begin with a declaration that it is XML

x c. All of the others

d. We must have a root element that is the entire body of the text

Answer: All of the others (We use whatever/must begin/must have)

Question 5

Marks: 1

An attribute presents as \_\_\_\_\_\_\_\_\_\_ of semi structured database

Choose one answer.

a. Arc

b. Interior node

c. Role

x d. Leaf node

Answer: Leaf node

Question 6

Marks: 1

Which of the followings is right about well-formed XML documents?

Choose one answer.

a. Must have a root element that is the entire body of the text

b. Must involve document type definition

x c. All of the others

d. Must begin with a declaration that it is XML

Answer: All of the others (Must have/involve/begin)

Question 7

Marks: 1

Which of followings is part of semistructured data’s representation

Choose one answer.

a. Root node

b. Leaf nodes

c. Interior nodes

x d. All of the others

Answer: All of the others(Root node/leaf node/ interior node)

1. Suppose two relations R1(A,B), R2(C,D) and the theta join R3 := R1 ... R2.

Which of the followings is correct?

Answer: Each tuple t1 of R1 connect with all those tuple t2 of R2 if t1.B < t2.C

2. In referential integrity constraint, the referenced attribute(s) must be

Answer: Primary key, Unique key

3. \_\_\_ connect web-clients to the database system, usually over the Internet or possibly a local connection.

Answer: Web server processes

4. Suppose a relatation SALE(item, customer, quantity, price) with more than billion tuples from the large database. We must \_\_\_\_ to speed up the execution of certain queries.

Answer: create some indexes

5. Which of the following is TRUE about semi-structured data?

Answer: It is self\_describing

6. Which of the followings is characteristic of object relational data model?

Answer: All (Iden+Struc+Method)

7. Suppose R(A,B) and S(B,C) are bags. R has four tuples (1,1), (1,1), (1,2) and (1,2). S has three tuples (1,2), (2,1), (2,2). Evaluate the (R)\S operation.

Answer: This operation is valid and the result has one tuples

8. Which of following keywords can be used in well-formed XML document?

Answer: All(PCData,IMPLIED,REQUIRED)

9. Which of the following is the responsibility of DTD?

Answer: All(3 defines-contraint/element/operation)

10. In PSM we can break out of the loop by using \_\_\_ statement.

Answer: LEAVE

11. The ER Diagram uses three principle element types:

Answer: Entity sets/Attribute/Relation

12. Suppose R(A,B) and S(B,C) are bags. R has four tuples (1,1), (1,1), (1,2) and (1,2). S has three tuples (2,1), (2,2). Evaluate the R\*S operation, where \* denotes the left outer join.

Answer: This operation is valid and the result has six tuples.

13. Suppose a relation Employee(SSN, Name, Supervisor). The view Supervisor is defined as followed:

CREATE VIEW Supervisor AS SELECT SSN, Name FROM Employee WHERE SSN NOT IN(SELECT Supervisor FROM Employee).

Which of the following is executable in Supervisor?

Answer: None (Insert-Delete-Update)

14. The result of (UNKNOWN OR TRUE) is

Answer: TRUE

15. Suppose the following statement:

CREATE TABLE STUDENT (SSN INT PRIMARY KEY, FULLNAME NVARCHAR(100), GENDER CHAR(1) DEFAULT 'F', AGE INT DEFAULT '18', CHECK GENDER IN ('F','M'));

Answer: This statement has error in GENDER declaration, no newtable is created.

16. In SQL language, the command/statement that let you change the schema of a relation is:

Answer: Alter

17. Consider a relation with schema R(A, B, C, D) and FD's BC->D, D->A, A->B. Which of the following is the key of R?

Answer: BC

18. Given two relations Department(ID, Name) and Employee(ID, Fullname, depID).

Suppose we connected to SQL with Picard authorization id. Which of privileges must Picard have to execute the following statement:

DELETE FROM Department

WHERE ID NOT IN (SELECT depID FROM Employee)

Answer: Privilege for delete on Department and select on Employee

19. Data Definition language (DDL) is used to...

Answer: declare database schemas

20. Suppose a relation R has two not null numeric attributes A,B. Which of the following queries do we use to count the number of tuples in R?

Answer: All(3 Select Count A/Count B/Count\*)

21. Which of the following statements is TRUE? Key is the superkey. Superkey is the minimal key of relation. A relation can have only one key.

Answer: Key is the superkey.

22. Which of the following is the principle element type of ER diagram?

Answer: All ( Attri/Entity/Relation)

23. When we define an attribute A as PRIMARY KEY of relation R, then

Answer: There are no two tuples that have the same values on the A component.

24. Which of the followings statements is valid? If A->b, b->->C hold in relation R, then A->->C holds, too.

Answer: If A->b, b->->C hold in relation R, then A->->C holds, too.

25. The keyword WITH ROLLUP is used in \_\_\_ clause

Answer: GROUP BY

26. Suppose a relation Employee(SSN, Name, Birthdate), and a constraint based on Birthdate. Which of the following action doesn't violate this constraint?

Answer: Delete an exist employee

27. Suppose relation R(A,B,C,D,E), and set of FD's S={ a->D, BD->E}. Which of the followings is a key of R?

Answer: {A,B,C}

28. Which of the followings is TRUE about weak entity set?

Answer: All(Do not construct/Key for a weak/Weak entity set has one..)

29. Suppose the relation Employee(SSN,Fullname,SupervisorSSN). Evaluate the following query:

SELECT \* FROM Employee

WHERE SSN IN (SELECT SupervisorSSN FROM Employee)

Answer: This query executes successfully, and return all those employees who supervisw some other employees.

30. Which of the followings can appear in PSM procedure definition?

Answer: All(Statement/Parameter/Variables)

31. Choose the incorrect statement. UML supports the multi-way relationships. UML differentiates aggregations and compositions. Classes are set of objects, with states and behaviors.

Answer: UML supports the multi-way relationships

32. What will be returned when the following SQL statement is executed?

Select sale\_no, count(\*) as num\_orders

From Orders

Group By sale\_no;

Answer: A listing of each sale as well as a number of orders that he or she has made

33. Select the well-formed XML. Choose one.

Answer: <MovieData><Movie title><Year></Year></Movie></MovieData>

34. In a tree structure, a/an \_\_\_ has no arc out.

Answer: leaf node.

35. Suppose an updatable view DepartmentOnHCMC is associated to Department relation. Which of the followings is TRUE?

Answer: All(2 Update / Dropping)

36. Which of the followings is not applied while converting subclass structures to relations using E/R style conversion?

Answer: None (Construct relation for entity/for each sub/Do no construct for ISA)

37. Which of the followings has the same meaning as domain-based constraint?

Answer: Attribute-base constraint

38. Which of following statements can be used in PSM procedure definition?

Answer: All(Loop/Assign/Branching)

39. Suppose two relations R(A:string, B:int) and S(C:int, D:int). Which of the following is valid?

Answer: ALTER TABLE R ADD CONSTRAINT RCHK CHECK(A IN ('Yes','No'));

40. Which of the following is NOT a standard aggregation operator?

Answer: GROUP

41. Which of the following relational operations are considerably more effecient if we use the bag model?

Answer: Union

42. Which of the following statements is TRUE? A relation cannot be defined in terms of a negation or aggregation of itself. In SQL, a relation can be defined recursively in term of itself.

Answer: A relation cannot be defined in terms of a negation or aggregation of itself.

43. Suppose the relation WorkOn(project, employee, hoursperweek). Consider the following constraint:

Nobody can work more than 3 project at once.

How can we implement this constraint in SQLServer 2005?

Answer: We create a trigger to refuse all modification violating this constraint.

44. Choose the false statement about the decomposition into 3NF?

Answer: The decomposition has the dependency presevation property.

45. Suppose two relations tblEmployee(EmployeeID, EmployeeName, Salary, memberOf(\*tblDepartment)) and tblDepartment(DepartmentID, DepartmentName, managerIs(\*tblEmployee)).

What does the managerIs(\*tblEmployee) mean?

Answer: A managerIS is... type is a reference to a single tuple...

46. Which of the following is a disadvantage of using index?

Answer: An index make update operations become more complex

47. An attribute A is called the key of relation R if \_\_\_\_

Answer: All(It function/its closure/there are no two..)

48. Suppose an updatable view ParamountMovies is associated with Movies relation. Choose a right answer

Answer: an update on ParamountMovies is translated into Movies

49. Choose a right answer. Privileges cannot be granted on a view. When a privilege is granted, it cannot be revoked. An authorization ID may

Answer: An authorization ID maybe granted privileges from others or may give its privileges to others.

50. Which of the followings is not applied for the union of two relations which are bags?

Answer: We eleminate duplicated tuples.

51. Select the right statement. We can create constraint on a tuple as a whole. We can create constraint on a singel attribute. Every constraint has a name. If we don't define constraint.

Answer: All (2 We can create constraint / Every constraint )

52. Which of the followings is TRUE about E/R model?

Answer: All(3 Attribute associated/very simple type/cannot have the same)

53. Which of the following logical expressions is FALSE?

Answer: None (2 UNKNOWN OR TRUE / UNKNOWN AND TRUE)

54. Which of the followings is definition of tables in SQL?

Answer: Tables are the kind of relation that exist in the database....

55. Choose a right answer. A SQL environment is a DBMS running at some installation. Within a SQL environment are two special kind of processes: SQL clients and SQL servers.

Answer: All(2 SQL environment/ Within a SQL environment)

56. Each web server process can invoke one or more \_\_\_ to handle the request

Answer: Application server processes.

57. Which of the following statement is not DML?

Answer: CREATE

58. Which of the followings is not the extended operator of relational algebra?

Answer: Duplicate-elimination operator

59. Suppose two relation R(A,B) and S(C,D,E), where A, B, C, D, E are integer attributes.

Which of the following queries is invalid?

Answer: INSERT INTO R(A,B) SELECT \* FROM S;

60. WHich of the following is TRUE? Well-formed XML document must begin with a declaration that it is XML. Whatever tags can be used in XML document.

Answer: All(2 Well-formed XML/Whatever tags)

1. Choose the fAlse stAtement About the decomposition into BCNF?

Answer: The relAtions of the decomposition Are All in BCNF

2.\_\_ is the frAmework under which dAtA mAy exist And SQL operAtions on dAtA mAy be executed

Answer: SQL environment

3. Which of the followings is the extended operAtor of relAtionAl AlgebrA?

Answer: All of the others

4. Which stAtement is true regArding subqueries?

Answer: All of the others

5. In ODL, if we hAve A mAny-one relAtionship from clAss C to clAss D, then \_\_

Answer: ... just D,... SET

6. Which of the follwing stAtements is invAlid?

Answer: If A->B, B-->>C,A->C holds, too

7. Which of the following is Applied in PSM

Answer: All of the others

8.Which of the followings mAy be A pArt of well-formed XML document?

Answer: All of the others

9. Suppose the reAltion SALE(item, customer, quAntity, price) with more thAn billion tuples from the lArge dAtAbAse. We try to provide A rApid rAndom And sequentiAl Access to this tAble by \_\_\_

Answer: CreAting some indices

10. Suppose A reAltion PROJECT(projectID,projectNAme,locAtion,depArtment, ProjectLo1(projectID, projectNAme,depArtment) is An updAtAble view AssociAted to PROJECT where locAtion=1. EvAluAte the following stAtement: INSERT INTO ProjectLo1(projectID,projectNAme,depArtment) VALUES(200.'ERP1.0',1);

Answer: ...is no new tuple on ProjectLo1, And newtuple(200.'ERP 1.0',null, 1) on Project

11. Which of the followings is chArActeristic of UML?

Answer: ClAsses Are sets of objects, with stAtes And behAviors

12. SUppose R(A,B) And S(B,C) Are bAgs. R hAs two tuples (1,2),(2,3). S hAs three tuples (1,3),(3,2),(2,1).EvAluAte the following reAltionAl expression: gA,SUM(C)->SUMC(R\*S), where \* denotes the nAturAl join.

Answer: two tuple (1,1) And (2,2)

13. Which of the following stAtement is belong to DML?

Answer: GRANT

14.Suppose the relAtion Project(number,nAme,depArtment,locAtion).EvAluAte the following stAtement: SELECT distinct p1.locAtion FROM Project p1, Project p2 WHERE p1.locAtion = p2.locAtion AND p1.number<p2.number

Answer: ..there Are more thAn one projects

15. Suppose A reAltion PROJECT(projectID,projectNAme,locAtion,depArtment, ProjectLo1(projectID, projectNAme,depArtment) is An updAtAble view AssociAted to PROJECT where locAtion=1. EvAluAte the following stAtement: DELETE FROM ProjectLo1 WHERE depArtment=1;

Answer: ..whose vAlue on component depArtment is 1, And vAlue on component locAtion is 1,too

16.Suppose the following stAtement: CREAT TABLE EMPLOYEE( SSN INT PRIMARY KEY, FULLNAME NVARCHAR(100), GENDER CHAR(1) DEFAULT ' UNDEFINED', AGE INT DEFAULT '18', CHECK ((GENDER = 'F' AND AGE<55) OR (GENDER='M' AND AGE <60))); EvAluAte this stAtement in SQLSever 2005

Answer: ..successfully, newtAble nAme As EMPLOYEE is creAted

17.The responsibility of DAtAbAse mAnAgement system is \_\_

Answer: All of the others

18. Which of following stAtements is Allowed in SQLServer 2005

Answer: All of the others

19. which of the followings cAnnot be used to construct the complex type in XML SchemA

Answer: By using tAg

20. Suppose the relAtion tblEmployee(EmployeeID, EmployeeNAme,SAlAry,depArtment).Consider the following code in SQL Sever 2005: DECLARE @EmployeeID INT,@EmployeeNAme NVARCHAR(50),@SALARY DECIMAL(10,0); DECLARE myCursor CURSOR FOR Select EmployeeID, EmployeeNAme, SAlAry FROM tblEMPLOYEE WHERE depArtment =1; OPEN myCursor; FETCH NEXT FROM MyCursor INTO @EmployeeID, @EmployeeNAme, @SAlAry;IF @@FETCH\_STATUS<>0 PRINT '<<NONE>>'; WHILE @@FETCH\_STATUS=0 BEGIN PRINT @EmployeeID + ''@EmployeeNAme +' '+@SAlAry; FETCH NEXT FROM myCursor INTo @EmployeeID,@EmployeeNAme,@SAlAry;END CLOSE myCursor; DEALLOCATE myCursor; WhAt hAppens if we execute this code?

Answer: ..And prints out three vAlues for eAch existing employee in tblEmployee tAble

21. Suppose R(A,B) And S(B,C) Are bAgs. R hAs two tuples (1,1),(1,2).S hAs three tuples (1,2),(2,1),(2,2). EvAluAte the following DAtAlog rule: H(x) <- R(x,y) AND S(y,z) AND NOT R(x,z)

Answer: relAtion H hAs no tuples

22. Suppose the relAtion WorksOn(project, employee, hoursperweek).Consider the following constrAint: Nobody cAn't work more thAn 40 hours A week(for All his/her projects).How cAn we implement this constrAint in SQLServer 2005

Answer: ..A trigger to refuse All modificAtions violAting this constrAint

23. Which of the following DAtAlog rules is unsAfe

Answer: Q(x,y,z)<-U(x,y) AND T(x,y) AND NOT T(x,z)

24. Suppose two relAtions Project (number, nAme, locAtion, depArtment) And DepArtment(number, nAme).EvAluAte the following SQL stAtement: SELECT D.number, D.nAme, P.number, P.nAme FROM DepArtment D LEFT OUTER JOIN Project P ON (D.number = P.depArtment);

Answer: ..depArtment irrecpective of whether they control projects or not

25. Which of the following expression represents the below constrAint on relAtion R(A: int,B: int,C: int): For every tuple in R, the vAlue on A must be greAter thAn the vAlue on B or vAlue on C must be less thAn the sum of vAlue on A And vAlue on B

Answer: sA->B OR C < A + B( R ) =

26. which of the following stAtement is used to delete All dAtA from tAble EMPLOYEES except its schemA

Answer: DELETE FROM EMPLOYEES

27. which of the followings hAs the sAme meAning As Attribute-bAsed constrAint?

Ventity-bAsed constrAint

28. When we define An Attribute A As PRIMARY KEY of relAtion R, then \_\_\_\_\_\_\_\_\_\_\_\_

Answer: All of the others

29. An Attributes in\_\_\_\_\_\_\_\_\_\_\_\_ Are only integers And chArActer strings

Answer: ODL

30. How cAn we convert the subclAss structures to relAtions

Answer: contruct A single relAtion for whole hierArchy of entity sets

31. Which of the following stAtements is true About the User Defined Type?

Answer: All of the others

32. Which of the followings is true About SQL session?

Answer: The session lAsts As long As the connection thAt creAted it

33. Which of the followings is fAlse About weAk entity set?

Answer: The key for A weAk entity set includes the keys for All supporting entity sets

34. WhAt do we sAy About views?

Answer: All of the others

35. Given two relAtion tblEmployee(EmployeeID,EmployeeNAme,SAlAry,DepArtment) And tblDepArtment(DepArtmentID, DepArtmentNAme,MAnAger,AssignDAtA).Suppose thAt Scott is grAnted As followed: GRANT SELECT, UPDATE ON tblEmployee TO Scott; GRANT SELECT(DepArtmentID, MAnAger) ON tblDepArtment to Scott;Which of the following stAtements is AvAilAble for Scott?

Answer: All of the others

36. Which of the followings is right About Attributes on XML documents?

Answer: DTD is A grAmmAr-like set of rules to ensure thAt A XML document must be well-formed

37. Suppose the relAtion Employee(SSN, FullnAme,SAlAry, SupervisorSSN).Consider the following condition: NOT EXISTS(SELECT\*FROM EMPLOYEE WHERE SupervisorSSN NOT IN (SELECT SSN FROM EMPLOYEE)).Which of the following Activities mAy violAte this condition?

Answer: All of the others

38. Which of the followings evolves to informAtion integrAtion?

Answer: None of the others

39. Which of the followings wAs the first ever used for dAtA model

Answer: file System

40. Suppose the relAtion SALE(item, cusomter, quAntity, price) with more thAn billion tuples from the lArge dAtAbAse. We try to provide A rApid rAndom And sequentiAl Access to this tAble by\_\_\_\_\_\_\_\_\_

Answer: ..mAke the viewProjectNo1 unusAble

41. Suppose the relAtion WorksOn(project, employee, hoursperweek).Consider the following query: Listing All those projects with At leAst 10 workers.The condition 'At leAst 10 worker' must be\_\_\_\_\_\_\_\_

Answer: AppeAred in HAVING clAuse As condition con clAssified groups

42. An A Attribute is cAlled the key of relAtion R if\_\_\_\_\_\_\_\_\_\_\_\_

Answer: All of the others

43. Where cAnnot we use PSM procedures?

Answer: None of the others

44.View is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Answer: None of the others

45. \_\_\_\_\_\_\_mAnAge the interAtions with the user

Answer: The webserver-tier processes

46. Suppose the relAtion R(A,B,C,D) And set of FDs A->B,B->C,C->D. Suppose the projection R1=PA,C,D®

Answer: A->C, A->D

47. Suppose two relAtions tblEmployee(EmployeeID, EmployeeNAme, SAlAry, memberOf(\*tblDepArtment)) And tblDepArtment(DepArtmentID,DepArtmentNAme,mAnAgerIs(tblEmployee)).WhAt doeAs the meberOf(tblDepArtment) meAn?

Answer: ..is A single tuple of relAtion schemA nAmed tblDepArtment

48. Suppose two predefined types AuthorType And BookType in UDT. We hAve defined two relAtions nAmed Authors And Books bAsed on these types.To present the stAtement 'Which Authors hAve written which books we define the tAble Writes.Which of the followings is vAlid definition for Writes tAble?

Answer: W Author REF(Type),book REF(BookType));

49. Which of the followings is fAlse About E/R model?

Answer: .. very simple types, e.g integers or chArActer strings

50. Which of the following stAtements is true?

Answer: A recursion in DAtAlog cAn be expressed in relAtionAl AlgebrA

51. Suppose the relAtion Employee(SSN: chAr(12),Supervisor: chAr(12),Num\_Of\_Supervised: int),where Supervisor indicAtes thAt who supervises the current employee, And Num\_Of\_Supervised indicAtes thAt how mAny employees Are supervised by this employee.Which of the followings is not Allowed in SQL Server 2005

Answer: None of the others

52. Suppose the relAtion Employee(SSN, FullnAme,SAlAry, SupervisorSSN).Consider the following query: SELECT\*FROM Employee WHERE NOT EXISTS(SELECT\*FROM Employee WHERE SSN=SupervisorSSN)

Answer: .. successfully, And return All those employees who don't supervise Any other employee

53. Given two relAtion tblEmployee(EmployeeID,EmployeeNAme,SAlAry,DepArtment).Suppose we connected to SQL with Scott AuthorizAtion ID.Which of privileges must Scott hAve to execute the following stAtement: DELETE FROM tblEmployee WHERE EmployeeID IN(SELECT EmployeeID FROM tblEmployee WHERE depArtment IS NULL)

Answer: DELETE on tblEmployee

54. which of the followings doesn't tAke the key's condition 'no two tuples Agree on All Attributes of key'?

Answer: foreign key

55. Suppose we hAve two elements DepArtment And Project. The DepArtment element hAs A key nAmed depKey on the Attribute DepArtmentNo. The Project hAs An Attribute nAmed DepArtmentNo, And we'd like to define it As foreign key.Which of followings cAn be use?

Answer: <xs: keyref nAme="depRef" refers="depKey"><xs: selector: xpAth="Project"/><xs: field xpAth="DepArtmentN 0"/></xs: keyref>

56. suppose relAtion R(A,B,C,D,E) And set of FD's S={A->B,B->D,AD->C}.Find on the key of R

Answer: {A}

57. Suppose the relAtion Employee(SSN,NAme,SAlAry,DepArtment).Which of the followings returns All those employees with sAlAry exceeds sAlAry of All employees from depArtment 1

Answer: All of the others

58. Which of the followings is not true About XML documents

Answer: XML dAtA is presented in one or more documents

59. Suppose relAtion R(A,B,C,D,E) And set of FD's A->D,AD->C,C->BE.Compute {A}+

Answer: {A,D,C,B,E}

60. DAtAbAse users cAn connect to dAtAbAse mAnAgement system As\_\_\_\_\_\_\_\_\_\_\_\_

Answer: All of the others

61. Any CreAte commAnd mAybe reserved by using A \_\_\_ commAnd

Answer: Commit

62. Suppose A relAtion R(A,B,C) where All Attributes Are numeric And we'd like to creAte A modifying view. Which of followings is vAlid?

Answer: All of the others

63. The keyword WITH CUBE is used in \_\_\_clAuse

Answer: GROUP BY

64.Suppose two relAtions R(A,B) And S(C,D),where A,B,C,D,E Are interger Attributes.which of following queries is invAlid?

Answer: INSERT INTO R(A,B)SELECT \* FROM S

65.Which of the following is the responsibility od DTD?

Answer.All of the others.

66.Which of the following is TRUE About semi-structured dAtA?

Answer.It is self-decribing

67.Which of following keywords cAn be used in well-formed XML document?

Answer.All of the others

68.WHich of following is chArAteristic of object relAtionAl dAtA model?

Answer.All of the others.

69.WHich of following stAtement is not DML?

Answer.CREATE

70.Choose the fAlse stAtement About the decomposition into 3NF?

Answer.the decomposition hAs the dependency preservAtion proverty.

71.WHich of following is A disAdvAntAges of using index?

Answer.An index mAkes updAte operAtions becomes more complex.

72.WHich of following cAn AppeAr in PSM procedure definition?

Answer.All of the others.

73.WHich of following stAtement cAn be used in PSM procedure definition?

Answer.All of the others.

74.WHich of following relAtionAl operAtions Are considerAbly more efficient if we use the bAg model?

Answer.Difference.

75.Choose A right Answer

Answer.An AuthorizAtion ID mAy be grAnted privileges fromm others or mAy give its.

76.Which of the following stAtements is TRUE?

Answer.Key is the super key.

77.Choose the incorrect stAtement.

Answer.ClAsses Are sets of objects,with stAte And behAviors.

78.WHich of following is not the extended operAtor of relAtionAl AlgebrAb?

Answer.NAturAl join operAtors.

79.Which of the following is TRUE About E/R model?

Answer.All of the others.

80.Which of the following is TRUE?

Answer.All of the others.

81.The ER DiAgrAm uses three principle element types:

Answer.Entity sets,Attributes And ConstrAints.

82.Consider A relAtion with schemA R(A,B,C,D) And FD's BC.Which of the following is the key of R?

Answer.BC.

83.In A tree structure,A/An\_\_\_\_\_\_hAs no Arc out.

Answer.leAf node

84.\_\_\_\_\_\_\_connect web-clients to the dAtAbAse system,usuAlly over the Internet or possibly A locAl connection.

Answer.Web server proccesses.

85.DAtA Definition lAnguAge(DDL) is used to...

Answer.All of the others.

86.Which of the following hAs the sAme meAning As domAin-bAsed constrAint?

Answer.Attributes-bAsed constrAint

87.The result of(UNKNOWN OR TRUE) is.

Answer.TRUE

88.Suppose An updAtAble view PArAmountMovies is AssociAted with Movies relAtions.

Answer.An updAte on PArAmoutMovies is trAnslAted into Movies.

89.In PSM we cAn breAk out the loop by using\_\_\_\_\_\_\_ stAtement.

Answer.LEAVE

90.In SQL lAnguAge,the commAnd/stAtement thAt let you chAnge the schemA of A relAtion is:

Answer.Alter

91.EAch web server process cAn invoke one or more\_\_\_\_\_\_\_ to hAndle the request.

Answer.DAtAbAse server proccesses.

92.Select the right stAtement.

Answer.All of the others.

93.The keyword WITH ROLLUP is used in \_\_\_\_\_\_\_\_ clAuse

Answer.WHERE

94.Suppose A relAtion R hAs two not null numeric Attributes A,B.Which of the following queries do we use to count the number of tuples in R?

Answer. All of the others

95.A Atrribute A is cAlled the key of relAtion R if\_\_\_\_\_\_\_

Answer.All of the others

96.In referntiAl integrity constrAint,the referenced Attribute(s) must be \_\_\_\_\_or\_\_\_\_\_

Answer.PrimAry key,Unique key.

97.When we define An Attribute A As PRIMARY KEY of relAtions R,then\_\_\_\_\_\_\_

Answer.There Are no two tuples thAt hAve the sAme As vAlues of the A component.

98.Which of the following stAtement is vAlid?

Answer.All of the others.

99.Which of the following is the principle element type of ER diAgrAm?

Answer.All of the others

100.Which of the following logicAl expressions is FALSE?

Answer.None of the others.

101.WHich of the following is definition of tAbles in SQL?

Answer.TAbles Are the kind of relAtion thAt exists int the dAtAbAse....

102.Which of the follwing is TRUE About weAk entity set?

Answer.All of the others

103.Which of the following is not Applied for the union of two relAtions which Are bAgs?

Answer.We eliminAte duplicAted tuples

104.Which of the following is NOT A stAndArd Aggresion operAtor?

Answer.GROUP

105.Which of the following Action doesn't violAte this constrAint?

Answer.Delete An exist employee.

The DBMS Acts As An interfAce between whAt two components of An enterprise-clAss dAtAbAse system?

Answer DAtAbAse ApplicAtion And the dAtAbAse

Which of the following projects illustrAtes A dAtAbAse being designed from existing dAtA?

Answer A dAtAbAse using the Production DepArtment's spreAdsheets

Which of the following projects illustrAtes A dAtAbAse being designed As A new systems development project?

Answer A dAtAbAse designed to produce production reports for A new Production DepArtment mAnufActuring process

Which of the following products wAs An eArly implementAtion of the relAtionAl model developed by E.F. Codd of IBM?

Answer DB2

The following Are components of A dAtAbAse except

Answer reports

An ApplicAtion where only one user Accesses the dAtAbAse At A given time is An exAmple of A(n)

Answer single-user dAtAbAse ApplicAtion

Which of the following projects illustrAtes A dAtAbAse being designed As A redesign of An existing dAtAbAse?

Answer A dAtAbAse thAt will combine two dAtAbAses currently used by the Production DepArtment

An on-line commerciAl site such As AmAzon.com is An exAmple of A(n)

Answer e-commerce dAtAbAse ApplicAtion

Which of the following products wAs the first to implement true relAtionAl AlgebrA in A PC DBMS?

Answer R: bAse

SQL stAnds for

Answer Structured Query LAnguAge

BecAuse it contAins A description of its own structure, A dAtAbAse is considered to be

Answer self-describing

The following Are functions of A DBMS except

Answer creAting And processing forms

Helping people keep trAck of things is the purpose of A(n)

Answer dAtAbAse

Which of the following products implemented the CODASYL DBTG model?

Answer IDMS

An Enterprise Resource PlAnning ApplicAtion is An exAmple of A(n)

Answer multiuser dAtAbAse ApplicAtion

A DBMS thAt combines A DBMS And An ApplicAtion generAtor is

Answer Microsoft's Access

Which of the following is not considered to be A bAsic element of An enterprise-clAss dAtAbAse system?

Answer COBOL progrAms

The DBMS thAt is most difficult to use is

Answer OrAcle CorporAtion's OrAcle

1. The responsibility of DAtAbAse mAnAgement system is

Answer: Support the storAge/Give users the Ability/Allow users to creAte

2. Choose A incorrect stAtement

Answer: None of the others(DB is A collection/creAted/A collection)

3. Which of following is never used As dAtA model?

Answer: None of the others(RelAtionAl/GrAph-bAsed/HierArchicAl/Tree-bAsed)

4. DAtA model is A notAtion for describing dAtA or informAtion. The description consists of

Answer: Structure of dAtA/OperAtions on the dAtA/ConstrAins on the dAtA

5. When we define An Attribute A As UNIQUE KEY of the relAtion R, then

Answer: The A Attribute is considered/Tuple cAn hAve null/There Are not 2 tuples

6. Two relAtion R And S Are type compAtible if

Answer: They hAve the sAme number of Attributes/The domAin of corresponding

7. A two-dimesion tAble of dAtA is cAlled A

Answer: RelAtion

8. Which of the following Are properties of relAtions?

Answer: All of the others(EAch Attribute/There Are no mutivAlued/No two rows

9. A constrAint between two Attribute sets in A relAtion is cAlled

Answer: FunctionAl dependency

10. Given A relAtion R(A,B,C,D) with functionAl dependencies A->B, C->D. Find one key of R

Answer: {A,C}

11. Given A relAtion R(A,B,C,D) with functionAl dependencies A->C, C->D, AD->B. Which functionAl dependency violAtes BCNF condition?

Answer: C->D

12. Given A relAtion R(A,B,C,D). Which of following is triviAl?

Answer: AB -> A/AB-->A

13. Given A relAtion R(A,B,C,D) with functionAl dependencies A->B, C->D, D->B. Compute {C}+

Answer: {B,C,D}

14. The number of entity sets thAt pArticipAte in A relAtionship is cAlled the

Answer: Degree

15. A relAtionship between the instAnces of A single entity set is cAlled

Answer: BinAry

16. Every depArtment hAs one speciAl employee As mAnAger, And every employee mAy or mAy not be A mAnger of depArtment on which he is A member. This relAtionship is

Answer: One to mAny

Question 1

MArks: 1

Which stAtement is true?

Choose one Answer.

A. XML documents must hAve A root tAg

X b. All of the others

c. XML tAgs Are cAse sensitive

d. XML elements must be properly nested

Answer: All of the others(XML documents/tAgs/elements)

Question 2

MArks: 1

In A typicAl OLAP ApplicAtion, there is A centrAl relAtion or collection of dAtA, cAlled \_\_\_\_\_\_

Choose one Answer.

x A. the fAct tAble

b. All of the others

c. the dimension tAble

d. the stAr tAble

Answer: the fAct tAble

Question 3

MArks: 1

There is A wAy of describing XML dAtA, how?

Choose one Answer.

x A. XML uses A DTD to describe the dAtA

b. All of the others

c. XML uses A description node to describe dAtA

d. XML uses XSL to describe dAtA

Answer: XML uses A DTD to describe the dAtA

Question 4

MArks: 1

Given relAtion R(A,B) thAt hAs 2 tuples (1, 2) And (3, 4); relAtion S(B, C, D) hAs 3 tuples (2, 5, 6), (4, 7, 8) And (9, 10, 11). The nAturAl join of R And S hAs \_\_\_\_\_\_

Choose one Answer.

x A. 2 tuples (1, 2, 5, 6) And (3, 4, 7, 8)

b. 1 tuple (1, 2, 10, 11)

c. 2 tuples (1, 2, 2, 5) And (3, 4, 4, 7)

d. 2 tuples (1, 2, 3, 4) And (5, 6, 7, 8)

Answer: 2 tuples (1, 2, 5, 6) And (3, 4, 7, 8)

Question 5

MArks: 1

Suppose A schemA of relAtion SupplierProduct is SupplierProduct(No, SupplierID, ProductType) where No is A identifier, SupplierID is An identifer of eAch supplier, And ProducType is A type of product which this supplier provides. WhAt will be returned when the following SQL stAtement is executed?

SELECT SupplierID FROM SupplierProduct

GROUP BY SupplierID HAVING count (\*) IN

(SELECT count (distinct ProductType) FROM SupplierProduct);

Choose one Answer.

A. A listing of supplierIDs, which provide All product types

b. A listing of supplierIDs, which provide some product types

x c. A listing of supplierIDs, which provide A specified number of

product types

d. No result, the query is invAlid

Answer: A listing of supplierIDs, which provide A specified number of product types

Question 6

MArks: 1

Which SQL stAtement is used to return only different vAlues?

Choose one Answer.

x A. SELECT DISTINCT

b. SELECT DIFFERENT

c. SELECT UNIQUE

d. SELECT DIFFERENT ALL

Answer: SELECT DISTINCT

Question 7

MArks: 1

We cAn turn the result of A query into A dAtA cube by Appending \_\_\_\_\_\_ to A group-by clAuse

Choose one Answer.

A. WITH SUM

x b. WITH CUBE

c. All of the others

d. WITH AGGREGATE

Answer: WITH CUBE

Question 8

MArks: 1

Choose A well-formed XML document

Choose one Answer.

A. <?xml version="1.0"?>

<to>Tove</to><from>JAni</from><heAding>Reminder</heAding><body>Don't

forget me this weekend!</body>

x b. <?xml version="1.0"?>

<envelope><to>Tove</to><from>JAni</from><heAding>Reminder</heAding><body>Don't

forget me this weekend</body></envelope>

c. <?xml version="1.0"?>

<to>Tove</to><from>JAni</from><heAding>Reminder</heAding><body>Don't

forget me this weekend!</body></end>

d. None of the others

Answer: <?xml version="1.0"?><envelope><to>Tove</to><from>JAni</from><heAding>Reminder</heAding><body>Don't forget me this weekend</body></envelope>

Question 9

MArks: 1

The multiplicity of A binAry relAtionship could be \_\_\_\_\_

Choose one Answer.

A. mAny–to-mAny

b. one-to-mAny

x c. All of the others

d. one-to-one

Answer: All of the others(mAny-to-mAny/one-to-mAny/one-to-one)

Question 10

MArks: 1

Choose the wrong stAtement

Choose one Answer.

x A. None of the others

b. The dAtAbAse tier executes queries thAt Are requested from the

ApplicAtion tier

c. There cAn be mAny processes in the dAtAbAse tier And the processes

cAn be distributed over mAny mAchines or All be together on one

d. Since creAting connections to dAtAbAse tAkes significAnt time, we

normAlly keep A lArge number of connections open And Allow ApplicAtion

processes to shAre the connections

Answer: None of the others(The dAtAbAse/There cAn be mAny/Since creAting connections)

Question 11--------------------------------------------------------------------------------------------------

MArks: 1

Choose the wrong stAtement:

Choose one Answer.

x A. The subclAsses of A clAss in UML cAn be disjoint pArtiAl

b. The subclAsses of A clAss in UML cAn be disjoint overlApping

c. The subclAsses of A clAss in UML cAn be disjoint complete

d. The subclAsses of A clAss in UML cAn be overlApping pArtiAl

Answer: The subclAsses of A clAss in UML cAn be disjoint pArtiAl

Question 12 ---------------------------------

MArks: 1

Select the right stAtement

Choose one Answer.

x A. ReferentiAl integrity constrAint is Also cAlled foreign key constrAint

b. A foreign key constrAint cAn be Added or deleted using the 'Alter

TAble' commAnd

x c. All of the others

d. A foreign key in one tAble points to A PRIMARY KEY in Another tAble

Answer: All of the others (ReferentiAl integrity/A foreign key constrAint/A foreign key in one tAble)

Question 13

MArks: 1

Select the right stAtement

Choose one Answer.

A. InsteAd-of trigger is used to updAte the dAtAbAse tAbles AssociAted

with the view insteAd of updAting the view directly.

b. When A trigger is defined on A view, we cAn use INSTEAD OF in plAce

of BEFORE or AFTER.

x c. All of the others

d. When An event AwAkens the insteAd-of trigger, the Action of the

trigger is done insteAd of the event itself

Answer: All of the others(InsteAd-of-trigger/When A trigger is defined/When An event AwAkens)

Question 14

MArks: 1

The dAtAbAse lAnguAge thAt is used to query And modify the dAtAbAse is cAlled \_\_\_\_\_\_\_

Choose one Answer.

A. All of the others

b. DAtA Control LAnguAge

c. DAtA Definition LAnguAge

x d. DAtA MAnipulAtion LAnguAge

Answer: DAtA MAnipulAtion LAnguAge

Question 15 ---------

MArks: 1

Select the right stAtement

Choose one Answer.

x A. Assertion is A booleAn-vAlued SQL expression thAt must be true At

All times

b. Assertion is not pArt of the dAtAbAse schemA

c. Once creAted, An Assertion cAnnot be dropped unless you delete the

dAtAbAse

d. Assertion condition cAnnot be involved in mAny relAtions.

Answer: Assertion is A booleAn-vAlued SQL expression thAt must be true At All times

Question 16

MArks: 1

When A CHECK constrAint AssociAte to mAny tuples on one or more relAtions, we must creAte

Choose one Answer.

A. Attribute-bAsed CHECK constrAint

b. Tuple-bAsed CHECK constrAint

x c. Assertion

d. All of the others

e. DomAin-bAsed CHECK constrAint

Answer: Assertion

Question 17

MArks: 1

Choose the wrong stAtement

Choose one Answer.

A. The existence of An index on An Attribute mAy speed up the execution

of certAin queries

b. The most useful index on A relAtion is An index on its key.

c. None of the others

x d. An index mAkes updAte operAtions on A relAtion fAster

Answer: An index mAkes updAte operAtions on A relAtion fAster

Question 18 ------------------------------------------

MArks: 1

Consider the DAtAlog rule H(x,y) <- S(x, y) AND x >= y AND y < 3. RelAtion S(x, y) hAs 3 tuples (2, 3), (5, 3), And (3, 3). WhAt is About H?

Choose one Answer.

A. H hAs 2 tuples (3, 3) And (5, 3)

b. H hAs A tuple (3, 3)

x c. None of the others

d. H hAs A tuple (5, 3)

Answer: None of the others

Question 20

MArks: 1

Choose the right stAtement

Choose one Answer.

A. TrAnsAction is A collection of one or more operAtions on the

dAtAbAse thAt must be executed AtomicAlly. ThAt is, either All

operAtions Are performed or none of them is done.

b. In SQL, eAch stAtement is A trAnsAction by itself.

x c. All of the others

d. SQL Allows us to group severAl stAtements into A single trAnsAction.

Answer: All of the others(TrAnsAction is A collection/In SQL, eAch stAtement/SQL Allows us to group)

Question 21--------------------------------------------------------------------------------

MArks: 1

Suppose A relAtion PROJECT(projectID, projectNAme, locAtion, depArtment, ProjectLo1(projectID, projectNAme, depArtment) is An updAtAble view AssociAted to PROJECT where locAtion=1. EvAluAte the following stAtement: INSERT INTO ProjectLo1 (projectID, projectNAme, depArtment) VALUES (200,'ERP1.0',1);

Choose one Answer.

A. The query is executed, there is new tuple (200,'ERP1.0',1) on

ProjectLo1, And new tuple (200,'ERP1.0',1,1) on Project

b. The query is executed, there is no new tuple on ProjectLo1, And new

tuple (200,'ERP1.0',null,1) on Project

c. The query is executed, there is new tuple (200,'ERP1.0',1) on

ProjectLo1, And new tuple (200,'ERP1.0',null,1) on Project

x d. The query is executed but nothing hAppened on Project neither on

ProjectLo1

Answer: The query is executed but nothing hAppened on Project neither on ProjectLo1

Question 22

MArks: 1

Suppose the thetA join R3 : =R1?R2, where C is A condition thAt refers to Attributes of R1 And R2. Which of the followings is correct?

Choose one Answer.

A. EAch tuple t1 of R1 connect with one tuple t2 of R2

x b. EAch tuple t1 of R1 connect with some those tuple t2 of R2 thAt

sAtisfy C

c. EAch tuple t1 of R1 connect with All those tuple t2 of R2 thAt

sAtifsy C

d. None of the others

Answer: EAch tuple t1 of R1 connect with some those tuple t2 of R2 thAt sAtisfy C

Question 23

MArks: 1

Which of the following stAtement is NOT true:

Choose one Answer.

A. Problems such As redundAncy thAt occur when we try to crAm too much

into A single relAtion Are cAlled AnomAlies

b. If X is A key, then X is A super key

x c. A relAtion cAn hAve only one key

d. A set of one or more Attributes {A1, A2, ..., An} is A key for A

relAtion R if these Attributes functionAlly determine All other

Attributes of the relAtion R And these Attributes must be minimAl

Answer: A relAtion cAn hAve only one key

Question 24

MArks: 1

Which of the following is not A vAlid loop construct in PSM?

Choose one Answer.

A. REPEAT UNTIL END REPEAT;

b. LOOP END LOOP;

c. WHILE DO END WHILE;

x d. None of the others

Answer: None of the others(REPEAT UNTIL END REPEAT/LOOP END LOOP/WHILE DO END WHILE)

Question 25

MArks: 1

Select the right stAtement

Choose one Answer.

x A. All of the others

b. A view is A virtuAl tAble

c. Not All views Are updAtAble

d. With updAtAble views, the modificAtion is trAnslAted into An

equivAlent modificAtion on A bAse tAble

Answer: All of the others(A view is A virtuAl tAble/Not All views Are updAtAble/With updAtAble views)

Question 26--------------------------------------------------------------------- trAn sAction

MArks: 1

Which of the following isolAtion levels forbids the reAding of dirty dAtA?

Choose one Answer.

A. SET TRANSACTION ISOLATION LEVEL READ UNCOMMITED;

b. SET TRANSACTION ISOLATION LEVEL SERIALIZABLE;

c. SET TRANSACTION ISOLATION LEVEL READ COMMITTED;

x d. SET TRANSACTION ISOLATION LEVEL REPEATABLE READ;

Answer: SET TRANSACTION ISOLATION LEVEL REPEATABLE READ;

Question 29

MArks: 1

Which of the following is the correct definition of A procedure:

Choose one Answer.

A. CREATE PROCEDURE () RETURNS ;

b. All of the others

----c. CREATE PROCEDURE () ;

d. CREATE PROCEDURE () RETURNS RETURN ;

Answer: CREATE PROCEDURE ();

Question 30

MArks: 1

Which stAtement is true?

Choose one Answer.

A. All XML documents must hAve A DTD

b. All of the others

x c. All XML elements must be properly closed

d. All XML elements must be lower cAse

Answer: All XML elements must be properly closed

Question 31

MArks: 1

Select the wrong stAtement

Choose one Answer.

A. None of the others

b. An index cAn be creAted in A tAble to find dAtA more quickly And

efficiently

x c. A tAble cAn hAve only one index

d. The key for index cAn be Any Attribute or set of Attributes, And

need not be the key of the relAtion

Answer: A tAble cAn hAve only one index

Question 32

MArks: 1

Consider A relAtion with schemA R(A, B, C, D) And the set of FDs: BC -> D, D -> A, A -> B. Compute {AC}+

Choose one Answer.

A. {A, C, D}

b. {A, B, C}

c. {A, C}

x d. {A, B, C, D}

Answer: {A, B, C, D}

Question 33

MArks: 1

Consider A relAtion with schemA R(A, B, C) And the set of FDs: A -> B, A -> C, B -> A, B -> C, C -> A, C -> B, AB -> C, BC -> A, AC -> B, A -> BC, B -> AC, C -> AB. Find A minimAl bAsis for relAtion R.

Choose one Answer.

x A. A -> B, B -> C, C -> A

b. All of the others

c. AC -> B, BC -> A

d. AC -> B, BC -> A, A -> BC

Answer: A -> B, B -> C, C -> A

Question 34

MArks: 1

Choose the wrong stAtement

Choose one Answer.

A. A user defined type (UDT) cAn be the type of A tAble

b. None of the others

c. A user defined type cAn be the type of An Attribute belonging to

some tAble

x d. A user defined type (UDT) cAnnot be the type of A tAble

Answer: A user defined type (UDT) cAnnot be the type of A tAble

Question 35

MArks: 1

A type of An Attribute thAt cAn be used As pointer to A user-defined type (UDT) is cAlled \_\_\_\_\_\_

Choose one Answer.

A. pointer types

b. None of the others

x c. reference types

d. linking types

Answer: reference types

Question 36

MArks: 1

Which of the following is not A vAlid privilege in SQL?

Choose one Answer.

x A. PROCEDURE

b. TRIGGER

c. EXECUTE

d. REFERENCES

Answer: PROCEDURE

Question 37

MArks: 1

In the three-tier Architecture, the function of the ApplicAtion tier is to \_\_\_\_\_\_\_

Choose one Answer.

x A. Execute the business logic of the orgAnizAtion operAting the dAtAbAse

b. All of the others

c. Perform queries And modificAtions At the request of the ApplicAtion

servers

d. MAnAge the interActions with the user

Answer: Execute the business logic of the orgAnizAtion operAting the dAtAbAse

Question 38

MArks: 1

Select the right stAtement

Choose one Answer.

x A. UpdAting views Are Allowed if query involves A single bAse relAtion

And contAins A cAndidAte key of bAse relAtion

b. UpdAting views Are Allowed if query involves AggregAtion or grouping

operAtions

c. UpdAting views Are Allowed if query involves multiple bAse relAtions.

d. All of the others

Answer: UpdAting views Are Allowed if query involves A single bAse relAtion And contAins A cAndidAte key of bAse relAtion

Question 39

MArks: 1

Given tAble MovieStAr defined As follows: CREATE TABLE MovieStAr( nAme CHAR(30) PRIMARY KEY, Address VARCHAR(256), gender CHAR(1) CHECK (gender IN ('M','F')), birthdAte DATE NOT NULL )

Which of the following query is not vAlid?

Choose one Answer.

x A. INSERT INTO MovieStAr VALUES ('Tom Cruz', '123 Little Rd, LA city',

'M', NULL);

b. INSERT INTO MovieStAr(nAme, gender, birthdAy) VALUES ('Tom Cruz',

'M', '1973-09-12 00: 00: 00');

c. INSERT INTO MovieStAr VALUES ('Tom Cruz', NULL, 'M', '1973-09-12

00: 00: 00');

d. INSERT INTO MovieStAr(nAme, Address, gender, birthdAy) VALUES ('Tom

Cruz', NULL, 'M', '1973-09-12 00: 00: 00');

Answer: INSERT INTO MovieStAr VALUES ('Tom Cruz', '123 Little Rd, LA city', 'M', NULL);

Question 40

MArks: 1

Suppose the relAtion tblEmployee(EmployeeID, EmployeeNAme, SAlAry, depArtment). Consider the following code in SQL Server 2005:

DECLARE @EmployeeID INT, @EmployeeNAme NVARCHAR(50), @SALARY DECIMAL(10,0);

DECLARE myCursor CURSOR FOR Select EmployeeID, EmployeeNAme, SAlAry FROM

tblEMPLOYEE WHERE depArtment=1;

OPEN myCursor;

FETCH NEXT FROM myCursor INTO @EmployeeID,@EmployeeNAme,@SAlAry;

IF @@FETCH\_STATUS <> 0

PRINT '<<NONE>>';

WHILE @@FETCH\_STATUS = 0

BEGIN

PRINT @EmployeeID+' '+@EmployeeNAme+' <mAilto: '+@EmployeeNAme+'>

'+@SAlAry <mAilto: '+@SAlAry>;

FETCH NEXT FROM myCursor INTO @EmployeeID,@EmployeeNAme,@SAlAry;

END

CLOSE myCursor;

DEALLOCATE myCursor;

WhAt hAppens if we execute this code?

Choose one Answer.

x A. It's executed successfully, And prints out three vAlues for eAch

existing employee in tblEmployee tAble

b. It's executed successfully, but nothing is displAyed in output

c. It's executed successfully, And the output is the simple text '<>'

d. It cAn not be executed successfully.

Answer: It's executed successfully, And prints out three vAlues for eAch existing employee in tblEmployee tAble

Question 41 ---------------------------

MArks: 1

Which of the following constructs cAn be used in PSM?

Choose At leAst one Answer.

x A. LOOP ... END LOOP;

b. WHILE .... DO ...

c. DO ... WHILE ....

d. FOR ... DO ...

Answer: LOOP ... END LOOP;

Question 43

MArks: 1

List All the movies thAt hAve length less thAn 100 And were produced by

A studio nAme other thAn ‘Fox’. Select the right Answer.

Choose one Answer.

A. Selection NOT(length=100) AND NOT(studioNAme=‘Fox’)(Movies)

x b. None of the others

c. Selection length<100 AND studioNAme <>‘Fox’(Movies)

d. Selection NOT(length=100 OR studioNAme=‘Fox’)(Movies)

Answer: None of the others (Section NOT/length/NOT)

Question 44

MArks: 1

Which of the following is considered AnomAly?

Choose one Answer.

x A. All of the others

b. informAtion mAy be chAnged in one tuple, but mAy not be chAnged in

other tuple(s)

c. if A set of vAlues becomes empty, we mAy lose other informAtion As A

side effect

d. informAtion mAy be repeAted unnecessArily in severAl tuples

Answer: All of the others(informAtion mAy/if A set of vAlues/informAtion mAy be repeAted)

Question 45

MArks: 1

Suppose the relAtion Employee(SSN, FullnAme, SAlAry, SupervisorSSN).

Consider the following condition:

NOT EXISTS (SELECT \* FROM EMPLOYEE WHERE SupervisorSSN NOT IN (SELECT

SSN FROM EMPLOYEE)).

Which of the following Activities mAy violAte this condition?

Choose one Answer.

A. Insert new employee

b. Delete existing emplyee

x c. All of the others

d. UpdAte existing employee

Answer: All of the others(Insert new/Delete existing/UpdAte existing)

Question 47

MArks: 1

Choose the right Answer:

Choose one Answer.

x A. DuplicAte-eliminAtion operAtor is used to convert A bAg to A set

b. DuplicAte-eliminAtion operAtor is used to Add duplicAte tuple to A

relAtion

c. None of the others

d. DuplicAte-eliminAtion operAtor is used to convert A set to A bAg

Answer: DuplicAte-eliminAtion operAtor is used to convert A bAg to A set

Question 48

MArks: 1

Suppose relAtion R1 hAs n1 Attributes And t1 tuples, relAtion R2 hAs n2 Attributes And t2 tuples, then the CArtesiAn Product R3 = R1 x R2 hAs \_\_\_\_\_\_\_\_

Choose one Answer.

A. n1\*n2 Attributes, And t1\*t2 tuples

b. n1\*n2 Attributes, And t1+t2 tuples

c. n1+n2 Attributes, And t1\*t2 tuples

d. n1+n2 Attributes, And t1+t2 tuples

Answer: n1+n2 Attributes, And t1\*t2 tuples

Question 49

MArks: 1

Suppose relAtion R(A,B,C,D) with FD's A?B, B?D, CD?A. This relAtion is decomposed into 3 relAtions S1={A,D}, S2={A,C}, S3={B,C,D}. Is this decomposition lossless join?

Choose one Answer.

A. Yes

x b. No

Answer: No

Question 50

MArks: 1

Which is not A correct nAme for An XML element?

Choose one Answer.

A. &ltNote>

b. &lt1dollAr>

c. All of the others

d. &lthAv1>

Answer: All of the others(&ItNode>/&It1dollAr>/&IthAv1>

Question 53

MArks: 1

The degree of A relAtionship is \_\_\_\_\_\_

Choose one Answer.

A. The number of binAry relAtionships

b. The number of Attributes in A relAtion

c. The number of entities involved with the relAtionship

d. The number of tuples in A relAtion

Answer: The number of entities involved with the relAtionship

DAtA modeling mAy be the most importAnt pArt of the systems development process becAuse:

Answer: DAtA chArActeristics Are importAnt in the design of progrAms And other systems components

A business rule:

Answer: All of the Above: Define, Assert, Controls

Business rules should be determined primArily by interviewing executives in the business.

Answer: FAlse

The common types of entities Are:

Answer: All: Strong, WeAk, AssociAtive

A property or chArActeristic of An entity type thAt is of interest to the orgAnizAtion is cAlled A(n):

Answer: Attribute

A relAtionship is An AssociAtion between Attributes.

Answer: FAlse

A good dAtA nAme should be:

Answer: reAdAble, unique, And repeAtAble

A multivAlued Attribute is An Attribute thAt is common to mAny entities.

Answer: FAlse

A person's nAme, birthdAy, And sociAl security number Are All exAmples of:

Answer: Attributes

A(n) \_\_\_\_\_ is the relAtionship between A weAk entity type And its owner.

Answer: identifying relAtionship

The \_\_\_\_\_ specifies the number of instAnces of one entity thAt cAn (or must) be AssociAted with eAch instAnce of Another entity.

Answer: cArdinAlity constrAint

The degree of A relAtionship is the number of entity types thAt pArticipAte in A relAtionship.

Answer: True

A ternAry relAtionship is A simultAneous relAtionship between more thAn three entity types.

Answer: FAlse

Which is NOT A bAsic construct of An E-R model?

Answer: Identifiers

An Attribute thAt cAn be cAlculAted from relAted Attribute vAlues is cAlled A \_\_\_\_\_Attribute

Answer: derived

An Attribute thAt uniquely identifies An entity, And consists of A composite Attribute is cAlled A(n):

Answer: Composite identifier

An entity thAt AssociAtes the instAnces of one or more entity types And contAins Attributes specific to the relAtionships is cAlled A(n):

Answer: AssociAtive entity

The number of entity types thAt pArticipAte in A relAtionship is cAlled the:

Answer: Degree

A relAtionship between the instAnces of A single entity type is cAlled A \_\_\_\_\_relAtionship.

Answer: UnAry

An entity type nAme should AlwAys be A singulAr noun.

Answer: True

A simultAneous relAtionship Among the instAnces of three entity types is cAlled A \_\_\_\_\_relAtionship.

Answer: ternAry

A \_\_\_\_\_ specifies the number of instAnces of one entity thAt cAn be AssociAted with eAch instAnce of Another entity.

Answer: CArdinAlity constrAint

A relAtionship where the minimum And mAximum cArdinAlity Are both one is A(n) \_\_\_\_\_ relAtionship.

Answer: MAndAtory one

A mutuAlly exclusive relAtionship is one in which:

Answer: An entity instAnce cAn pArticipAte in only one of severAl AlternAtive relAtionships

A student cAn Attend five clAsses, eAch with A different professor. EAch professor hAs 30 students. The relAtionship of students to professors is A \_\_\_\_\_ relAtionship.

Answer: MAny-to-mAny

The totAl quiz points for A student for An entire semester is A(n) \_\_\_\_\_ Attribute.

Answer: Derived

A join operAtion:

Answer: cAuses two dispArAte tAbles to be combined...

DAtA Definition lAnguAge (DDL) is used to:

Answer: declAre dAtAbAse schemAs

A dAtAbAse is An orgAnized collection of \_\_\_ relAted dAtA.

Answer: logicAlly

The relAtion dAtA model consists of which component?

Answer: All: DAtA integrity, DAtA mAnipulAtion, DAtA structure

A rule thAt CANNOT be violAte by dAtAbAse users is cAlled A:

Answer: constrAint

In the SQL lAnguAge, the\_\_\_ stAtement is usedto creAt dAtAbAse definitions

Answer: creAte tAble

Which of the following types of dAtA cAn be stored in AdAtAbAse

Answer: All: Voice, letters, numbers

Given A relAtion R(A,B,C,D) with dependencies A-->C, C->D. Which of the followings doesn't hold in R?

Answer: A->C

WhAt is the property thAt good decomposition must hAve?

Answer: All: EliminAtion of AnomAlies, RecoverAbility of informAtion, PreservAtion of dependencies

Given A relAtion R(A,B,C,D) with functionAl dependencies A->BC, C->D,D->A. Find one key of R

Answer: {A}

FunctionAl dependency is A constrAint on \_\_\_\_\_\_\_\_\_\_

Answer: Two sets of Attributes of A relAtion

One Attribute is cAlled prime if \_\_\_\_\_\_\_\_\_\_

Answer: It is A member of key

Choose the fAlse stAtement About the decomposition into BCNF?

Answer: The decomposition hAs the dependency preservAtion property

Choose A right stAtement

Answer: If X is A key, then X is A super key

The principle strAtegy to convert subclAsses to relAtions is \_\_\_\_\_\_\_\_\_

Answer: All: Follow, TreAt, Use

Choose A wrong Answer

Answer: UML offers multi-wAy relAtionships

Choose A right Answer

Answer: All: the vAlue, Entity set, RelAtionship

When we sAy one clAss hAs mAny students, And A student is A member of one clAss, we meAn thAt the multiplicity of this relAtionship from clAss entity set to student entity set is \_\_\_\_\_\_\_\_\_

Answer: One - mAny

An Attribute (or Attributes) thAt uniquely identifies eAch row in A relAtion is cAlled A/An:

Answer: primAry key

Choose A wrong stAtement

Answer: E/R model represents both the structure of dAtA And the operAtions on dAtA

The number of entity types thAt pArticipAte in A relAtionship is cAlled the :

Answer: degree

An Attribute of the relAtion R to which the ? is Applied is cAlled

Answer: Grouping Attribute

To convert A bAg to A set, we use \_\_\_\_\_\_\_\_\_ operAtor

Answer: d

Suppose R(A,B,C) is bAg, S=sA>B(R). Choose A right Answer

Answer: S hAs the sAme schemA As R, And S hAs less or equAl tuples thAn R hAs

Suppose A relAtion R(A,B,C) As A bAg, And A relAtion S=pA,B(d(R)) As A bAg, too. R hAs 4 tuples (1,2,2), (1,3,2), (1,2,2), And (1,2,3). S hAs\_\_\_\_\_\_\_\_\_\_ tuples

Answer: 3

Suppose A relAtion R(A,B) hAs 4 tuples (1,2), (2,3), (1,1), (2,4). A result of ?A,SUM(B)?SUM(R) is \_\_\_\_\_\_\_\_\_\_

Answer: A relAtion hAs 2 tuples (1,3), (2,7)

Suppose A relAtion R(A,B) And S(B,C) As A bAgs. R hAs 2 tuples (1,2),(1,4) And S hAs 3 tuples (2,3), (4,5) And (4,5). The thetA-join R ? \_R.B<S.B S hAs \_\_\_\_\_\_\_\_\_\_ tuples

Answer: 2

Choose one Answer.

Answer: This operAtion is vAlid And the result hAs three tuples

The result of ((10<NULL) OR TRUE) AND (UNKNOWN OR FALSE) is

Answer: UNKNOWN

Which of following is not pArt of DAtA MAnipulAtion LAnguAge (DML)?

Answer: CREATE stAtement

Suppose A relAtion R hAs two Attributes A And B. Choose A vAlid query

Answer: SELECT A, B, COUNT(\*) FROM R GROUP BY A, B

Choose the right stAtement

Answer: All: Sub-queries cAn AppeAr, return A single, return relAtions

Which of following condition is TRUE

Answer: (UNKNOWN OR TRUE) OR (UNKNOWN AND FALSE)

Suppose A relAtion R hAs two numeric non-null Attributes A, B. Which of the following queries do we use to count the number of tuples in R ?

Answer: COUNT(\*) COUNT(A) COUNT(B)

Suppose A relAtion S hAs three numeric Attributes A, B, And C. Choose A vAlid query

Answer: SELECT A, SUM(\*) FROM S GROUP BY A HAVING COUNT(B)<20

NULL vAlue is \_\_\_\_\_\_\_\_\_\_

Answer: All: unknown, inApplicAble, withheld

Choose A wrong Answer

Answer: Every relAtion hAs only one index

Choose A right Answer

Answer: A virtuAl view is defined by An expression like A query

Given the relAtion Movies(title, yeAr, length, genre, studioNAme).Select the right query to creAte A view with the titles And studio nAmes of All movies thAt were produced in 1980

Answer: CREATE VIEW OldMovies AS SELECT title, studioNAme FROM Movies where yeAr=1980

When A user mAkes contAct, A \_\_\_\_\_\_\_\_\_\_ response to the request, And the user becomes A client of this \_\_\_\_\_\_\_\_\_\_ process.

Answer: webserver, webserver

Function pArAmeters mAy be of mode \_\_\_\_\_\_\_\_\_\_

Answer: IN

Which of the followings is right About well-formed XML documents?

Answer: All: involve, hAve, begin

The DBMS Acts As An interfAce between whAt two components of An enterprise-clAss dAtAbAse system?

Answer: DAtAbAse ApplicAtion And the dAtAbAse

Which of the following projects illustrAtes A dAtAbAse being designed from existing dAtA?

Answer: A dAtAbAse using the Production DepArtment's spreAdsheets

Which of the following projects illustrAtes A dAtAbAse being designed As A new systems development project?

Answer: A dAtAbAse designed to produce production reports for A new Production DepArtment mAnufActuring process

Which of the following products wAs An eArly implementAtion of the relAtionAl model developed by E.F. Codd of IBM?

Answer: DB2

The following Are components of A dAtAbAse except \_\_\_\_\_\_\_\_ .

Answer: reports

An ApplicAtion where only one user Accesses the dAtAbAse At A given time is An exAmple of A(n) \_\_\_\_\_\_\_\_ .

Answer: multiuser dAtAbAse ApplicAtion

Which of the following projects illustrAtes A dAtAbAse being designed As A redesign of An existing dAtAbAse?

Answer: A dAtAbAse thAt will combine two dAtAbAses currently used by the Production DepArtment

An on-line commerciAl site such As AmAzon.com is An exAmple of A(n) \_\_\_\_\_\_\_\_ .

Answer: e-commerce dAtAbAse ApplicAtion

Which of the following products wAs the first to implement true relAtionAl AlgebrA in A PC DBMS?

Answer: R: bAse

SQL stAnds for \_\_\_\_\_\_\_\_ .

Answer: Structured Query LAnguAge

BecAuse it contAins A description of its own structure, A dAtAbAse is considered to be \_\_\_\_\_\_\_\_ .

Answer: self-describing

The following Are functions of A DBMS except \_\_\_\_\_\_\_\_ .

Answer: creAting And processing forms

Helping people keep trAck of things is the purpose of A(n) \_\_\_\_\_\_\_\_ .

Answer: dAtAbAse

Which of the following products implemented the CODASYL DBTG model?

Answer: IDMS

An Enterprise Resource PlAnning ApplicAtion is An exAmple of A(n) \_\_\_\_\_\_\_\_ .

Answer: multiuser dAtAbAse ApplicAtion

A DBMS thAt combines A DBMS And An ApplicAtion generAtor is \_\_\_\_\_\_\_\_ .

Answer: Microsoft's Access

You hAve run An SQL stAtement thAt Asked the DBMS to displAy dAtA in A tAble nAmed USER\_TABLES. The results include columns of dAtA lAbeled "TAbleNAme," "NumberOfColumns" And "PrimAryKey." You Are looking At \_\_\_\_\_\_\_\_ .

Answer: metAdAtA

Which of the following is not considered to be A bAsic element of An enterprise-clAss dAtAbAse system?

Answer: COBOL progrAms

The DBMS thAt is most difficult to use is \_\_\_\_\_\_\_\_ .

Answer: OrAcle CorporAtion's OrAcle

The relAtionAl dAtAbAse model wAs creAted by E.F. Codd.

Answer: True

A dAtAbAse is cAlled "self-describing" becAuse it contAins A description of itself

Answer: True

In A dAtAbAse, dAtA is stored in spreAdsheets which hAve rows And columns.

Answer: FAlse

A dAtAbAse hAs dAtA And relAtionships.

Answer: True

DAtAbAses creAte informAtion.

Answer: True

One of the reAsons why OODBMSs hAve not been widely used for business informAtion systems is thAt OOP is obsolete.

Answer: FAlse

A dAtAbAse AdministrAtor designs, constructs, And mAnAges the dAtAbAses.

Answer: True

In An enterprise-clAss dAtAbAse system, business users interAct directly with dAtAbAse ApplicAtions, which directly Access the dAtAbAse dAtA.

Answer: FAlse

ApplicAtions Are progrAms thAt interAct directly with the dAtAbAse.

Answer: FAlse

The purpose of A dAtAbAse is to help people stop using spreAdsheets.

Answer: FAlse

Microsoft Access is An enterprise-clAss dAtAbAse product.

Answer: FAlse

Structured Query LAnguAge (SQL) is An internAtionAlly recognized stAndArd lAnguAge thAt is understood by All commerciAl dAtAbAse mAnAgement system products.

Answer: True

The XML fAmily of stAndArds is very importAnt in dAtAbAse processing todAy.

Answer: True

A dAtAbAse has A built-in cApAbility to creAte, process And Administer itself.

Answer: FAlse

Enterprise Resource PlAnning (ERP) is An exAmple of A single user dAtAbAse.

Answer: FAlse

Prior to 1970, All data was stored in separAte files, which were mostly stored on reels of magnetic tape.

Answer: True

A database design may be bAsed on existing dAta.

Answer: True

The DBMS rAnked As being the "eAsiest to use" in the text is OrAcle CorporAtion's OrAcle.

Answer: FAlse

DatAbase Applications Are seldom intended for use by A single user.

Answer: FAlse

The DBMS rAnked As being the "hArdest to use" in the text is Microsoft's SQL Server.

Answer: FAlse

In An Enterprise-clAss dAtAbAse system, business users interAct directly with dAtAbAse ApplicAtions thAt interAct with the DBMS, which directly Accesses the dAtAbAse dAtA.

Answer: True

Suppose R And S Are bAgs, And t is the tuple thAt AppeArs n-times And m-times in R And S (n=0, m=0).How mAny time dose t tupe AppeAr in

Answer: In {R^S}, t AppeArs (n + m) times, In {R U S}, t AppeArs MIN(n, m) times, In {R \ S}, t AppeArs MAX(0, n - m) times

Arithmetic operAtors on NULL vAlues will return

Answer: A NULL vAlue

CompArisons with NULL vAlues will return

Answer: UNKNOWN

Choose the fAlse stAtement About the decomposition in to BCNF

Answer: the relAtions of the...

\_\_\_is the frAmework under which dAtA Ay exist And SQL operAtions on dAtA mAy beexecuted

Answer: SQL environment

which of the following is the extended operAtor of relAtionAl AlgebrA?

Answer: All: Outerijoins, Grouping, DuplicAte

Which stAtement is true regArding subqueries?

Answer: All: The NOT, = ANY, the IN

In ODL, if we hAve A mAy- one relAtionship from clAss C to clAss D,then\_\_

Answer: InclAss C, the type of the relAtionship is just D, while the type of the relAtionship in D is SET

which of the following stAtement is invAlid?

Answer: if A->B, B->->C hold in relAtion R, then A=>Vholds,too

which of the following is Applied in PSM

Answer: All: Cursors, queries, Subqueries

Which of the followings mAy be A pArt of well-formed XML document?

Answer: All

sUPPOSE THE REALTION sAle(ITEM, CUSTOMER, quAntity, price) with more thAn billion tupeles from the lArge dAtAbAse. We try to provideA rApid rAndom And sequentiAl Access to this tAble by\_\_\_

Answer: CreAting some indicies

Which of the followings is chArActeristic of UML?

Answer: ClAsses Are sets of objects, with sAtAte And behAviors

Suppose R(A,B) And S(B,C) Are bAgs. R hAs two tuples (1,2), (2,30. S hAsthree tuples (1,3), (3,2), (2,1). EvAlue the following relAtionAl expression: gA,SUM(C)-> SUMC(R\*S), where \* denotes the nAturAl join

Answer: the result relAtion hAs two tuples (1,1) And (2,2)

Which of the followings is belong to DML?

Answer: GRANT

The responsibility of DAtAbAse mAnAgement system is\_\_

Answer: All: Allowusers, Support, Give

Which of the following DAtAlog rules is unsAfe?

Answer: Q(x,y,z)<- U(x,y) AND T(x,y) AND NOT T(x,z)

Which of the following stAtement is used to delete All dAtA from tAble EMPLOYEES except it's schemA?

Answer: DELETE FROM EMPLOYEES

Which of the followings hAs the sAme meAning As Attribute-bAsed constrAint?

Answer: Entity-bAsed constrAint

When we define An Attribute A As PRIMARY KEY of relAtion R, then\_\_

Answer: All: tuple must be not, there Are no two, no more primAry key...

An Attributesin\_\_\_Are only integers And chArActer strings

Answer: ODL

how cAn we convert the subclAss structure to relAtions?

Answer: Contruct A single relAtion for whole hierArchy ofenitity sets

Choose A right Answer

Answer: A virtuAl view is defined by An expression like A query

The most useful index on A relAtion is An index on its key. This is becAuse:

Answer: Queries in which A vAlue for the key is ...

Which of the following is not A benefit of using views?

Answer: None of the others

Suppose An updAtAble view FoxMovies is AssociAted with Movies relAtion. Choose A right Answer

Answer: All: An updAte on Movies is trAnslAted into FoxMovies vA ngc lAi,Drop FoxMovies does not Affect Movies

A clustering index is \_\_\_\_\_\_

Answer: An index thAt is defined on non-key field(s) And there cAn be more thAn one record corresponding to A vAlue of the indexing field

Choose the invAlid stAtement

Answer: Views Allow eAch user to hAve his or her own view of the dAtAbAse, which creAtes dAtA redundAncy

Suppose A relAtion R(A,B,C) where All Attributes Are numeric. Choose A vAlid query to creAte An updAtAble view

Answer: None of the others

Which of the fllowing stAtement is true About User Defined Type?

Answer: All: An UDT, the 0-0, mAny relAtions

Which of the following is true About SQL session?

Answer: the sessions lAsts As long As the conection thAt creAted it

Which of the followings is fAlse About weAk entity set?

Answer: THe key for A weAk

WhAt do we sAy A bout views?

Answer: All: droping : A bAse tAble, A view, views dont exist

Which of the followings is right About Attributes on XML documents?

Answer: DTD is A grAmmAr

Which of the followings evolves to informAtion integrAtion?

Answer: None of other

Which of the followings wAs the first ever used for dAtA model?

Answer: File system

An A Attribute is cAlled the key of relAtion R if\_\_\_

Answer: All: it functionAlly, Its closure, there Are no

Where cAnnot we use PSM procedures

Answer: None of the others

View is\_\_\_\_

Answer: None of the others

\_\_\_mAnAge the interAtions with the user

Answer: the webserver-tier processes

Which of the followings is fAlse About E/R model?

Answer: Attributes Are very simply types...

Which of the following stAtement is true?

Answer: A recursion in DAtAlog cAn be expressed in relAtionAl AlgebrA

Which of the followings doesn't tAke the key's condition 'no two tuples Aree on All Attributes f key'?

Answer: Foregn key

Suppose relAtion R(A,B,C,D), And set of FD's S={A->B, B->D,AD->C}. find one key of R

Answer: {A}

Which of the followings is not true About XML documents?

Answer: XML dAtA is presented in one or more document

Suppose relAtion R(A,B,C,D,E) And se of FDs A->D, AD->C, C->BE. Compute {A}+

Answer: {A,B,C,D,E}

dAtAbAse users cAn connect to dAtAbAse mAnAgement system As

Answer: All: DAtAbAse designer, DAtAbAse AdinistrAtor, DAtAbAse end-user

The DBMS acts as an interface between what two components of an enterprise-class database system?

A. Database application and the database

B. Data and the database

C. The user and the database application

D. Database application and SQL

Answer: A. Database application and the database

Which of the following projects illustrates a database being designed from existing data?

A. A database using the Production Department's spreadsheets

B. A database designed to produce production reports for a new Production Department manufacturing process

C. A database that will combine two databases currently used by the Production Department

D. None of the above is correct.

Answer: A. A database using the Production Department's spreadsheets

Which of the following projects illustrates a database being designed as a new systems development project?

A. A database using the Production Department's spreadsheets

B. A database designed to produce production reports for a new Production Department manufacturing process

C. A database that will combine two databases currently used by the Production Department

D. None of the above is correct.

Answer: B. A database designed to produce production reports for a new Production Department manufacturing process

Which of the following products was an early implementation of the relational model developed by E.F. Codd of IBM?

A. IDMS

B. DB2

C. dBase-II

D. R:base

Answer: B. DB2

The following are components of a database except \_\_\_\_\_\_\_\_ .

A. user data

B. metadata

C. reports

D. indexes

Answer: C. reports

An application where only one user accesses the database at a given time is an example of a(n) \_\_\_\_\_\_\_\_ .

A. single-user database application

B. multiuser database application

C. e-commerce database application

D. data mining database application

Answer: A. single-user database application

Which of the following projects illustrates a database being designed as a redesign of an existing database?

A. A database using the Production Department's spreadsheets

B. A database designed to produce production reports for a new Production Department manufacturing process

C. A database that will combine two databases currently used by the Production Department

D. None of the above is correct.

Answer: C. A database that will combine two databases currently used by the Production Department

An on-line commercial site such as Amazon.com is an example of a(n) \_\_\_\_\_\_\_\_ .

A. single-user database application

B. multiuser database application

C. e-commerce database application

D. data mining database application

Answer: C. e-commerce database application

Which of the following products was the first to implement true relational algebra in a PC DBMS?

A. IDMS

B. Oracle

C. dBase-II

D. R:base

Answer: D. R:base

SQL stands for \_\_\_\_\_\_\_\_ .

A. Structured Query Language

B. Sequential Query Language

C. Structured Question Language

D. Sequential Question Language

Answer: A. Structured Query Language

Because it contains a description of its own structure, a database is considered to be \_\_\_\_\_\_\_\_ .

A. described

B. metadata compatible

C. self-describing

D. an application program

Answer: C. self-describing

The following are functions of a DBMS except \_\_\_\_\_\_\_\_ .

A. creating and processing forms

B. creating databases

C. processing data

D. administrating databases

Answer: A. creating and processing forms

Helping people keep track of things is the purpose of a(n) \_\_\_\_\_\_\_\_ .

A. database

B. table

C. instance

D. relationship

Answer: A. database

Which of the following products implemented the CODASYL DBTG model?

A. IDMS

B. DB2

C. dBase-II

D. R:base

Answer: A. IDMS

An Enterprise Resource Planning application is an example of a(n) \_\_\_\_\_\_\_\_ .

A. single-user database application

B. multiuser database application

C. e-commerce database application

D. data mining database application

Answer: B. multiuser database application

A DBMS that combines a DBMS and an application generator is \_\_\_\_\_\_\_\_ .

A. Microsoft's SQL Server

B. Microsoft's Access

C. IBM's DB2

D. Oracle Corporation's Oracle

Answer: B. Microsoft's Access

You have run an SQL statement that asked the DBMS to display data in a table named USER\_TABLES. The results include columns of data labeled "TableName," "NumberOfColumns" and "PrimaryKey." You are looking at \_\_\_\_\_\_\_\_ .

A. user data.

B. metadata

C. A report

D. indexes

Answer: B. metadata

Which of the following is not considered to be a basic element of an enterprise-class database system?

A. Users

B. Database applications

C. DBMS

D. COBOL programs

Answer: D. COBOL programs

The DBMS that is most difficult to use is \_\_\_\_\_\_\_\_ .

A. Microsoft's SQL Server

B. Microsoft's Access

C. IBM's DB2

D. Oracle Corporation's Oracle

Answer: D. Oracle Corporation's Oracle

The relational database model was created by E.F. Codd.

A. True

B. False

Answer: A. True

A database is called "self-describing" because it contains a description of itself.

A. True

B. False

Answer: A. True

In a database, data is stored in spreadsheets which have rows and columns.

A. True

B. False

Answer: B. False

A database has data and relationships.

A. True B. False

Answer: A. True

One of the reasons why OODBMSs have not been widely used for business information systems is that OOP is obsolete.

A. True

B. False

Answer: B. False

One of the reasons why OODBMSs have not been widely used for business information systems is that OOP is obsolete.

A. True

B. False

Answer: B. False

In an enterprise-class database system, business users interact directly with database applications, which directly access the database data.

A. True

B. False

Answer: B. False

Applications are programs that interact directly with the database.

A. True

B. False

Answer: B. False

The purpose of a database is to help people stop using spreadsheets.

A. True

B. False

Answer: B. False

Microsoft Access is an enterprise-class database product.

A. True

B. False

Answer: B. False

Structured Query Language (SQL) is an internationally recognized standard language that is understood by all commercial database management system products.

A. True

B. False

Answer & Explanation

Answer: A. True

The XML family of standards is very important in database processing today.

A. True B. False

Answer & Explanation

Answer: A. True

A database has a built-in capability to create, process and administer itself.

A. True B. False

Answer & Explanation

Answer: B. False

Enterprise Resource Planning (ERP) is an example of a single user database.

A. True B. False

Answer & Explanation

Answer: B. False

Prior to 1970, all data was stored in separate files, which were mostly stored on reels of magnetic tape.

A. True B. False

Answer & Explanation

Answer: A. True

A database design may be based on existing data.

A. True B. False

Answer & Explanation

Answer: A. True

The DBMS ranked as being the "easiest to use" in the text is Oracle Corporation's Oracle.

A. True B. False

Answer & Explanation

Answer: B. False

Database applications are seldom intended for use by a single user.

A. True B. False

Answer & Explanation

Answer: B. False

The DBMS ranked as being the "hardest to use" in the text is Microsoft's SQL Server.

A. True B. False

Answer & Explanation

Answer: B. False

In an Enterprise-class database system, business users interact directly with database applications that interact with the DBMS, which directly accesses the database data.

A. True B. False

Answer & Explanation

Answer: A. True

1.

Which of the following languages is used to define the schema of the database?

DCL

Answer: DDL

DML

None of these

The DDL (Data Definition Language) is used to define the schema of the database and relations between entities.

2.

A group of associated fields is called a \_\_\_\_\_\_\_.

field

Answer: record

table

attribute

Each record contains values for the corresponding attributes. The values of the attributes for a record are interrelated. For example, different cars have different values for the same specifications (length, color, engine capacity, etc.).

3.

The security features of the database are set up by the \_\_\_\_\_\_\_.

Online Users

Answer: Database Administrator

Application Programmer

Naive Users

The Database Administrator has the total control of the database and is responsible for the setting up and maintaining the database.

4.

The DML is used for:

a) Creating tables

b) Retrieving data

c) Deleting users

d) Inserting data

e) Deleting data

Answer: b) Retrieving data d) Inserting data e) Deleting data

b,c,d

None of these

All of these

The DML (Data Manipulation Language) enables us to access and operate upon the data in the database.

5.

Which of the following are the roles of the Database Administrator:

a) Managing security issues

b) Storage structure definition

c) Develop application programs

d) Take backups of the database

a

a,b,c

Answer: a) Managing security issues b) Storage structure definition d) Take backups of the database

All of these

The Database Administrator has the total control of the database and is responsible for the setting up and maintaining the database.

6.

Which language is used to permit or prohibit access to a table?

Answer: DCL

DDL

DML

All of these

The DDL is used to design the schema of the database, the DML to operate upon the data and DCL is used to control the access to the database.

7.

Which language is used to define the integrity constraints?

Answer: DDL

DCL

DML

None of these

The DDL is used to design the schema of the database, the DML to operate upon the data and DCL is used to control the access to the database.

8.

The relationship between data is defined in the \_\_\_\_\_\_\_.

view level

Answer: logical level

physical level

The logical level of abstraction defines the type of data that is stored in the database and the relationship between them.

9.

The database oriented approach \_\_\_\_\_\_\_ the redundancy of data compared to the file oriented approach.

increases

Answer: reduces

In the database oriented approach, we store the common data in one table and access it from the required tables. Thus the same data is not stored at multiple places.

10.

The database oriented approach does not support multiple views of the same data.

Answer: True

False

The database oriented approach supports multiple views of the same data. For example, a clerk may only be able to see his details, whereas the manager can view the details of all the clerks working under him.

1.

Which company has developed the hierarchical model?

Answer: IBM

Sun Microsystems

Microsoft

Oracle

The hierarchical model was developed by IBM in 1968. It represents data in the form of trees.

2.

In Relational Model, rows are referred to as \_\_\_\_\_\_\_ and columns are referred to as \_\_\_\_\_\_\_.

attributes, tuples

nodes, connectors

connectors, nodes

Answer: tuples, attributes

A table consists of a number of rows (records/tuples) and columns (attributes).

3.

In the Relational Model, each \_\_\_\_\_\_\_ contains values for the \_\_\_\_\_\_\_.

entity, domains

attribute, tuples

Answer: tuple, attributes

relation, entities

In the Relational Model, each table consists of a number of tuples (rows) that contain the vales for attributes (columns).

4.

In the hierarchical model the relationship between records is expressed as \_\_\_\_\_\_\_.

unique key for each record

pointers or links

Answer: parent-child

Since the hierarchical model follows the tree structure, the parent node has the links to its child nodes.

5.

In the hierarchical database, the \_\_\_\_\_\_\_ can be located using the hashing function.

child nodes

primary key

Answer: root

None of these

In the hierarchical database, the hashing function is used to locate the root.

6.

In the Relational Model, the number of columns in a table is termed as \_\_\_\_\_\_\_.

cardinality

Answer: degree

domain

None of these

In the Relational Model, the degree of the table denotes the number of columns.

7.

In the Relational Model, the number of rows in a table is termed as \_\_\_\_\_\_\_.

Answer: cardinality

degree

domain

None of these

In the Relational Model, the degree of the table denotes the number of columns.

8.

The domain in the relational model is said to be atomic if the elements of the domain consist of \_\_\_\_\_\_\_ units.

redundant

distinct

Answer: indivisible

divisible

A domain in the relational model is said to be atomic is it consists of indivisible units. For example, name is not atomic since it can be divided into first name and last name.

9.

Which data model organizes the data in the form of tables and relations?

Answer: Relational Model

Hierarchical Model

Network Model

The Relational Model, organizes data in the form of independent tables (consisting of rows and columns) that are related to each other.

10.

Which structure is the hierarchical model based on?

Answer: Tree

Graph

Linked List

None of these

The hierarchical model is like a tree structure where the nodes represent the records and the branches of the tree represent the fields.

1.

SQL is a record level language.

True

Answer: False

SQL is a set level language as it operates upon a set of records. Languages that operate on one record at a time are known as record level languages.

2.

Which type of SQL environment provides more flexibility in the event of any change in database object names?

Embedded

Real - time

Answer: Dynamic

PL

In Embedded SQL, the SQL statements are embedded in the program and in Dynamic SQL, the SQL statements are created dynamically. Thus, if the names of the database objects change, it is easier to change the dynamic SQL statements as compared to the embedded SQL statements.

3.

If our program generate SQL statements on-the-fly and sends it to the database as a text file, the SQL environment in use is known as \_\_\_\_\_\_\_ SQL.

PL

Answer: Dynamic

Real - time

Embedded

In Dynamic SQL, the SQL statements are not embedded in the program but are created dynamically.

4.

The size of SQL data types differ across platforms.

True

Answer: False

SQL data types are the same across platforms. For example a INTEGER will occupy 4 bytes on both a Windows and a Linux platform.

5.

If we write a program in a programming language and switch to SQL when we require to use the database, then the SQL environment in use is know as \_\_\_\_\_\_\_ SQL.

Real - time

PL

Answer: Embedded

Dynamic

Through Embedded SQL, we can create programs that access the database through SQL statements embedded in it.

6.

SQL is platform independent.

Answer: True

False

An SQL statement written on a Windows platform gives the same output on a Linux platform. Thus, SQL statements are platform independent however not necessarily database vendor independent.

7.

SQL is used for:

Answer: creating, managing and deleting tables and manage the relationships among the stored date. & generating queries, organizing, managing and retrieving data stored in a database. & maintaining data integrity and coordinate data sharing.

None of the above

SQL is used to perform various operations on the data in the database like creating, modifying & deleting tables, maintaining data integrity and retrieving the data.

8.

SQL stands for \_\_\_\_\_\_\_.

Answer: Structured Query Language

Structural Query Language

Structured Question Language

Systematic Query Language

SQL stands for Structured Query Language.

9.

SQL is a \_\_\_\_\_\_\_ language.

Answer: non-procedural

procedural

object-oriented

For the RDBMS, an SQL program is just a single statement and is executed as a whole.

10.

SQL statements can be executed without a DBMS.

True

Answer: False

SQL statements cannot be executed without a DBMS.

1.

What are the two types of tables that can be created in a RDBMS? Add Question to Review List

Static and Dynamic

Local and Global

Answer: Permanent and Temporary

Permanent and Temporary tables can be created in a RDBMS. The data in a permanent table persists after the session expires however the data in a temporary table is available only in the session that populated it. Temporary tables are generally used to store large intermediate calculations.

2.

What are the type of temporary tables that can be created in a RDBMS? Add Question to Review List

Persistent and Non-Persistent

No sub-types of temporary tables exist

Answer: Local and Global

Static and Dynamic

Global temporary tables can be accessed by all the programs in that session. However, the program that created the local temporary table has exclusive access to it.

3.

The ON COMMIT clause can be applied to \_\_\_\_\_\_\_ tables. Add Question to Review List

permanent

Answer: temporary

both temporary and permanent

The ON COMMIT clause on temporary tables specifies that the records in the table are deleted when the transaction completes.

4.

Which of the following are valid column constraints:

A. NULL

B. DISTINCT

C. CHECK

D. FOREIGN KEY

Add Question to Review List

A

C

Answer: CHECK & FOREIGN KEY

All of the above

NOT NULL, UNIQUE, PRIMARY KEY, FOREIGN KEY, REFERENCES and CHECK are the valid column keys.

5.

Which of the following are valid table constraints:

A. PRIMARY KEY

B. UNIQUE

C. CHECK

D. FOREIGN KEY Add Question to Review List

A and D

B and C

A, C and D

Answer: All of the above

UNIQUE, CHECK, PRIMARY KEY and FORIEGN KEY are the valid table constraints.

6.

Table constraints can be applied to individual columns and groups of columns. Add Question to Review List

Answer: True

False

Table constraints can be applied to individual columns and groups of columns.

7.

Which of the following are valid referential integrity constraint optional clauses for ON DELETE:

A. NO ACTION

B. CASCADE

C. SET NULL

D. SET DEFAULT Add Question to Review List

A and B

Answer: NO ACTION & CASCADE & SET NULL)

A, B and D

All of the above

NO ACTION, CASCADE and SET NULL are the valid referential integrity optional clauses for ON DELETE.

8.

Which of the following are valid referential integrity constraint optional clauses for ON UPDATE:

A. NO ACTION

B. CASCADE

C. SET NULL

D. SET DEFAULT Add Question to Review List

A and B

A, B and D

A, B and C

Answer: All of the above

NO ACTION, CASCADE, SET NULL and SET DEFAULT are the valid referential integrity constraint optional clauses for ON UPDATE.

9.

Which referential integrity constraint optional clause performs the same changes to the foreign key as were made to the parent? Add Question to Review List

ACTION

Answer: CASCADE

SAME ACTION

None of the above

The CASCADE reverential integrity constraint optional clause performs the same changes to the foreign key as were made to the parent.

10.

A DEFERRABLE constraint is checked after every DDL statement. Add Question to Review List

True

Answer: False

DEFERRABLE constraints are checked after every DELETE, UPDATE and INSERT statement or after a transaction.

1.

You can add a row using SQL in a database with which of the following?

A. ADD

B. CREATE

C. INSERT

D. MAKE

Answer & Explanation

Answer: C. INSERT

Explanation:

No answer description available for this question. Let us discuss.

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2.

The command to remove rows from a table 'CUSTOMER' is:

A. REMOVE FROM CUSTOMER ...

B. DROP FROM CUSTOMER ...

C. DELETE FROM CUSTOMER WHERE ...

D. UPDATE FROM CUSTOMER ...

Answer & Explanation

Answer: C. DELETE FROM CUSTOMER WHERE ...

Explanation:

No answer description available for this question. Let us discuss.

Workspace

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3.

The SQL WHERE clause:

A. limits the column data that are returned.

B. limits the row data are returned.

C. Both A and B are correct.

D. Neither A nor B are correct.

Answer & Explanation

Answer: B. limits the row data are returned.

Explanation:

No answer description available for this question. Let us discuss.

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4.

Which of the following is the original purpose of SQL?

A. To specify the syntax and semantics of SQL data definition language

B. To specify the syntax and semantics of SQL manipulation language

C. To define the data structures

D. All of the above.

Answer & Explanation

Answer: To specify the syntax and semantics of SQL data definition language & To specify the syntax and semantics of SQL manipulation language & To define the data structures

Explanation:

No answer description available for this question. Let us discuss.

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5.

The wildcard in a WHERE clause is useful when?

A. An exact match is necessary in a SELECT statement.

B. An exact match is not possible in a SELECT statement.

C. An exact match is necessary in a CREATE statement.

D. An exact match is not possible in a CREATE statement.

Answer & Explanation

Answer: B. An exact match is not possible in a SELECT statement.

Explanation:

No answer description available for this question. Let us discuss.

6.

A view is which of the following?

A. A virtual table that can be accessed via SQL commands

B. A virtual table that cannot be accessed via SQL commands

C. A base table that can be accessed via SQL commands

D. A base table that cannot be accessed via SQL commands

Answer & Explanation

Answer: A. A virtual table that can be accessed via SQL commands

Explanation:

No answer description available for this question. Let us discuss.

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7.

The command to eliminate a table from a database is:

A. REMOVE TABLE CUSTOMER;

B. DROP TABLE CUSTOMER;

C. DELETE TABLE CUSTOMER;

D. UPDATE TABLE CUSTOMER;

Answer & Explanation

Answer: B. DROP TABLE CUSTOMER;

Explanation:

No answer description available for this question. Let us discuss.

Workspace

Open the calculator

Report Errors

Kindly mention the details of the error here... [Your Name] [Your Email]

View Answer Workspace Report Discuss in Forum

8.

ON UPDATE CASCADE ensures which of the following?

A. Normalization

B. Data Integrity

C. Materialized Views

D. All of the above.

Answer & Explanation

Answer: B. Data Integrity

Explanation:

No answer description available for this question. Let us discuss.

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9.

SQL data definition commands make up a(n) \_\_\_\_\_\_\_\_ .

A. DDL B. DML

C. HTML D. XML

Answer & Explanation

Answer: A. DDL

Explanation:

No answer description available for this question. Let us discuss.

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10.

Which of the following is valid SQL for an Index?

A. CREATE INDEX ID;

B. CHANGE INDEX ID;

C. ADD INDEX ID;

D. REMOVE INDEX ID;

Answer & Explanation

Answer: A. CREATE INDEX ID;

Explanation:

No answer description available for this question. Let us discuss.

11.

The SQL keyword(s) \_\_\_\_\_\_\_\_ is used with wildcards.

A. LIKE only

B. IN only

C. NOT IN only

D. IN and NOT IN

Answer & Explanation

Answer: A. LIKE only

Explanation:

No answer description available for this question. Let us discuss.

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1) What does SQL stand for?

a) Strong Question Language

b) Structured Question Language

Answer: c) Structured Query Language

2) Which SQL statement is used to extract data from a database?

a) GET

b) OPEN

c) EXTRACT

Answer: d) SELECT

e) QUERY

3) Which SQL statement is used to update data in a database?

Answer: a) UPDATE

b) SAVE AS

c) MODIFY

d) SAVE

4) Which SQL statement is used to delete data from a database?

a) TRUNCATE

Answer: b) DELETE

c) REMOVE

5) Which SQL statement is used to insert new data in a database?

a) ADD RECORD

b) ADD INTO

Answer: c) INSERT

d) ADD NEW

6) With SQL, how do you select a column named "FirstName" from a table named "Persons"?

a) EXTRACT FirstName FROM Persons

Answer: b) SELECT FirstName FROM Persons

c) SELECT Persons.FirstName

7) With SQL, how do you select all the columns from a table named "Persons"?

a) SELECT [all] FROM Persons

b) SELECT All Persons

c) SELECT \*.Persons

Answer: d) SELECT \* FROM Persons

8) With SQL, how do you select all the records from a table named "Persons" where the value of the column "FirstName" is "Peter"?

a) SELECT [all] FROM Persons WHERE FirstName='Peter'

b) SELECT \* FROM Persons WHERE FirstName LIKE 'Peter'

c) SELECT [all] FROM Persons WHERE FirstName LIKE 'Peter'

Answer: d) SELECT \* FROM Persons WHERE FirstName='Peter'

9) With SQL, how do you select all the records from a table named "Persons" where the value of the column "FirstName" starts with an "a"?

a) SELECT \* FROM Persons WHERE FirstName='%a%'

b) SELECT \* FROM Persons WHERE FirstName LIKE '%a'

c) SELECT \* FROM Persons WHERE FirstName='a'

Answer: d) SELECT \* FROM Persons WHERE FirstName LIKE 'a%'

e) SELECT \* FROM Persons WHERE FirstName='a'"

10) The OR operator displays a record if ANY conditions listed are true. The AND operator displays a record if ALL of the conditions listed are true

Answer: a) True

b) False

11) With SQL, how do you select all the records from a table named "Persons" where the "FirstName" is "Peter" and the "LastName" is "Jackson"?

a) SELECT \* FROM Persons WHERE FirstName LIKE 'Peter' AND LastName LIKE 'Jackson'

Answer: b) SELECT \* FROM Persons WHERE FirstName='Peter' AND LastName='Jackson'

c) SELECT FirstName='Peter', LastName='Jackson' FROM Persons

12) With SQL, how do you select all the records from a table named "Persons" where the "LastName" is alphabetically between (and including) "Hansen" and "Pettersen"?

a) SELECT LastName>'Hansen' AND LastName<'Pettersen' FROM Persons

Answer: b) SELECT \* FROM Persons WHERE LastName BETWEEN 'Hansen' AND 'Pettersen'

c) SELECT \* FROM Persons WHERE LastName>'Hansen' AND LastName<'Pettersen'

13) Which SQL statement is used to return only different values?

a) SELECT UNIQUE

b) SELECT INDENTITY

c) SELECT DIFFERENT

Answer: d) SELECT DISTINCT

14) Which SQL keyword is used to sort the result-set?

a) SORT BY

b) ORDER

Answer: c) ORDER BY

d) SORT

15) With SQL, how can you return all the records from a table named "Persons" sorted descending by "FirstName"?

a) SELECT \* FROM Persons SORT BY 'FirstName' DESC

Answer: b) SELECT \* FROM Persons ORDER BY FirstName DESC

c) SELECT \* FROM Persons ORDER FirstName DESC

d) SELECT \* FROM Persons SORT 'FirstName' DESC

16) With SQL, how can you insert a new record into the "Persons" table?

Answer: a) INSERT INTO Persons VALUES ('Jimmy', 'Jackson')

b) INSERT ('Jimmy', 'Jackson') INTO Persons

c) INSERT VALUES ('Jimmy', 'Jackson') INTO Persons

17) With SQL, how can you insert "Olsen" as the "LastName" in the "Persons" table?

Answer: a) INSERT INTO Persons (LastName) VALUES ('Olsen')

b) INSERT ('Olsen') INTO Persons (LastName)

c) INSERT INTO Persons ('Olsen') INTO LastName

18) How can you change "Hansen" into "Nilsen" in the "LastName" column in the Persons table?

a) UPDATE Persons SET LastName='Hansen' INTO LastName='Nilsen'

Answer: b) UPDATE Persons SET LastName='Nilsen' WHERE LastName='Hansen'

c) MODIFY Persons SET LastName='Hansen' INTO LastName='Nilsen

d) MODIFY Persons SET LastName='Nilsen' WHERE LastName='Hansen'

19) With SQL, how can you delete the records where the "FirstName" is "Peter" in the Persons Table?

Answer: a) DELETE FROM Persons WHERE FirstName = 'Peter'

b) DELETE ROW FirstName='Peter' FROM Persons

c) DELETE FirstName='Peter' FROM Persons

20) With SQL, how can you return the number of records in the "Persons" table?

a) SELECT COLUMNS() FROM Persons

Answer: b) SELECT COUNT(\*) FROM Persons

c) SELECT COLUMNS(\*) FROM Persons

d) SELECT COUNT() FROM Persons

21) Given an employees table as follows: empid name managerid a1 bob NULL b1 jim a1 B2 tom a1 What value will select count(\*) from employees return?

a) 1

b) 2

Answer: c) 3

d) none of the above

22) The result of a SELECT statement can contain duplicate rows.

Answer: a) True

b) False

23) Sometimes the expression "select count(\*)" will return fewer rows than the expression "select count(value)".

a) True

Answer: b) False

24) What type of lock will deny users any access to a table?

a) EXPLICIT

b) IMPLICIT

Answer: c) EXCLUSIVE

d) SHARED

e) READ ONLY

25) Which of the following is the correct SQL statement to use to remove rows from a table?

a) DROP

b) REMOVE ROW

Answer: c) DELETE

d) DELETE ROW

26) The only way to join two tables is by using standard, ANSI syntax.

a) True

Answer: b) False

27) A NULL value is treated as a blank or 0.

a) True

Answer: b) False

28) The left outer join is one type of outer join. Another one is the.

a) right

b) full

c) right outer

d) full outer

Answer: e) all of the above

12.

Which of the following is the correct order of keywords for SQL SELECT statements?

A. SELECT, FROM, WHERE

B. FROM, WHERE, SELECT

C. WHERE, FROM,SELECT

D. SELECT,WHERE,FROM

Answer & Explanation

Answer: SELECT, FROM, WHERE

Explanation:

No answer description available for this question. Let us discuss.

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13.

A subquery in an SQL SELECT statement is enclosed in:

A. braces -- {...}.

B. CAPITAL LETTERS.

C. parenthesis -- (...) .

D. brackets -- [...].

Answer & Explanation

Answer: parenthesis -- (...) .

Explanation:

No answer description available for this question. Let us discuss.

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14.

The result of a SQL SELECT statement is a(n) \_\_\_\_\_\_\_\_ .

A. report B. form

C. file D. table

Answer & Explanation

Answer: table

Explanation:

No answer description available for this question. Let us discuss.

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15.

Which of the following are the five built-in functions provided by SQL?

A. COUNT, SUM, AVG, MAX, MIN

B. SUM, AVG, MIN, MAX, MULT

C. SUM, AVG, MULT, DIV, MIN

D. SUM, AVG, MIN, MAX, NAME

Answer & Explanation

Answer: COUNT, SUM, AVG, MAX, MIN

Explanation:

No answer description available for this question. Let us discuss.

16.

In an SQL SELECT statement querying a single table, according to the SQL-92 standard the asterisk (\*) means that:

A. all columns of the table are to be returned.

B. all records meeting the full criteria are to be returned.

C. all records with even partial criteria met are to be returned.

D. None of the above is correct.

Answer & Explanation

Answer: all columns of the table are to be returned.

Explanation:

No answer description available for this question. Let us discuss.

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17.

The HAVING clause does which of the following?

A. Acts like a WHERE clause but is used for groups rather than rows.

B. Acts like a WHERE clause but is used for rows rather than columns.

C. Acts like a WHERE clause but is used for columns rather than groups.

D. Acts EXACTLY like a WHERE clause.

Answer & Explanation

Answer: Acts like a WHERE clause but is used for groups rather than rows.

Explanation:

No answer description available for this question. Let us discuss.

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18.

The SQL -92 wildcards are \_\_\_\_ and \_\_\_\_ .

A. asterisk (\*); percent sign (%)

B. percent sign (%); underscore (\_)

C. underscore(\_); question mark (?)

D. question mark (?); asterisk (\*)

Answer & Explanation

Answer: percent sign (%); underscore (\_)

Explanation:

No answer description available for this question. Let us discuss.

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19.

To remove duplicate rows from the results of an SQL SELECT statement, the \_\_\_\_\_\_\_\_ qualifier specified must be included.

A. ONLY B. UNIQUE

C. DISTINCT D. SINGLE

Answer & Explanation

Answer: DISTINCT

Explanation:

No answer description available for this question. Let us discuss.

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20.

The benefits of a standard relational language include which of the following?

A. Reduced training costs

B. Increased dependence on a single vendor

C. Applications are not needed.

D. All of the above.

Answer & Explanation

Answer: Reduced training costs

Explanation:

No answer description available for this question. Let us discuss.

21.

Which of the following do you need to consider when you make a table in SQL?

A. Data types

B. Primary keys

C. Default values

D. All of the above.

Answer & Explanation

Answer: All of the above.

Explanation:

No answer description available for this question. Let us discuss.

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22.

SQL query and modification commands make up a(n) \_\_\_\_\_\_\_\_ .

A. DDL B. DML

C. HTML D. XML

Answer & Explanation

Answer: DML

Explanation:

No answer description available for this question. Let us discuss.

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23.

When three or more AND and OR conditions are combined, it is easier to use the SQL keyword(s):

A. LIKE only.

B. IN only.

C. NOT IN only.

D. Both IN and NOT IN.

Answer & Explanation

Answer: Both IN and NOT IN.

Explanation:

No answer description available for this question. Let us discuss.

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24.

The Microsoft Access wildcards are \_\_\_\_ and \_\_\_\_ .

A. asterisk (\*); percent sign (%)

B. percent sign (%); underscore (\_)

C. underscore(\_); question mark (?)

D. question mark (?); asterisk (\*)

Answer & Explanation

Answer: question mark (?); asterisk (\*)

Explanation:

No answer description available for this question. Let us discuss.

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25.

Find the SQL statement below that is equal to the following: SELECT NAME FROM CUSTOMER WHERE STATE = 'VA';

A. SELECT NAME IN CUSTOMER WHERE STATE IN ('VA');

B. SELECT NAME IN CUSTOMER WHERE STATE = 'VA';

C. SELECT NAME IN CUSTOMER WHERE STATE = 'V';

D. SELECT NAME FROM CUSTOMER WHERE STATE IN ('VA');

Answer & Explanation

Answer: SELECT NAME FROM CUSTOMER WHERE STATE IN ('VA');

Explanation:

No answer description available for this question. Let us discuss.

26.

Which one of the following sorts rows in SQL?

A. SORT BY

B. ALIGN BY

C. ORDER BY

D. GROUP BY

Answer & Explanation

Answer: ORDER BY

Explanation:

No answer description available for this question. Let us discuss.

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27.

To sort the results of a query use:

A. SORT BY.

B. GROUP BY.

C. ORDER BY.

D. None of the above is correct.

Answer & Explanation

Answer: ORDER BY.

Explanation:

No answer description available for this question. Let us discuss.

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28.

To define what columns should be displayed in an SQL SELECT statement:

A. use FROM to name the source table(s) and list the columns to be shown after SELECT.

B. use USING to name the source table(s) and list the columns to be shown after SELECT.

C. use SELECT to name the source table(s) and list the columns to be shown after USING.

D. use USING to name the source table(s) and list the columns to be shown after WHERE.

Answer & Explanation

Answer: use FROM to name the source table(s) and list the columns to be shown after SELECT.

Explanation:

No answer description available for this question. Let us discuss.

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29.

SQL can be used to:

A. create database structures only.

B. query database data only.

C. modify database data only.

D. All of the above can be done by SQL.

Answer & Explanation

Answer: All of the above can be done by SQL.

Explanation:

No answer description available for this question. Let us discuss.

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30.

The SQL statement that queries or reads data from a table is \_\_\_\_\_\_\_\_ .

A. SELECT

B. READ

C. QUERY

D. None of the above is correct.

Answer & Explanation

Answer: SELECT

Explanation:

No answer description available for this question. Let us discuss.

31.

The SQL keyword BETWEEN is used:

A. for ranges.

B. to limit the columns displayed.

C. as a wildcard.

D. None of the above is correct.

Answer & Explanation

Answer: for ranges.

Explanation:

No answer description available for this question. Let us discuss.

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32.

A subquery in an SQL SELECT statement:

A. can only be used with two tables.

B. can always be duplicated by a join.

C. has a distinct form that cannot be duplicated by a join.

D. cannot have its results sorted using ORDER BY.

Answer & Explanation

Answer: has a distinct form that cannot be duplicated by a join.

Explanation:

No answer description available for this question. Let us discuss.

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33.

\_\_\_\_\_\_\_\_ was adopted as a national standard by ANSI in 1992.

A. Oracle

B. SQL

C. Microsoft Access

D. DBase

Answer & Explanation

Answer: SQL

Explanation:

No answer description available for this question. Let us discuss.

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34.

SQL is:

A. a programming language.

B. an operating system.

C. a data sublanguage.

D. a DBMS.

Answer & Explanation

Answer: a data sublanguage.

Explanation:

No answer description available for this question. Let us discuss.

1.

The condition in a WHERE clause can refer to only one value.

A. True B. False

Answer & Explanation

Answer: False

Explanation:

No answer description available for this question. Let us discuss.

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2.

The ADD command is used to enter one row of data or to add multiple rows as a result of a query.

A. True B. False

Answer & Explanation

Answer: False

Explanation:

No answer description available for this question. Let us discuss.

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3.

SQL provides the AS keyword, which can be used to assign meaningful column names to the results of queries using the SQL built-in functions.

A. True B. False

Answer & Explanation

Answer: True

Explanation:

No answer description available for this question. Let us discuss.

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4.

The SELECT command, with its various clauses, allows users to query the data contained in the tables and ask many different questions or ad hoc queries.

A. True B. False

Answer & Explanation

Answer: True

Explanation:

No answer description available for this question. Let us discuss.

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5.

A SELECT statement within another SELECT statement and enclosed in square brackets ([...]) is called a subquery.

A. True B. False

Answer & Explanation

Answer: False

Explanation:

No answer description available for this question. Let us discuss.

6.

The rows of the result relation produced by a SELECT statement can be sorted, but only by one column.

A. True B. False

Answer & Explanation

Answer: False

Explanation:

No answer description available for this question. Let us discuss.

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7.

There is an equivalent join expression that can be substituted for all subquery expressions.

A. True B. False

Answer & Explanation

Answer: False

Explanation:

No answer description available for this question. Let us discuss.

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8.

A dynamic view is one whose contents materialize when referenced.

A. True B. False

Answer & Explanation

Answer: True

Explanation:

No answer description available for this question. Let us discuss.

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9.

SQL is a programming language.

A. True B. False

Answer & Explanation

Answer: False

Explanation:

No answer description available for this question. Let us discuss.

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10.

SELECT DISTINCT is used if a user wishes to see duplicate columns in a query.

A. True B. False

Answer & Explanation

Answer: False

Explanation:

No answer description available for this question. Let us discuss.

11.

Indexes can usually be created for both primary and secondary keys.

A. True B. False

Answer & Explanation

Answer: True

Explanation:

No answer description available for this question. Let us discuss.

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12.

Each index consumes extra storage space and also requires overhead maintenance time whenever indexed data change value.

A. True B. False

Answer & Explanation

Answer: True

Explanation:

No answer description available for this question. Let us discuss.

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13.

The HAVING clause acts like a WHERE clause, but it identifies groups that meet a criterion, rather than rows.

A. True B. False

Answer & Explanation

Answer: True

Explanation:

No answer description available for this question. Let us discuss.

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14.

SQL is a data sublanguage.

A. True B. False

Answer & Explanation

Answer: True

Explanation:

No answer description available for this question. Let us discuss.

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15.

The qualifier DISTINCT must be used in an SQL statement when we want to eliminate duplicate rows.

A. True B. False

Answer & Explanation

Answer: True

Explanation:

No answer description available for this question. Let us discuss.

16.

DISTINCT and its counterpart, ALL, can be used more than once in a SELECT statement.

A. True B. False

Answer & Explanation

Answer: False

Explanation:

No answer description available for this question. Let us discuss.

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17.

The result of every SQL query is a table.

A. True B. False

Answer & Explanation

Answer: True

Explanation:

No answer description available for this question. Let us discuss.

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18.

COUNT(field\_name) tallies only those rows that contain a value; it ignores all null values.

A. True B. False

Answer & Explanation

Answer: True

Explanation:

No answer description available for this question. Let us discuss.

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19.

SUM, AVG, MIN, and MAX can only be used with numeric columns.

A. True B. False

Answer & Explanation

Answer: False

Explanation:

No answer description available for this question. Let us discuss.

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20.

Most companies keep at least two versions of any database they are using.

A. True B. False

Answer & Explanation

Answer: True

Explanation:

No answer description available for this question. Let us discuss.

21.

The format SELECT-FROM-WHERE is the fundamental framework of SQL SELECT statements.

A. True B. False

Answer & Explanation

Answer: True

Explanation:

No answer description available for this question. Let us discuss.

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22.

Indexes may be created or dropped at any time.

A. True B. False

Answer & Explanation

Answer: True

Explanation:

No answer description available for this question. Let us discuss.

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23.

The SQL statement: SELECT Number1 + Number 2 AS Total FROM NUMBER\_TABLE; adds two numbers from each row together and lists the results in a column named Total.

A. True B. False

Answer & Explanation

Answer: True

Explanation:

No answer description available for this question. Let us discuss.

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24.

ORDER BY can be combined with the SELECT statements.

A. True B. False

Answer & Explanation

Answer: True

Explanation:

No answer description available for this question. Let us discuss.

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25.

Data manipulation language (DML) commands are used to define a database, including creating, altering, and dropping tables and establishing constraints.

A. True B. False

Answer & Explanation

Answer: False

Explanation:

No answer description available for this question. Let us discuss.

26.

Scalar aggregate are multiple values returned from an SQL query that includes an aggregate function.

A. True B. False

Answer & Explanation

Answer: False

Explanation:

No answer description available for this question. Let us discuss.

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27.

The keyword LIKE can be used in a WHERE clause to refer to a range of values.

A. True B. False

Answer & Explanation

Answer: False

Explanation:

No answer description available for this question. Let us discuss.

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28.

The SQL statement: SELECT Name, COUNT(\*) FROM NAME\_TABLE; counts the number of name rows and displays this total in a table with a single row and a single column.

A. True B. False

Answer & Explanation

Answer: False

Explanation:

No answer description available for this question. Let us discuss.

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29.

The SQL keyword GROUP BY instructs the DBMS to group together those rows that have the same value in a column.

A. True B. False

Answer & Explanation

Answer: True

Explanation:

No answer description available for this question. Let us discuss.

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Kindly mention the details of the error here... [Your Name] [Your Email]

View Answer Workspace Report Discuss in Forum

30.

The wildcard asterisk (\*) is the SQL-92 standard for indicating "any sequence of characters."

A. True B. False

Answer & Explanation

Answer: False

Explanation:

No answer description available for this question. Let us discuss.

31.

Microsoft Access has become ubiquitous, and being able to program in Access is a critical skill.

A. True B. False

Answer & Explanation

Answer: False

Explanation:

No answer description available for this question. Let us discuss.

Workspace

Open the calculator

Report Errors

Kindly mention the details of the error here... [Your Name] [Your Email]

View Answer Workspace Report Discuss in Forum

32.

SQL provides five built-in functions: COUNT, SUM, AVG, MAX, MIN.

A. True B. False

Answer & Explanation

Answer: True

Explanation:

No answer description available for this question. Let us discuss.

Workspace

Open the calculator

Report Errors

Kindly mention the details of the error here... [Your Name] [Your Email]

View Answer Workspace Report Discuss in Forum

33.

The keyword BETWEEN can be used in a WHERE clause to refer to a range of values.

A. True B. False

Answer & Explanation

Answer: True

Explanation:

No answer description available for this question. Let us discuss.

Workspace

Open the calculator

Report Errors

Kindly mention the details of the error here... [Your Name] [Your Email]

View Answer Workspace Report Discuss in Forum

34.

To establish a range of values, < and > can be used.

A. True B. False

Answer & Explanation

Answer: True

Explanation:

No answer description available for this question. Let us discuss.

Workspace

Open the calculator

Report Errors

Kindly mention the details of the error here... [Your Name] [Your Email]

View Answer Workspace Report Discuss in Forum

35.

If you are going to use a combination of three or more AND and OR conditions, it is often easier to use the NOT and NOT IN operators.

A. True B. False

Answer & Explanation

Answer: True

Explanation:

No answer description available for this question. Let us discuss.

What does the abbreviation DBMS stand for?

Answer: Database Management System.

2.

Incorrect The advantages of Standard Query Language (SQL) include which of the following in relation to GIS databases?

Answers: Incorrect

3.

Incorrect Which of the following are characteristics of an RDBMS?

Answers: Incorrect

4.

What is a 'tuple'?

Answer: A row or record in a database table.

5.

Incorrect Which of the following are issues to be considered by users of large corporate GIS databases?

Answers: Incorrect.

6.

Incorrect Which of the following are features of the object-oriented approach to databases?

Answers: Incorrect

7.

Correct Redundancy is minimised with a computer based database approach.

Answer: Correct

8.

Incorrect The relational database model is based on concepts proposed in the 1960s and 1970s.

Answer:Incorrect

True

9.

Incorrect A row in a database can also be called a domain.

Answer:Incorrect

False

10.

Incorrect A first step in database creation should be needs analysis.

Answer:Incorrect

True

11.

Incorrect In entity attribute modelling a many to many relationship is represented by M:M.

Answer:Incorrect

False

12.

Incorrect In a networked web based GIS all communications must go through an internet map server.

Answer:Incorrect

False

13.

Incorrect In an OO database approach 'object = attributes + behaviour'.

Answer: Incorrect

False

14.

Correct In an OO database objects may inherit some or all of the characteristics of other objects.

Answer: Correct

1) What does SQL stand for?

Answer: c) Structured Query Language

2) Which SQL statement is used to extract data from a database?

Answer: d) SELECT

3) Which SQL statement is used to update data in a database?

Answer: a) UPDATE

4) Which SQL statement is used to delete data from a database?

Answer: b) DELETE

5) Which SQL statement is used to insert new data in a database?

Answer: c) INSERT

6) With SQL, how do you select a column named "FirstName" from a table named "Persons"?

Answer: b) SELECT FirstName FROM Persons

7) With SQL, how do you select all the columns from a table named "Persons"?

Answer: d) SELECT \* FROM Persons

8) With SQL, how do you select all the records from a table named "Persons" where the value of the column "FirstName" is "Peter"?

Answer: d) SELECT \* FROM Persons WHERE FirstName='Peter'

9) With SQL, how do you select all the records from a table named "Persons" where the value of the column "FirstName" starts with an "a"?

Answer: d) SELECT \* FROM Persons WHERE FirstName LIKE 'a%'

10) The OR operator displays a record if ANY conditions listed are true. The AND operator displays a record if ALL of the conditions listed are true

Answer: a) True

11) With SQL, how do you select all the records from a table named "Persons" where the "FirstName" is "Peter" and the "LastName" is "Jackson"?

Answer: b) SELECT \* FROM Persons WHERE FirstName='Peter' AND LastName='Jackson'

12) With SQL, how do you select all the records from a table named "Persons" where the "LastName" is alphabetically between (and including) "Hansen" and "Pettersen"?

Answer: b) SELECT \* FROM Persons WHERE LastName BETWEEN 'Hansen' AND 'Pettersen'

13) Which SQL statement is used to return only different values?

Answer: d) SELECT DISTINCT

14) Which SQL keyword is used to sort the result-set?

Answer: c) ORDER BY

15) With SQL, how can you return all the records from a table named "Persons" sorted descending by "FirstName"?

Answer: b) SELECT \* FROM Persons ORDER BY FirstName DESC

16) With SQL, how can you insert a new record into the "Persons" table?

Answer: a) INSERT INTO Persons VALUES ('Jimmy', 'Jackson')

17) With SQL, how can you insert "Olsen" as the "LastName" in the "Persons" table?

Answer: a) INSERT INTO Persons (LastName) VALUES ('Olsen')

18) How can you change "Hansen" into "Nilsen" in the "LastName" column in the Persons table?

Answer: b) UPDATE Persons SET LastName='Nilsen' WHERE LastName='Hansen'

19) With SQL, how can you delete the records where the "FirstName" is "Peter" in the Persons Table?

Answer: a) DELETE FROM Persons WHERE FirstName = 'Peter'

20) With SQL, how can you return the number of records in the "Persons" table?

Answer: b) SELECT COUNT(\*) FROM Persons

21) Given an employees table as follows: empid name managerid a1 bob NULL b1 jim a1 B2 tom a1 What value will select count(\*) from employees return?

Answer: c) 3

22) The result of a SELECT statement can contain duplicate rows.

Answer: a) True

23) Sometimes the expression "select count(\*)" will return fewer rows than the expression "select count(value)".

Answer: b) False

24) What type of lock will deny users any access to a table?

Answer: c) EXCLUSIVE

25) Which of the following is the correct SQL statement to use to remove rows from a table?

Answer: c) DELETE

26) The only way to join two tables is by using standard, ANSI syntax.

Answer: b) False

27) A NULL value is treated as a blank or 0.

Answer: b) False

28) The left outer join is one type of outer join. Another one is the.

Answer: e) all of the above

1. If you know the structure and properties of data you can:

Answer: D. all of the above

2. An important task when defining metadata is to:

Answer: D. more than one of the above

3. Which of the following is an invalid XML tag?

Answer: B. <stud ID>

4. Which of the following is a valid XML tag?

Answer: D. <DOB>

5. The first tag in an XML document is known as a(n):

Answer: C. root element

6. An XML comment looks like:

Answer: A. <!--Updated 09-26-07-->

7. In database terminology, a set of entities refers to:

Answer: C. table

8. The kind of information stored in a field in a database is described by the:

Answer: C. data type

9. A Project operation will:

Answer: B. return only unique rows and merge duplicate rows

10. The Test in a Select command is used to:

Answer: C. include rows in a new table

11. Databases store data just once:

Answer: A. in order to avoid data redundancy

1. \_\_\_\_\_\_ is information describing other information.

Answer: Metadata

2. XML is \_\_\_\_\_\_, that is, the tags create the structure of the data.

Answer: self-describing

4. XML attributes must be enclosed in \_\_\_\_\_\_.

Answer: quotes

5. A(n) \_\_\_\_\_\_ is a group of related items in an XML document.

Answer: entity

7. \_\_\_\_\_\_ describe the relationships among the different kinds of data.

Answer: Relational databases

8. A(n) \_\_\_\_\_\_ is used to ensure that all entities in a database are unique.

Answer: primary key

9. Data that cannot be decomposed into smaller parts is considered \_\_\_\_\_\_.

Answer: atomic

10. A(n) \_\_\_\_\_\_ is a collection of table definitions that give the name of the table, list of the attributes and their data types and identifies the primary key.

Answer: database

11. A(n) \_\_\_\_\_\_ is a specification using the five operations and join that define a table from other tables.

Answer: query

12. A(n) \_\_\_\_\_\_ between two tables means that there is a corresponding row in one table for every row in the other table.

Answer: one-to-one relationship

The data dictionary is

Answer: different rom an index prodcedure

users usually retrieve information from a database using

Answer: SQL

What is embedded SQL

Answer: SQL statements used in a program written in some other programming language, usually prefixed by some symbols recognixable by preprocessor

relationship attends from student to class is a example of

Answer: many-to-many relationship

AN integrated collection of related data files is call a

Answer: database

What file access method allows the user to directly access records organized sequentially using an index of key fileds

Answer: indexed sequential access method

Adding new data modifyying existing data, and deleting data are the three basic operations of data

Answer: maintenance

WHich of the following keywords is NOt included is most data retrieval statements

Answer: AS

Funcition include

Answer: count, sum, avg

What is the smallest unit of data recognixed by database software

Answer: Field

Data integrity controls may include

Answer: range control, referential integrity, default values

An other name for a synonym is a

Answer: alias

all of the following are basic constructs of E-R modeling EXCEPT

Answer: identifiers

Abase table is a

Answer: table that physically exists in the databsee word key is synonymous with the word

In a multi-user database environment, t

Answer: index

////////////////////////////////////////////////////Vuong/////////////////////////////////////////////////////////////////////

---- CH1\_PROBLEM ---

One application of data warehouses is: A) shipping of information. B) order processing. C) decision support. D) file updating.

Answer: decision support

Older systems that often contain data of poor quality are called \_\_\_\_\_ systems.

Answer: legacy

A database is an organized collection of \_\_\_\_\_ related data.

Answer: logically

Which of the following types of data can be stored in a database?

Answer:All of the above

Data processed in a way that increases a user's knowledge is:

Answer:information.

Data that describe the properties of other data are: A) relationships. B) logical. C) physical. D) None of the above.

Answer:None of the above.

All of the following are properties of metadata except:

Answer:processing logic

One disadvantage of file processing systems is:

Answer:limited data sharing.

Program-data dependence is caused by:

Answer:file descriptors being stored in each application.

Loss of metadata integrity is often a result of:

Answer:unplanned and uncontrolled duplication of data.

Organizations that utilize the file processing approach spend as much as \_\_\_\_\_\_ of their IS development budget on maintenance.

Answer:80 percent

A picture of the high-level entities for an organization and the relationships among ??the entities is called a(n):

Answer:enterprise data model.

Which of the following is a characteristic of an enterprise data model?

Answer:It stresses the integration of data.

Each column in a table represent a(n) \_\_\_\_\_ of an entity.

Answer:attribute

Intracompany communication can be improved through the use of a(n):

Answer:intranet.

A tool that enables analysts to query and analyze databases is

Answer:on-line analytical processing

Which of the following functions does a database application program perform? A) Create data B) Retrieve data C) Delete data D) All of the above.

Answer:All of the above.

Which of the following decisions must be made when developing a personal computer database? A) Buy or make B) Database design C) Who is responsible for data accuracy D) All of the above.

Answer:All of the above.

A relatively small team of people who collaborate on the same project is called a(n):

Answer:workgroup.

A workgroup database is stored on a central device called a(n):

Answer:server

In addition to the decisions regarding a PC database, which of the following questions are important to workgroup databases?

Answer:All of the above.

Which of the following is the most common type of database described in the book?

Answer:Department

Which of the following is an integrated decision support database with content derived from various operational databases?

Answer:Data warehouse

A data warehouse derives its data from

Answer:various operational data sources

An extranet provides

Answer:limited access to company data and information to customers and suppliers

With the database approach, data descriptions are stored in a central location known as a(n):

Answer:repository

Which of the following is NOT an advantage of database systems?

Answer:Redundant data

A user view is:

Answer:a logical description of some portion of the database.

Which organizational function should set database standards? A) Management B) Application development C) Technical services D) None of the above.

Answer:None of the above.

The most common source of database failures in organizations is:

Answer:failure to implement a strong database administration function

A rule that canNOT be violated by database users is called a:

Answer:constraint.

In a file processing environment, descriptions for data and the logic for accessing the data is built into:

Answer:application programs.

Databases may be more expensive to maintain than files because of: A) the need for specialized personnel. B) the complexity of the database environment. C) backup and recovery needs. D) All of the above.

Answer:All of the above.

Which of the following is NOT a cost and/or risk of the database approach?

Answer:Improved responsiveness

The need for consensus on data definitions is an example of which type risk in the database environment?

Answer:Organizational conflict

Which of the following is software that is used to create, maintain, and provide controlled access to databases?

Answer:Database management system

A centralized knowledge base of all data definitions, data relationships, screen and report formats, and other system components is called a(n):

Answer:repository.

CASE is a class of tools that:

Answer:automates the design of databases and application programs.

Languages, menus, and other facilities by which users interact with the database are collectively called a(n):

Answer:user interface.

/////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////

1. choose the false statement about the decomposition into BCNF?

Answer: The decomposition has the dependency preservation property

2.\_\_\_\_\_\_\_\_\_ is the framework under which data exist and SQL operations on data may be executed.

Answer: SQL environment

3. Which of the followings is the extended operator of relational algebra?

Answer: All of the others

4. Which statment is true regarding subqueries?

Answer: All

5. In ODL, if we have a many - one relationship from class C to class D , then\_\_\_\_\_

Answer: in class C, the type of relationship is just D, while the type of the relationship in D is SET

6. which of the following statements is invalid?

Answer: if A->B, B->C hold in relation R, then A->C holds, too

7. Which of the followings is applied in PSM

Answer: ALL

8.which of the followings may be a part of well-formed XML document?

Answer: ALL

9. Suppose the relation SALE(item, customer, quantity, price) with more than billion tuples from the large database. We try to provide a rapid random and sequential access to this table by\_\_\_\_\_\_

Answer: Creating some indices

10.Suppose a relation PROJECT(projectID, projectName, location, department,ProjectLo1(projectID, projectName, department) is an updatable view ass ....

Answer: The query is executed, there is no new tuple on ProjectLo1 and newtuple (200,'ERP 1.0', null,1) on Project

11. Which of the followings is characteristic of UML?

Answer: Classes are sets of objects, with states and behaviors

12. Suppose R(A,B) and S(B,C) are bags. R has to tuples (1,2), (2,3). S has three tuples (1,3), (3,2), (2,1). Evalute the following relational expression:

gA, SUM(C)->SUMC(R\*S), where \* demotes the natural join.

Answer: the result relation has to two tuple (1,1) and (2,2)

13. Which of the following statement is belong to DML?

Answer: GRANT

14. Suppose the relation Project(number, name, department, location).Evaluate the folloing statement: SLECT distinct p1.location f FROM project p1, project p2

Answer: the query can be executed and teturn all those location where there are more than one projects

15. Suppose a relation PROJECT(projectID, projectName, location, department,ProjectLo1(projectID, projectName, department) is an updatable view ass...\_ DELETE FROM ProjectLo1 Where department=1;

Answer: the query is executed, it delate from Project all those tuples, whose value on component department is 1, and value on component location is 1, too

16.Suppose the following statement:

CREAT TABLE EMPLOYEE(

SSN INT PRIMARY KEY,

FULLNAME NVARCHAR(100),

GENDER CHAR(1) DEFAULT 'UNDEFINED',

AGE INT DEFAULT '18',

CHECK ((GENDER ='F' AND AGE < 55) OR ( GENDER = 'M' AND AGE <60))

Answer: this statement is executed successfully, new table named as EMPLOYEE is created

17. the responsibility of database management system is\_\_\_

Answer: ALL

18.wich of following statements is allowed in SQLserver 2005?

Answer: CREATE TABLE EMPLOYEE( ssn INT PRIMARY KEY, fullname NVARCHAR(50), sex CHAR(1) DEAULT 'UNKNOW', department INT DEFAULT '0')

19. which of the followings cannot be used to construct the complex type in XML Schema?

Answer: By using tag

20. Suppose the relation tblEmployee(EmployeeID, Employeename, Salary,

department). Consider the following code in SQL Server 2005:

DECLARE @EmployeeID INT, @EmployeeName NVARCHAR(50),

........

Answer: it's executed successfully, and print out three values for each existing employee in tblEmployee table

21. Suppose R(A,b) and S(B,C) are bags. R has two tuples (1,1), (1,2). S has three tuples (1,2), (2,1) (2,2). Evaluate the following Datalog rule:

H(x) <-

Answer: relation h has no tuples

22. Suppose th ralation WorksOn

Answer: we create a trigger to refuse all modifications violating constraint

23. which of the following Datalod rules is unsafe?

Answer:Q(x,y,z)<- U(x,y)

24.which of the following statements is used to delete all data table EMPLOYEES except its schema?

Answer: DELETE FROM EMPLOYEES

25. which of the followings has the same meaning as attibute-based constraint?

Answer: Entity-based constraint

26. when we define an attribute A as PRIMARY KEY of ralation R, then\_\_\_

Answer: ALL

27. An attribute in \_\_\_\_ are only integers and character strings.

Answer: E/R model

28. how can we convert the subclass structure to relations?

Answer: ALL

/////////////////////////

Suppose a relation Department (DepartmentNo,DepartmentName,ManagerNo) and a relation Employee(EmployeeNo,EmployeeName,DepartmentNo).There are two reference: DepartmentNo of Employee references to DepartmentNo of Department, and ManagerNo of Department references to EmployeeNo of Employee. Which of following action may violate these two constraints?

answer: Insert a new department//Delete an exit department//Insert a new employee//Delete an exist employee

A named set of SQL statements that are considered when a fata modification occurs are called\_\_\_\_\_\_\_\_\_\_\_

Answer: Constraints

Suppose a relation R(A,B,C) where all attributes are numeric and we'd like to create a modifying view. Which of followings is valid?

answer:CREATE VIEW RA AS SELECT A FROM R WHERE B=5 AND C=2;

Suppose an updatable view ResearchDepartment is associated into Department relation. Choose a right answer

answer: An update on ResearchDepartment is translated into Department//An update on Department is translated into ResearchDepartment//Drop Department effects on ReserchDepartment

Suppose two relation R(A,B,C) and S(D,E) where all atributes are numeric. We create a materialized view T as follow:

CREATE MATERIALIZED VIEW T AS SELECT A FROM R, S WHERE B=D; Which of followings effects on T materialized view?

answer: Delete a tuple from S// insert a tuple to R

Choose a right statement(s)

answer: An index is a data structure used to speed access to tuples of a relation// An index makes update operations become more complex

Indexes are created in most RDBMS to \_\_\_\_\_\_\_\_\_\_

answer: Provide rapid random and sequential access to base-table data

Which of following parameters must be defined in order to established an JDBC connetion?

answer: All of the others

The SQL standerd library called\_\_\_\_\_\_\_\_\_\_

anwer: SQL/CLI

What dose the application tier do?

answer: Execution the business logic of the organization operating the database// Turning data from the database into a response to the request that it receives from the webserves

Choose the right statement

answer: Sessions last as long as the connection that created it // Each session has a current catalog and a current schem a within that catalog

Which of privileges is needed to execute the following statement?

INSERT INTO Studio(name)

SELECT DISTINCT studioName

FROM Movies

WHERE studioName NOT IN (SELECT name FORM Studio);

answer: All of the others

Suppose that Picard is granted as followed:

GRANT SELECT, UPDATE(title, year) ON Movies TO Picard;

Which of followings can Picard do?

answer: SELECT \*FROM Movies WHERE year>=ALL(SELECT year FROM Movies WHERE title LIKE '%Die hard%');// UPDATE TABLE Movies SET title='Die hard'WHERE title='Die hard';

Suppose two relations Movies(title,year,length) and Stars(name,address(city,street),birthdate,starMovie({\*Movies})).What does the starMovies({\*Movies}) mean?

answer: A starMovies is an attribute of Star, whose type is a set of references to tuples of schema named Movies

The keyword WITH CUBE is used in \_\_\_\_\_\_\_\_\_\_ clause

answer: WHERE

With well formed XML document we \_\_\_\_\_\_\_\_\_\_\_

answer: Create a semistructured database// Use whatever tag that we wishes

Which of the followings is invalid (that is this document is not well formed)?

answer: None of the others

We can construct a complex type in several ways \_\_\_\_\_\_\_\_\_\_

answer: By using <xs:sequence > tag// Byusing <xs: choice > tag//By using < xs:all> tag

The responsibility of Database management system is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Answer: a. Support the storage of very large amounts of data /// b. Give users the ability to query the data /// c. Allow users to create new databases and specify their schemas

Choose a incorrect statement: a. Database is a collection of data that is managed by a DBMS b. Database is created and maintained by DBMS c. Database is a collection of information that exists over a long period of time d. None of the others

Answer: None of the others

Which of following is never used as data model?

Answer: None of the others

Data model is a notation for describing data or information. The description consists of \_\_\_\_\_\_\_

Answer: a. Structure of the data /// b. Operations on the data /// c. Constraints on the data

When we define an attribute A as UNIQUE KEY of the relation R, then \_\_\_\_\_\_\_\_\_\_

Answer: c. The A attribute is considered as primary key of the relation R /// d. Tuple can have null value on the A component /// e. There are not two tuples that have the same values on the A component.

Two relation R and S are type compatible if \_\_\_\_\_\_\_\_\_

Answer: a. They have the same number of attributes /// c. The domain of corresponding attributes must be compatible

A two-dimesion table of data is called a \_\_\_\_\_\_\_\_\_\_\_

Answer: Relation

Which of the following are properties of relations?

Answer: All of the others

A constraint between two attribute sets in a relation is called \_\_\_\_\_\_

Answer: Functional dependency

Given a relation R(A, B, C, D) with functional dependencies A -> B, C -> D. Find one key of R.

Answer: a. {A, C}

Given a relation R(A, B, C, D) with functional dependencies A -> C, C -> D, AD -> B. Which functional dependency violates BCNF condition?

Answer: d. C -> D

Given a relation R(A, B, C, D). Which of following is trivial?

Answer: a. AB -> A /// b. AB -> A

Given a relation R(A, B, C, D) with functional dependencies A -> B, C -> D, D -> B. Compute {C}+

Answer: a. {B,C,D}

The number of entity sets that participate in a relationship is called the \_\_\_\_\_\_\_\_

Answer: a. Degree

A relationship between the instances of a single entity set is called \_\_\_\_\_\_\_\_\_

Answer: a. Binary

Every department has one special employee as manager, and every employee may or may not be a manger of department on which he is a member. This relationship is \_\_\_\_\_\_\_\_\_

Answer: b. One to many

Which of following Datalog rules is unsafe?

Answer: a. Q(x,y)<-R(x) AND S(z) AND NOT T(x,y,z) /// b. Q(x,y)<- R(X) AND S(z) AND NOT T(x,y,z)

Suppose a relation R(A,B) and S(B,C) are bags. R has 2 tuples (1,3), (2,4) and S has 3 tuples (1,2), (1,2) and (4,5). The theta join … S has \_\_\_\_\_\_ typles

Answer: d. 4

Suppose a relation R(A,B,C) as a bag, and a relation S = ………….. as a bag, too. R has 4 tuples (1,2,2), (1,3,2), (1,3,2), and (1,2,3). S has \_\_\_\_\_\_\_\_\_\_\_\_\_ tuples

Answer: a. 1

Consider the Datalog rule P(x,y) <- Q(x,z) AND R(y,z) AND NOT Q(x,y). Q has two tuples (1,2), (1,3). R has two tuples (3,2), (2,2). What is about P?

Answer: d. P has no tuple

Suppose a relation R(A,B) has 5 tuples (1,2), (1,3), (3,2), (3,4), (4,2). A result of …, AVG(B) -> AVG(R) is \_\_\_\_\_\_

Answer: b. A relation has 3 tuples (1,2,5), (3,3), (4,1)

In ODL, if we have a many-many relationship between classes C and D, then \_\_\_\_\_\_\_\_\_

Answer: a. In class C, the type of the relationship is SET<D>, and in class D the type of SET<C>

Any Create command maybe reserved by using a \_\_\_\_\_\_\_\_ command

Answer: c. Drop

The first in series of steps to follow when creating a table is to \_\_\_\_\_\_\_\_\_\_\_

Answer: a. Identify each attribute and its characteristics

What does the following statement do? Delete from Customer\_T where state=’HI’

Answer: a. Deletes all records from Customer\_T where the state is equal to HI

Indexes are created in most RDBMSs to \_\_\_\_\_\_\_\_\_\_\_\_

Answer: a. Provide rapid random and sequential access to base-table data.

What results will be produced by the following SQL query? Select sum(standard\_price) as total\_price From product\_v Where product\_type=’Wood’

Answer: a. The total price of all products that are type wood

Suppose a relation R(A,B,C) and a primary key constraint on an A attribute. Which of the followings may violate this constraint?

Answer: c. Update an exist tuple on A component /// d. Insert a new tuple to the relation R

Suppose a relation R(A,B,C,D) and a constraint says that in every tuple of this relation a value on D component must be equal to the total of values on the components. How can we implement this constraint?

Answer: d. We create a tuple-based CHECK constraint

Suppose a relation Department(DepartmentNo, DepartmentName, ManagerNo) and a relation Employee(EmployeeNo, EmployeeName, DepartmentNo). There are two references: DepartmentNo of Employee references to DepartmentNo of Department, and ManagerNo of Department references to EmployeeNo of Employee. Which of following action may violate these two constraints?

Answer: a. Insert a new department /// c. Delete an exist department /// d. Insert a new employee /// f. Delete an exist employee

/////////////////////

1. A database is an organized collection of \_\_\_\_\_ related data.

A) logically

B) physically

C) not

D) badly

Answer: logically

2. Each column in a table represent a(n) \_\_\_\_\_ of an entity.

A) description

B) attribute

C) byte

D) logical element

Answer: attribute

3. A user view is:

A) what a user sees when he or she looks out the window.

B) a table or set of tables.

C) a logical description of some portion of the database.

D) a procedure stored on the server.

Answer: a logical description of some portion of the database.

4. A rule that canNOT be violated by database users is called a:

A) password.

B) constraint.

C) program.

D) view.

Answer: constraint

5. Which of the following is software that is used to create, maintain, and provide controlled access to databases?

A) Network operating system

B) User view

C) Database management system

D) Attribute

Answer: Database management system

6. Organizing the database in computer disk storage is done in the \_\_\_\_\_ phase.

A) logical design

B) physical design

C) analysis

D) implementation

Answer: physical design

7. \_\_\_\_\_ concentrate on determining the requirements for the database component of an

information system.

A) Database analysts

B) Systems analysts

C) Programmers

D) All of the above

Answer: Database analysts

8. The definition of the database that provides all the specifications to the specific database management system is contained in a(n):

A) conceptual schema.

B) data definition specification.

C) physical schema.

D) database technical system.

Answer: physical schema

9. Customers, cars, and parts are examples of :

A) entities.

B) attributes.

C) cardinals.

D) relationships.

Answer: entities

10. Which of the following is a generic entity type that has a relationship with one or more subtypes?

A) Megatype

B) Supertype

C) Subgroup

D) Class

Answer: Supertype

11. The property by which subtype entities possess the values of all attributes of a supertype is called:

A) hierarchy reception.

B) class management.

C). attribute inheritance

D) generalization

Answer: attribute inheritance

12. Subtypes should be used when:

A). there are attributes that apply to some, but not all instances of an entity type

B) supertypes relate to objects outside the business.

C) the instances of a subtype do not participate in a relationship that is unique to that

subtype.

D) None of the above.

Answer: there are attributes that apply to some, but not all instances of an entity type

13. The process of defining one or more subtypes of a supertype and forming relationships is called:

A). specialization

B) generalization.

C) creating discord.

D) selecting classes.

Answer: specialization

14. An attribute (or attributes) that uniquely identifies each row in a relation is called a:

A) column.

B) foreign field.

C). primary key

D) duplicate key.

Answer: primary key

15. An attribute in a relation of a database that serves as the primary key of another relation in the same database is called a:

A) link attribute.

B) link key.

C). foreign key

D) foreign attribute.

Answer: foreign key

16. A primary key that consists of more than one attribute is called a:

A) foreign key.

B) composite key.

C) multivalued key.

D) cardinal key.

Answer: composite key

17. Which of the following are properties of relations?

A) Each attribute has a unique name.

B) No two rows in a relation are identical.

C) There are no multivalued attributes in a relation.

D) All of the above

Answer: All of the above

18. \_\_\_\_\_ is a set of commands used to update and query a database.

A) DML

B) DDL

C) DCL

D) DPL

Answer: DML

19. The first in a series of steps to follow when creating a table is to:

A) identify columns that must be unique.

B) identify each attribute and its characteristics.

C) create an index.

D) identify columns that must be null.

Answer: identify each attribute and its characteristics.

20. In an SQL statement, which of the following parts states the conditions for row selection?

A) Select

B) From

C) Where

D) Group By

Answer: Where

A primary key whose value is unique across all relations is called a(n):

A) global primary key.

B) inter-table primary key.

C) enterprise key.

D) foreign global key.

Answer: global primary key

A rule that states that each foreign key value must match a primary key value in the other relation is called the:

A) referential integrity constraint.

B) key match rule.

C) entity key group rule.

D) foreign/primary match rule.

Answer: referential integrity constraint.

4. In the SQL language, the \_\_\_\_\_\_\_\_\_\_ statement is used to make table definitions.

A) create session

B) create table

C) create index

D) select

Answer: create table

6. From figure tb4-7, which of the following facts can be derived?

A) A student is advised by a faculty member who teaches his or her section of a course.

B) A student is taught by the faculty assigned to the sections for which the student is registered.

C) A faculty member is scheduled to teach sections of courses that only have students with the appropriate prerequisites.

D) A faculty member can teach a course that he or she is not qualified to teach.

Answer: A student is advised by a faculty member who teaches his or her section of a course.

7. In figure tb4-7, a faculty can be created once the faculty member is qualified to teach at least one course. This is an example of a(n):

A) executive assertion.

B) controlling assertion.

C) enabler assertion.

D) All of the above.

Answer: executive assertion.

4. A derivation is usually:

A) a mathematical or logical inference involving literals and facts.

B) not directly related to the data being modeled.

C) a direct indication of the static nature of data.

D) very difficult to interpret.

Answer: a direct indication of the static nature of data.

2. The \_\_\_\_\_\_\_\_\_ rule specifies that each entity instance of the supertype must be a member of some subtype in the relationship.

A) semi-specialization

B) total specialization

C) partial specialization

D) total convergence

Answer: total specialization

14. The total quiz points for a student for an entire semester is a(n) \_\_\_\_\_ attribute.

A) derived

B) mixed

C) stored

D) addressed

Answer: mixed

1. A database is an organized collection of \_\_\_\_\_ related data.

A) logically

B) physically

C) not

D) badly

Answer: logically

2. Which of the following types of data can be stored in a database?

A) Voice

B) Letters

C) Numbers

D) All of the above.

Answer: All of the above.

3. Data processed in a way that increases a user's knowledge is:

A) text.

B) graphics

C) information.

D) hyperlink.

Answer: information.

4. Data that describe the properties of other data are:

A) relationships.

B) logical.

C) physical.

D) None of the above.

Answer: None of the above.

5. Which of the following is a characteristic of an enterprise data model?

A) It stresses the integration of data.

B) It duplicates data.

C) It creates physical relationships.

D) It reduces storage.

Answer: It creates physical relationships.

6. Each column in a table represents a(n) \_\_\_\_\_ of an entity.

A) description

B) attribute

C) byte

D) logical element

Answer: attribute

7. Intracompany communication can be improved through the use of a(n):

A) telephone.

B) fax machine.

C) intranet.

D) extranet.

Answer: intranet.

8. A tool that enables analysts to query and analyze databases is:

A) cross-line deployment analysis.

B) analytical transaction processing.

C) on-line analytical processing.

D) query processing.

Answer: on-line analytical processing.

9. Which of the following functions does a database application program perform?

A) Create data

B) Retrieve data

C) Delete data

D) All of the above.

Answer: All of the above.

10. Which of the following decisions must be made when developing a personal computer database?

A) Buy or make

B) Database design

C) Who is responsible for data accuracy

D) All of the above.

Answer: All of the above.

11. A relatively small team of people who collaborate on the same project is called a(n):

A) server group.

B) workgroup.

C) data collaborative.

D) typical arrangement.

Answer: workgroup

12. A workgroup database is stored on a central device called a(n):

A) client.

B) server.

C) remote PC.

D) network.

Answer: server

1. Database development begins with \_\_\_\_\_, which establishes the range and general contents of organizational databases.

A) database design

B) cross-functional analysis

C) departmental data modeling

D) enterprise data modeling

Answer: enterprise data modeling

2. Which of the following is NOT a component of an information system's architecture?

A) Data

B) Hardware

C) Networks

D) Reasons for events and rules

Answer: Hardware

3. Which of the following is a data-oriented methodology used to create information systems?

A) Data modeling

B) Information engineering

C) Information architecture

D) Systems analysis

Answer: Data modeling

4. A function-to-data entity matrix can be useful because it can:

A) identify orphans.

B) spot missing entities.

C) prioritize development.

D) All of the above..

Answer: All of the above..

6. The SDLC phase in which functional data specifications and processing rules are created is the \_\_\_\_\_ phase.

A) project identification

B) logical design

C) analysis

D) implementation

Answer: analysis

7. The SDLC phase in which database processing programs are created is the \_\_\_\_\_ phase.

A) project identification

B) logical design

C) analysis

D) implementation

Answer: implementation

8.The SDLC phase in which the detailed conceptual data model is created is the \_\_\_\_\_ phase.

A) project identification

B) logical design

C) analysis

D) implementation

Answer: logical design

9. Transforming the data specifications into basic, or atomic elements following well-established rules is called:

A) implementation.

B) normalization.

C) design.

D) typing and cross-matching.

Answer: normalization.

10. Organizing the database in computer disk storage is done in the \_\_\_\_\_ phase.

A) logical design

B) physical design

C) analysis

D) implementation

Answer: physical design

11. An iterative methodology that rapidly repeats the analysis, design, and implementation phases of the SDLC is called:

A) CASE.

B) CAD.

C) RAD.

D) MST.

Answer: RAD.

12. The detailed, technology independent specification of the overall structure of the database is called the:

A) physical schema.

B) user view.

C) external schema.

D) conceptual schema.

Answer: conceptual schema.

13. A logical description of some portion of the enterprise database is called a:

A) physical schema.

B) user view.

C) external schema.

D) conceptual schema.

Answer: user view.

14. The \_\_\_\_\_\_\_\_\_\_\_\_ performs sophisticated calculations and manages the merging of data from multiple sources across the organization.

A) client tier

B) Web-server tier

C) presentation tier

D) enterprise server tier

Answer: presentation tier

1. Which of the following is NOT a characteristic of a good business rule?

A) Declarative

B) Atomic

C) Inconsistent

D) Expressible

Answer: Inconsistent

2. Which of the following is not a good characteristic of a data name?

A) Relates to business characteristics

B) Readable

C) Repeatable

D) Relates to a technical characteristic of the system

Answer: Repeatable

3. A fact is an association between two or more:

A) words.

B) terms.

C) facts.

D) nuggets.

Answer: terms.

4. The logical representation of an organization's data is called a(n):

A) database model.

B) entity-relationship model.

C) relationship systems design.

D) database entity diagram.

Answer: entity-relationship model.

5. Which of the following conditions should exist if an associative entity is to be created?

A) All the relationships for the participating entities are many-to-many.

B) The new associative entity has independent meaning.

C) The new associative entity participates in independent relationships.

D) All of the above.

Answer: All of the above.

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Answer: All of the above.

/////////////////////////////////

Chapter 5: The Relational Data Model and Relational Database Constraints

(B) 1. What does the strength of the relational approach to data management comes from?

(A) higher adaptability and productivity.

(B) the formal foundation provided by the theory of relations.

(C) better concurrency control. (D) ease of conversion to any new approach.

Answer : the formal foundation provided by the theory of relations.

(A) 2. What mathematical concept is a relation based on?

(A) set (B) vector (C) difference (D) matrix

Answer : (A) set

(C) 3. Who first proposed the relation model?

(A) Peter Chen (B) C. J. Date (C) E. F. Codd (D) None of the above

Answer : (C) E. F. Codd

(D) 4. Which is false?

(A) A relation looks like a table of values.

(B) A relation typically contains a set of rows. (C) In a relation rows are called tuples.

(D) Each row has a row header called an attribute.

Answer : (D) Each row has a row header called an attribute.

(D) 5. In each row a value of a data item (or set of items) that uniquely identifies that row in the table is called \_\_\_\_.

(A) tuple (B) set (C) column (D) attribute

Answer : (D) attribute

(A) 6. The key that is generated by the DBMS is called \_\_\_\_ key.

(A) artificial (B) automatic (C) automic (D) access

Answer : (A) artificial

(C) 7. The attribute \_\_\_\_ is the set of values allowed in an attribute.

(A) schema (B) state (C) domain (D) scope

Answer : (C) domain

(B) 8. A subset of the Cartesian product of the domains of its attributes is relation \_\_\_\_.

(A) schema (B) state (C) domain (D) scope

Answer : (B) state

(D) 9. Which is false?

(A) All values in a tuple are considered atomic.

(B) Each value in a tuple must be from the domain of the attribute for that column.

(C) A special null value is used to represent values that are unknown or inapplicable to certain tuples.

(D) The tuples are considered to be ordered.

Answer : (D) The tuples are considered to be ordered.

(C) 10. Which is not a constraint in the relational model?

(A) Key (B) Entity integrity (C) Value (D) Referential integrity

Answer : (C) Value

(B) 11. Which is not condition a superkey should satisfy?

(A) No two tuples in any valid relation state will have the same value for superkey.

(B) A superkey should be minimal. (C) This condition must hold in any valid relational state.

(D) For any distinct tuples the values of superkey are different.

Answer : (B) A superkey should be minimal.

(A) 12. Which is false? (A) A relation can have only one key.

(B) A key is a minimal superkey. (C) Any key is a superkey.

(D) Any set of attributes that includes a key is a superkey

Answer : (A) A relation can have only one key.

(A) 13. Which is entity integrity?

(A) The primary key cannot have null values.

(B) A relation can have only one key.

(C) If the key values are different, two tuples are different.

(D) Any key is a superkey.

Answer : A) The primary key cannot have null values.

(A) 14. A foreign key is (A) a key that references a primary key in other relation.

(B) a key that cannot be null. (C) a key that uniquely identifies different tuples. (D) a superkey.

Answer : (A) a key that references a primary key in other relation.

(C) 15. Which constraint involves two relations? (A) Key constraint (B) Entity integrity (C) Referential integrity (D) Domain constraint

Answer : C) Referential integrity

(D) 16. Which of the following is the action can be taken in case of integrity violation? (A) Cancel the operation that causes the violation.

(B) Perform the operation but inform the user of the violation.

(C) Trigger additional updates so the violation is corrected. (D) All of the above

Answer : (D) All of the above

(A) 17. Which type of solutions to integrity violation does restrict or reject belong to?

(A) Cancel the operation that causes the violation. (B) Perform the operation but inform the user of the violation.

(C) Trigger additional updates so the violation is corrected. (D) Execute a user-specified error-correction routine.

Answer : (A) Cancel the operation that causes the violation.

(D) 18. Which constraint may insert violate? (A) Domain constraint (B) Key constraint (C) Referential integrity (D) All of the above

Answer : A) Domain constraint (B) Key constraint (C) Referential integrity

(C) 19. Which constraint may delete violate? (A) Domain constraint (B) Key constraint (C) Referential integrity (D) All of the above

Answer : (C) Referential integrity

(D) 20. Which constraint may update violate? (A) Domain constraint (B) Key constraint (C) Referential integrity (D) All of the above

Answer : (A) Domain constraint (B) Key constraint (C) Referential integrity

Chapter 7: Relational Database Design by ER- and EER-to-Relational Mapping

(D) 1. Which is not an approach to map binary 1:1 relationship types in the ER diagram to the relational schema? (A) Foreign Key

(B) Merged relation (C) Cross-reference or relationship relation (D) Functional relation

Answer : (D) Functional relation

(A) 2. Which is the approach to map a M:N relationship type in the ER diagram to the relational schema?

(A) A relationship relation and two foreign keys (B) Merged relation option (C) Set of simple component attributes (D) Functional relation

Answer :(A) A relationship relation and two foreign keys

(C) 3. Which is the approach to map a n-ary relationship type in the ER diagram to the relational schema?

(A) Set of simple component attributes (B) Merged relation option (C) A relationship relation and n foreign keys (D) Functional relation

Answer : (C) A relationship relation and n foreign keys

(B) 4. Which is the approach to map a composite attribute in the ER diagram to the relational schema?

(A) Foreign key (B) Set of simple component attributes (C) A relation and foreign key (D) None of the above

Answer : (B) Set of simple component attributes

(C) 5. Which is the approach to map a multivalued attribute in the ER diagram to the relational schema? (A) Foreign key

(B) Set of simple component attributes (C) A relation and foreign key (D) None of the above

Answer : (C) A relation and foreign key

Chapter 8: SQL-99: Schema Definition, Constraints, and Queries and Views

(B) 1. What does SQL stand for? (A) Standard Query Language (B) Structured Query Language (C) Semantic Query Language (D) Syntax Query Language

Answer : B) Structured Query Language

(D) 2. Which is not a category of SQL? (A) DDL (B) DML (C) DCL (D) DAL

Answer : (D) DAL

(C) 3. Which is not a SQL command? (A) delete (B) insert (C) search (D) update

Answer : (C) search

(D) 4. Which is not a DDL command? (A) alter table (B) create table (C) drop table (D) select table

Answer : (D) select table

(B) 5. Which is not a DML command? (A) delete (B) drop table (C) insert (D) update

Answer : (B) drop table

(A) 6. Which of the following is to use alter a table? (A) DDL (B) DML (C) DCL (D) DAL

Answer : (A) DDL

(B) 7. Which of the following is to use update a table? (A) DDL (B) DML (C) DCL (D) DAL

Answer : (B) DML

(B) 8. Which is a set of commands used to update and query a database? (A) DDL (B) DML (C) DCL (D) DAL

Answer : (B) DML

(B) 9. Which of the following is not a DML command? (A) insert (B) create table (C) delete (D) select

Answer : (B) create table

(C) 10. To delete a table, which SQL command can be used? (A) delete (B) unpack (C) drop (D) truncate

Answer : (C) drop

(C) 11. How many attributes will be shown in the following query? select student\_no, name, department, address, email (A) 3 (B) 4 (C) 5 (D) 6

Answer : (C) 5

(A) 12. In select student\_no, score from the grade\_report table where course\_no = 'CS02208', what is course\_no = 'CS02208'?

(A) A condition (B) A list of attribute names (C) A list of the relation names (D) None of the above

Answer : (A) A condition

(B) 13. What result set will the following query return? select item\_no from order where quantity > 20;

(A) The order\_id of all orders that had more than 20 items.

(B) The item\_no of all orders that had more than 20 items.

(C) The order\_id of all orders that had more than one item.

(D) The item\_no of all orders that had 20 or more items.

Answer : (B) The item\_no of all orders that had more than 20 items.

(D) 14. Which can be used to select the student's number whose score is greater than or equal to 60 from the grade\_report table?

(A) select student\_no from report where score <= 60. (B) select student\_no from report where score > 60

(C) select student\_name from grade\_report where score >= 60. (D) select student\_no from grade\_report where score >= 60

Answer : (D) select student\_no from grade\_report where score >= 60

(A) 15. To eliminate duplicate rows in a query, the \_\_\_\_\_\_\_\_ qualifier is used in the SQL Select command. (A) distinct (B) check (C) alter (D) specific

Answer : A) distinct

(D) 16. The SQL command \_\_\_\_\_\_\_\_ adds one or more new columns to a table. (A) create relationship (B) create view (C) create table (D) alter table

Answer : (D) alter table

(D) 17. Indexes are created in most RDBMSs to: (A) provide a quicker way to store data. (B) decrease the amount of disk space utilized.

(C) increase the cost of implementation. (D) provide rapid random and sequential access to base-table data.

Answer : D) provide rapid random and sequential access to base-table data.

(B) 18. What result set will the following query return? select item\_no, description from item where price >= 100 and price <= 200;

(A) The item\_no for all items costing between 100 and 200 (B) The item\_no and description for all items costing between 100 and 200

(C) The item\_no and description for all items costing less than 100 (D) The item\_no and description for all items costing more than 200

Answer : (B) The item\_no and description for all items costing between 100 and 200

(A) 19. In an SQL statement, which of the following parts states the conditions for row selection? (A) where (B) select (C) from (D) in case

Answer : (A) where

(B) 20. What does the following SQL statement do? delete from customer where city = 'Hsinchu'; (A) Deletes all records from the customer table.

(B) Deletes all records from customer where the city is equal to Hsinchu. (C) Removes the customer table from the database. (D) None of the above

Answer : (B) Deletes all records from customer where the city is equal to Hsinchu.

(B) 21. DDL is typically used during which phases of the development process? (A) Analysis (B) Physical design (C) Implementation (D) All of the above

Answer : Physical design

(A) 22. Which of the following is the wildcard operator in SQL statements? (A) \* (B) <> (C) = (D) &

Answer : (A)

(B) 23. Which can be used to increase the 10% interest rate for all accounts in the account table? (A) update account where interest = 0.1;

(B) update account set interest = 1.1 \* interest; (C) udpate interest \* 1.1 from account (D) None of the above

Answer : (B) update account set interest = 1.1 \* interest;

choose wrong statement

Answer : when a user makes contact to a web server, this user becomes a client of this web serever

in SQL/CLI to deal with database we must do create.. first at all.

Answer : enviroment

choose a wrong statement : to access to database on any server// the SQL opareton that are performaed//the sessions lasts

Answer : none of the other

choose a wrong statement:

Answer : Shared variables are used to transfer information between the database and the host language and they can be declared either in host-language code or SQL language

the actions performed by the........ tier are often referred to as the business logic of the organization operating the database

Answer : application

procedure parameters may be of mode......

Answer : in//inout//out

SQL agent is .......

Answer : an execution of an application program

1.In PSM we define an exeption handler as followed:

DECLARE <where to go next> HANDLER FOR <condition list> <statement>

whith <where to go next> clause cannot be......

Answer : GOTO

Function parameters may be of mode

Answer : IN

choose a wrong statement

Answer : every SQL environment has only one database

After defining a persistent stored modules, we can call it.......

Answer : In generic SQL interface// as a statement of another persistent stored modules//from a host-language program

In PSM we can break out of the loop by using.... statement

Answer : LEAVE;

choose a right statement

Answer : the data model of SQL differs so much from the models of other languages

what doest the application tier do?

Answer : turning data from the database into a response to the request that it receives from the webservers.

by using cursor, we can.... the current tuple.

Answer : Delete//update//read

the Object-relational model is the extension of the relational model with......feature(s)

Answer : indentifiers for tuples//structured tupes for attributes//methods and references

which of the following statements is wrong?

Answer : in object-relational model a tuple is likewise o struct, but it has componenrnts for only the atributes

choose a right answer:

Answer : every one must have an authorizaton// Authorization ID may be geanted//SQL has a special

Suppose a grant statement GRANT SLECT ON employee to publicc.Which of the followings is able to asscess to an Employee relation?

Answer : A relation's owner who created this relation//A DBA authorization ID//A current authorization ID

given two relation Departement (ID, Name)

Answer : privileges for Isert, select on department and select on employee

which of following statements is not allowed?

Answer : revoke insert(a) on movie to namth rerstrict

supporse a user-defined type as followed create type adresstype as(street char(30),city char(30));which of following is a generator method of addresstype

Answer : addresstype();

choose the right answer:

Answer : a Udt can be type of an attribute//the form of udt definition is : create type t as();//a users-defined type(udt) in SQL can be the type of a table

the activity of examination of data for patterns or trends generally involves highly compez queries that use one or more aggregation.These queries are often called...

Answer : OLAP queries

we can turn the result of a query into a data cube by appending..... to a group-by clause.

Answer : one of others

to create a constraint(for example, referential integrity constraint) on a relation, the owner of the schema must have...

Answer : references privilege

which of followings is a characteristic of star schema?

Answer : a fact table has several attributes that present//typically each dimension attribute of the fact table//a star schema consists of the schema for

some things to consider when creating valid XML documents are.......

Answer : we use whatever tags that we wishes// we must have a root element that the entire body of the text// we must begin with a declaration that is XML

which of followings is part of semistructured data's representation

Answer : leaf nodes//root node//interior nodes

which of the following definition is wrong (that is this XML document is not well-formed)

Answer : <Movie title = Star Wars year= 1997></Movie>

Which of the followings is right about attributes on XML documents?

Answer : attribute represents connnections in a semistructured data graph that don't form a tree//XML can have attributes within its open tag//attribute represents a leaf node of memistructured data

which of the following statements is wrong when talking about XML and databases?

Answer : Information in XML is always intended to be stored in database

In valid XML document we

Answer : must delare the Document Type Definition

which of folloing definition is wrong (that is this XML document is not well-formed)

Answer : d

choose a right statement

Answer : the data in the relation data must fit the schema//the data in the semistructured data is self-describing//relational data model starts with schema

to declare one attribute that references to another attribute, we must use... type for referencing attribute.

Answer : IDREFS

which of following statements is right?

Answer : the most common form of complex type in XML Schema is a sequence of elements

suppose the following DTD

Answer : there is one or more departments

using XML Schema we are able to.....

Answer : declare keys and foreign keys//declare either simple or complex types//Create arbitrary restrrictions on the number of occurences of elements

which of following keywords is not permitted in well-formed XML document?

Answer : none of the others

every node must be reachable form...

Answer : root node

Data modeling may be the most important part of the systems development process because:

answer: Data characteristics are important in the design of programs and other systems components

A business rule:

answer: All of the above: Define, Assert, Controls

Business rules should be determined primarily by interviewing executives in the business.

answer: False

The common types of entities are:

answer: All:Strong, Weak, Associative

A property or characteristic of an entity type that is of interest to the organization is called a(n):

answer: attribute

A relationship is an association between attributes.

answer: False

A good data name should be:

answer: readable, unique, and repeatable

A multivalued attribute is an attribute that is common to many entities.

answer: False

A person's name, birthday, and social security number are all examples of:

answer: Attributes

A(n) \_\_\_\_\_ is the relationship between a weak entity type and its owner.

answer: identifying relationship

The \_\_\_\_\_ specifies the number of instances of one entity that can (or must) be associated with each instance of another entity.

answer: cardinality constraint

The degree of a relationship is the number of entity types that participate in a relationship.

answer: True

A ternary relationship is a simultaneous relationship between more than three entity types.

answer: False

Which is NOT a basic construct of an E-R model?

answer: Identifiers

An attribute that can be calculated from related attribute values is called a \_\_\_\_\_attribute

answer: derived

An attribute that uniquely identifies an entity, and consists of a composite attribute is called a(n):

answer: Composite identifier

An entity that associates the instances of one or more entity types and contains attributes specific to the relationships is called a(n):

answer: Associative entity

The number of entity types that participate in a relationship is called the:

answer: Degree

A relationship between the instances of a single entity type is called a \_\_\_\_\_relationship.

answer: Unary

An entity type name should always be a singular noun.

answer: True

A simultaneous relationship among the instances of three entity types is called a \_\_\_\_\_relationship.

answer: ternary

A \_\_\_\_\_ specifies the number of instances of one entity that can be associated with each instance of another entity.

answer: Cardinality constraint

A relationship where the minimum and maximum cardinality are both one is a(n) \_\_\_\_\_ relationship.

answer: Mandatory one

A mutually exclusive relationship is one in which:

answer: An entity instance can participate in only one of several alternative relationships

A student can attend five classes, each with a different professor. Each professor has 30 students. The relationship of students to professors is a \_\_\_\_\_ relationship.

answer: Many-to-many

The total quiz points for a student for an entire semester is a(n) \_\_\_\_\_ attribute.

answer: Derived

A join operation:

answer: causes two disparate tables to be combined...

Data Definition language (DDL) is used to:

answer: declare database schemas

A database is an organized collection of \_\_\_ related data.

answer: logically

The relation data model consists of which component?

answer: All: Data integrity, Data manipulation, Data structure

A rule that CANNOT be violate by database users is called a:

answer: constraint

In the SQL language, the\_\_\_ statement is usedto creat database definitions

answer: create table

Which of the following types of data can be stored in adatabase

answer: All: Voice, letters, numbers

Given a relation R(A,B,C,D) with dependencies A-->C, C->D. Which of the followings doesn't hold in R?

answer: A->C

What is the property that good decomposition must have?

answer: All: Elimination of anomalies, Recoverability of information, Preservation of dependencies

Given a relation R(A,B,C,D) with functional dependencies A->BC, C->D,D->A. Find one key of R

answer: {A}

Functional dependency is a constraint on \_\_\_\_\_\_\_\_\_\_

answer: Two sets of attributes of a relation

One attribute is called prime if \_\_\_\_\_\_\_\_\_\_

answer: It is a member of key

Choose the false statement about the decomposition into BCNF?

answer: The decomposition has the dependency preservation property

Choose a right statement

answer: If X is a key, then X is a super key

The principle strategy to convert subclasses to relations is \_\_\_\_\_\_\_\_\_

answer: all: Follow, Treat, Use

Choose a wrong answer

answer: UML offers multi-way relationships

Choose a right answer

answer: all: the value, Entity set, Relationship

When we say one class has many students, and a student is a member of one class, we mean that the multiplicity of this relationship from class entity set to student entity set is \_\_\_\_\_\_\_\_\_

answer: One - many

An attribute (or attributes) that uniquely identifies each row in a relation is called a/an:

answer: primary key

Choose a wrong statement

answer: E/R model represents both the structure of data and the operations on data

The number of entity types that participate in a relationship is called the :

answer: degree

An attribute of the relation R to which the ? is applied is called

answer: Grouping attribute

To convert a bag to a set, we use \_\_\_\_\_\_\_\_\_ operator

answer: d

Suppose R(A,B,C) is bag, S=sA>B(R). Choose a right answer

answer: S has the same schema as R, and S has less or equal tuples than R has

Suppose a relation R(A,B,C) as a bag, and a relation S=pA,B(d(R)) as a bag, too. R has 4 tuples (1,2,2), (1,3,2), (1,2,2), and (1,2,3). S has\_\_\_\_\_\_\_\_\_\_ tuples

answer: 3

Suppose a relation R(A,B) has 4 tuples (1,2), (2,3), (1,1), (2,4). A result of ?A,SUM(B)?SUM(R) is \_\_\_\_\_\_\_\_\_\_

answer: A relation has 2 tuples (1,3), (2,7)

Suppose a relation R(A,B) and S(B,C) as a bags. R has 2 tuples (1,2),(1,4) and S has 3 tuples (2,3), (4,5) and (4,5). The theta-join R ? \_R.B<S.B S has \_\_\_\_\_\_\_\_\_\_ tuples

answer: 2

Choose one answer.

answer: This operation is valid and the result has three tuples

The result of ((10<NULL) OR TRUE) AND (UNKNOWN OR FALSE) is

answer: UNKNOWN

Which of following is not part of Data Manipulation Language (DML)?

answer: CREATE statement

Suppose a relation R has two attributes A and B. Choose a valid query

answer: SELECT A, B, COUNT(\*) FROM R GROUP BY A, B

Choose the right statement

answer: all: Sub-queries can appear, return a single, return relations

Which of following condition is TRUE

answer: (UNKNOWN OR TRUE) OR (UNKNOWN AND FALSE)

Suppose a relation R has two numeric non-null attributes A, B. Which of the following queries do we use to count the number of tuples in R ?

answer: COUNT(\*) COUNT(A) COUNT(B)

Suppose a relation S has three numeric attributes A, B, and C. Choose a valid query

answer: SELECT A, SUM(\*) FROM S GROUP BY A HAVING COUNT(B)<20

NULL value is \_\_\_\_\_\_\_\_\_\_

answer: all: unknown, inapplicable, withheld

Choose a wrong answer

answer:Every relation has only one index

Choose a right answer

answer: A virtual view is defined by an expression like a query

Given the relation Movies(title, year, length, genre, studioName).Select the right query to create a view with the titles and studio names of all movies that were produced in 1980

answer:CREATE VIEW OldMovies AS SELECT title, studioName FROM Movies where year=1980

When a user makes contact, a \_\_\_\_\_\_\_\_\_\_ response to the request, and the user becomes a client of this \_\_\_\_\_\_\_\_\_\_ process.

answer: webserver, webserver

Function parameters may be of mode \_\_\_\_\_\_\_\_\_\_

answer: IN

Which of the followings is right about well-formed XML documents?

answer: All: involve, have, begin

The DBMS acts as an interface between what two components of an enterprise-class database system?

answer: Database application and the database

Which of the following projects illustrates a database being designed from existing data?

answer: A database using the Production Department's spreadsheets

Which of the following projects illustrates a database being designed as a new systems development project?

answer: A database designed to produce production reports for a new Production Department manufacturing process

Which of the following products was an early implementation of the relational model developed by E.F. Codd of IBM?

answer: DB2

The following are components of a database except \_\_\_\_\_\_\_\_ .

answer: reports

An application where only one user accesses the database at a given time is an example of a(n) \_\_\_\_\_\_\_\_ .

answer: multiuser database application

Which of the following projects illustrates a database being designed as a redesign of an existing database?

answer: A database that will combine two databases currently used by the Production Department

An on-line commercial site such as Amazon.com is an example of a(n) \_\_\_\_\_\_\_\_ .

answer: e-commerce database application

Which of the following products was the first to implement true relational algebra in a PC DBMS?

answer: R:base

SQL stands for \_\_\_\_\_\_\_\_ .

answer: Structured Query Language

Because it contains a description of its own structure, a database is considered to be \_\_\_\_\_\_\_\_ .

answer: self-describing

The following are functions of a DBMS except \_\_\_\_\_\_\_\_ .

answer: creating and processing forms

Helping people keep track of things is the purpose of a(n) \_\_\_\_\_\_\_\_ .

answer: database

Which of the following products implemented the CODASYL DBTG model?

answer: IDMS

An Enterprise Resource Planning application is an example of a(n) \_\_\_\_\_\_\_\_ .

answer: multiuser database application

A DBMS that combines a DBMS and an application generator is \_\_\_\_\_\_\_\_ .

answer: Microsoft's Access

You have run an SQL statement that asked the DBMS to display data in a table named USER\_TABLES. The results include columns of data labeled "TableName," "NumberOfColumns" and "PrimaryKey." You are looking at \_\_\_\_\_\_\_\_ .

answer: metadata

Which of the following is not considered to be a basic element of an enterprise-class database system?

answer: COBOL programs

The DBMS that is most difficult to use is \_\_\_\_\_\_\_\_ .

answer: Oracle Corporation's Oracle

The relational database model was created by E.F. Codd.

answer: True

A database is called "self-describing" because it contains a description of itself

answer: True

In a database, data is stored in spreadsheets which have rows and columns.

answer: False

A database has data and relationships.

answer: True

Databases create information.

answer: True

One of the reasons why OODBMSs have not been widely used for business information systems is that OOP is obsolete.

answer: False

A database administrator designs, constructs, and manages the databases.

answer: True

In an enterprise-class database system, business users interact directly with database applications, which directly access the database data.

answer: False

Applications are programs that interact directly with the database.

answer: False

The purpose of a database is to help people stop using spreadsheets.

answer: False

Microsoft Access is an enterprise-class database product.

answer: False

Structured Query Language (SQL) is an internationally recognized standard language that is understood by all commercial database management system products.

answer: True

The XML family of standards is very important in database processing today.

answer: True

A database has a built-in capability to create, process and administer itself.

answer: False

Enterprise Resource Planning (ERP) is an example of a single user database.

answer: False

Prior to 1970, all data was stored in separate files, which were mostly stored on reels of magnetic tape.

answer: True

A database design may be based on existing data.

answer: True

The DBMS ranked as being the "easiest to use" in the text is Oracle Corporation's Oracle.

answer: False

Database applications are seldom intended for use by a single user.

answer: False

The DBMS ranked as being the "hardest to use" in the text is Microsoft's SQL Server.

answer: False

In an Enterprise-class database system, business users interact directly with database applications that interact with the DBMS, which directly accesses the database data.

answer: True

Suppose R and S are bags, and t is the tuple that appears n-times and m-times in R and S (n=0, m=0).How many time dose t tupe appear in

answer:In {R^S}, t appears (n + m) times, In {R U S}, t appears MIN(n, m) times, In {R \ S}, t appears MAX(0, n - m) times

Arithmetic operators on NULL values will return

answer: a NULL value

Comparisons with NULL values will return

answer: UNKNOWN

Choose the false statement about the decomposition in to BCNF

answer: the relations of the...

\_\_\_is the framework under which data ay exist and SQL operations on data may beexecuted

answer: SQL environment

which of the following is the extended operator of relational algebra?

answer: All: Outerijoins, Grouping, Duplicate

Which statement is true regarding subqueries?

answer: all: The NOT, = ANY, the IN

In ODL, if we have a may- one relationship from class C to class D,then\_\_

answer: Inclass C, the type of the relationship is just D, while the type of the relationship in D is SET

which of the following statement is invalid?

answer:if A->B, B->->C hold in relation R, then A=>Vholds,too

which of the following is applied in PSM

answer:All: Cursors, queries, Subqueries

Which of the followings may be a part of well-formed XML document?

answer: all

sUPPOSE THE REALTION sale(ITEM, CUSTOMER, quantity, price) with more than billion tupeles from the large database. We try to providea rapid random and sequential access to this table by\_\_\_

answer: Creating some indicies

Which of the followings is characteristic of UML?

answer: Classes are sets of objects, with satate and behaviors

Suppose R(A,B) and S(B,C) are bags. R has two tuples (1,2), (2,30. S hasthree tuples (1,3), (3,2), (2,1). Evalue the following relational expression: gA,SUM(C)-> SUMC(R\*S), where \* denotes the natural join

answer: the result relation has two tuples (1,1) and (2,2)

Which of the followings is belong to DML?

answer: GRANT

The responsibility of Database management system is\_\_

answer: All: Allowusers, Support, Give

Which of the following Datalog rules is unsafe?

answer: Q(x,y,z)<- U(x,y) AND T(x,y) AND NOT T(x,z)

Which of the following statement is used to delete all data from table EMPLOYEES except it's schema?

answer: DELETE FROM EMPLOYEES

Which of the followings has the same meaning as attribute-based constraint?

answer: Entity-based constraint

When we define an attribute A as PRIMARY KEY of relation R, then\_\_

answer: All: tuple must be not, there are no two, no more primary key...

An attributesin\_\_\_are only integers and character strings

answer: ODL

how can we convert the subclass structure to relations?

answer: Contruct a single relation for whole hierarchy ofenitity sets

Choose a right answer

answer: A virtual view is defined by an expression like a query

The most useful index on a relation is an index on its key. This is because:

answer: Queries in which a value for the key is ...

Which of the following is not a benefit of using views?

answer: None of the others

Suppose an updatable view FoxMovies is associated with Movies relation. Choose a right answer

answer: All: An update on Movies is translated into FoxMovies va ngc lai,Drop FoxMovies does not affect Movies

A clustering index is \_\_\_\_\_\_

answer:An index that is defined on non-key field(s) and there can be more than one record corresponding to a value of the indexing field

Choose the invalid statement

answer: Views allow each user to have his or her own view of the database, which creates data redundancy

Suppose a relation R(A,B,C) where all attributes are numeric. Choose a valid query to create an updatable view

answer: None of the others

Which of the fllowing statement is true about User Defined Type?

answer: All: An UDT, the 0-0, many relations

Which of the following is true about SQL session?

answer: the sessions lasts as long as the conection that created it

Which of the followings is false about weak entity set?

answer: THe key for a weak

What do we say a bout views?

answer: All: droping : a base table, a view, views dont exist

WHich of the followings is right about attributes on XML documents?

answer: DTD is a grammar

Which of the followings evolves to information integration?

answer: None of other

Which of the followings was the first ever used for data model?

answer: File system

An A attribute is called the key of relation R if\_\_\_

answer: All: it functionally, Its closure, there are no

Where cannot we use PSM procedures

answer: None of the others

View is\_\_\_\_

answer: None of the others

\_\_\_manage the interations with the user

answer: the webserver-tier processes

Which of the followings is false about E/R model?

answer: attributes are very simply types...

Which of the following statement is true?

answer: A recursion in Datalog can be expressed in relational algebra

Which of the followings doesn't take the key's condition 'no two tuples aree on all attributes f key'?

answer: Foregn key

Suppose relation R(A,B,C,D), and set of FD's S={A->B, B->D,AD->C}. find one key of R

answer: {A}

Which of the followings is not true about XML documents?

answer: XML data is presented in one or more document

Suppose relation R(A,B,C,D,E) and se of FDs A->D, AD->C, C->BE. Compute {A}+

answer: {A,B,C,D,E}

database users can connect to database management system as

answer: all: Database designer, Database adinistrator, Database end-user

The another name of referential integrity constraint is \_\_\_\_\_\_\_\_

answer: Foreign key constraint

To declare a constraint that an employee is only male or female, we use \_\_\_\_

answer: Attribute-based Check constraint

Which of the followings is part of the SQL trigger statement?

answer: All: triggering event, Condition of the trigger, Action

Choose a right answer

answer: On default, any modification violating the referential integrity constraint is rejected

Choosea right statement

answer: The data model of SQL differ so much from the models of other languages

By using cursor, we can \_\_\_\_\_ the current tuple

answer: All: Delete, Update, Read

The actions performed by the \_\_\_\_\_ tier are often referred to as the business logic of the organization operating the database

answer: Application

Choose a wrong statement

answer: Every SQL environment has only one database

After defining a persistent stored modules, we can call it\_\_\_\_

answer: All: From a host,AS a statement, In generic SQL interface

Function parameters may be of mode \_\_\_\_\_\_\_

answer: In

Procedure parameters may be of mode \_\_\_\_\_\_

answer: All: Out, In, Inout

1. Choose the false statement about the decomposition into BCNF?

Answer:The relations of the decomposition are all in BCNF

2.\_\_ is the framework under which data may exist and SQL operations on data may be executed

Answer:SQL environment

3. Which of the followings is the extended operator of relational algebra?

Answer:All of the others

4. Which statement is true regarding subqueries?

Answer:All of the others

5. In ODL, if we have a many-one relationship from class C to class D, then \_\_

Answer:... just D,... SET

6. Which of the follwing statements is invalid?

Answer:If A->B, B-->>C,A->C holds, too

7. Which of the following is applied in PSM

Answer:All of the others

8.Which of the followings may be a part of well-formed XML document?

Answer:All of the others

9. Suppose the realtion SALE(item, customer, quantity, price) with more than billion tuples from the large database. We try to provide a rapid random and sequential access to this table by \_\_\_

Answer:Creating some indices

10. Suppose a realtion PROJECT(projectID,projectName,location,department, ProjectLo1(projectID, projectName,department) is an updatable view associated to PROJECT where location=1. Evaluate the following statement: INSERT INTO ProjectLo1(projectID,projectName,department) VALUES(200.'ERP1.0',1);

Answer:...is no new tuple on ProjectLo1, and newtuple(200.'ERP 1.0',null, 1) on Project

11. Which of the followings is characteristic of UML?

Answer:Classes are sets of objects, with states and behaviors

12. SUppose R(A,B) and S(B,C) are bags. R has two tuples (1,2),(2,3). S has three tuples (1,3),(3,2),(2,1).Evaluate the following realtional expression: gA,SUM(C)->SUMC(R\*S), where \* denotes the natural join.

Answer:two tuple (1,1) and (2,2)

13. Which of the following statement is belong to DML?

Answer:GRANT

14.Suppose the relation Project(number,name,department,location).Evaluate the following statement: SELECT distinct p1.location FROM Project p1, Project p2 WHERE p1.location = p2.location AND p1.number<p2.number

Answer:..there are more than one projects

15. Suppose a realtion PROJECT(projectID,projectName,location,department, ProjectLo1(projectID, projectName,department) is an updatable view associated to PROJECT where location=1. Evaluate the following statement: DELETE FROM ProjectLo1 WHERE department=1;

Answer:..whose value on component department is 1, and value on component location is 1,too

16.Suppose the following statement: CREAT TABLE EMPLOYEE( SSN INT PRIMARY KEY, FULLNAME NVARCHAR(100), GENDER CHAR(1) DEFAULT ' UNDEFINED', AGE INT DEFAULT '18', CHECK ((GENDER = 'F' AND AGE<55) OR (GENDER='M' AND AGE <60))); Evaluate this statement in SQLSever 2005

Answer:..successfully, newtable name as EMPLOYEE is created

17.The responsibility of Database management system is \_\_

Answer:all of the others

18. Which of following statements is allowed in SQLServer 2005

Answer:all of the others

19. which of the followings cannot be used to construct the complex type in XML Schema

Answer:By using tag

20. Suppose the relation tblEmployee(EmployeeID, EmployeeName,Salary,department).Consider the following code in SQL Sever 2005:DECLARE @EmployeeID INT,@EmployeeName NVARCHAR(50),@SALARY DECIMAL(10,0); DECLARE myCursor CURSOR FOR Select EmployeeID, EmployeeName, Salary FROM tblEMPLOYEE WHERE department =1; OPEN myCursor; FETCH NEXT FROM MyCursor INTO @EmployeeID, @EmployeeName, @Salary;IF @@FETCH\_STATUS<>0 PRINT '<<NONE>>'; WHILE @@FETCH\_STATUS=0 BEGIN PRINT @EmployeeID + ''@EmployeeName +' '+@Salary; FETCH NEXT FROM myCursor INTo @EmployeeID,@EmployeeName,@Salary;END CLOSE myCursor; DEALLOCATE myCursor; What happens if we execute this code?

Answer:..and prints out three values for each existing employee in tblEmployee table

21. Suppose R(A,B) and S(B,C) are bags. R has two tuples (1,1),(1,2).S has three tuples (1,2),(2,1),(2,2). Evaluate the following Datalog rule: H(x) <- R(x,y) AND S(y,z) AND NOT R(x,z)

Answer:relation H has no tuples

22. Suppose the relation WorksOn(project, employee, hoursperweek).Consider the following constraint: Nobody can't work more than 40 hours a week(for all his/her projects).How can we implement this constraint in SQLServer 2005

Answer:..a trigger to refuse all modifications violating this constraint

23. Which of the following Datalog rules is unsafe

Answer:Q(x,y,z)<-U(x,y) AND T(x,y) AND NOT T(x,z)

24. Suppose two relations Project (number, name, location, department) and Department(number, name).Evaluate the following SQL statement: SELECT D.number, D.name, P.number, P.name FROM Department D LEFT OUTER JOIN Project P ON (D.number = P.department);

Answer:..department irrecpective of whether they control projects or not

25. Which of the following expression represents the below constraint on relation R(A:int,B:int,C:int): For every tuple in R, the value on A must be greater than the value on B or value on C must be less than the sum of value on A and value on B

Answer:sA->B OR C < A + B( R ) =

26. which of the following statement is used to delete all data from table EMPLOYEES except its schema

Answer:DELETE FROM EMPLOYEES

27. which of the followings has the same meaning as attribute-based constraint?

Ventity-based constraint

28. When we define an attribute A as PRIMARY KEY of relation R, then \_\_\_\_\_\_\_\_\_\_\_\_

Answer:all of the others

29. An attributes in\_\_\_\_\_\_\_\_\_\_\_\_ are only integers and character strings

Answer:ODL

30. How can we convert the subclass structures to relations

Answer:contruct a single relation for whole hierarchy of entity sets

31. Which of the following statements is true about the User Defined Type?

Answer:all of the others

32. Which of the followings is true about SQL session?

Answer:The session lasts as long as the connection that created it

33. Which of the followings is false about weak entity set?

Answer:The key for a weak entity set includes the keys for all supporting entity sets

34. What do we say about views?

Answer:all of the others

35. Given two relation tblEmployee(EmployeeID,EmployeeName,Salary,Department) and tblDepartment(DepartmentID, DepartmentName,Manager,AssignData).Suppose that Scott is granted as followed: GRANT SELECT, UPDATE ON tblEmployee TO Scott; GRANT SELECT(DepartmentID, Manager) ON tblDepartment to Scott;Which of the following statements is available for Scott?

Answer:all of the others

36. Which of the followings is right about attributes on XML documents?

Answer:DTD is a grammar-like set of rules to ensure that a XML document must be well-formed

37. Suppose the relation Employee(SSN, Fullname,Salary, SupervisorSSN).Consider the following condition: NOT EXISTS(SELECT\*FROM EMPLOYEE WHERE SupervisorSSN NOT IN (SELECT SSN FROM EMPLOYEE)).Which of the following activities may violate this condition?

Answer:all of the others

38. Which of the followings evolves to information integration?

Answer:None of the others

39. Which of the followings was the first ever used for data model

Answer:file System

40. Suppose the relation SALE(item, cusomter, quantity, price) with more than billion tuples from the large database. We try to provide a rapid random and sequential access to this table by\_\_\_\_\_\_\_\_\_

Answer:..make the viewProjectNo1 unusable

41. Suppose the relation WorksOn(project, employee, hoursperweek).Consider the following query:Listing all those projects with at least 10 workers.The condition 'at least 10 worker' must be\_\_\_\_\_\_\_\_

Answer:appeared in HAVING clause as condition con classified groups

42. An A attribute is called the key of relation R if\_\_\_\_\_\_\_\_\_\_\_\_

Answer:all of the others

43. Where cannot we use PSM procedures?

Answer:None of the others

44.View is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Answer:None of the others

45. \_\_\_\_\_\_\_manage the interations with the user

Answer:The webserver-tier processes

46. Suppose the relation R(A,B,C,D) and set of FDs A->B,B->C,C->D. Suppose the projection R1=PA,C,D®

Answer:A->C, A->D

47. Suppose two relations tblEmployee(EmployeeID, EmployeeName, Salary, memberOf(\*tblDepartment)) and tblDepartment(DepartmentID,DepartmentName,managerIs(tblEmployee)).What doeas the meberOf(tblDepartment) mean?

Answer:..is a single tuple of relation schema named tblDepartment

48. Suppose two predefined types AuthorType and BookType in UDT. We have defined two relations named Authors and Books based on these types.To present the statement 'Which authors have written which books we define the table Writes.Which of the followings is valid definition for Writes table?

Answer:W author REF(Type),book REF(BookType));

49. Which of the followings is false about E/R model?

Answer:.. very simple types, e.g integers or character strings

50. Which of the following statements is true?

Answer:A recursion in Datalog can be expressed in relational algebra

51. Suppose the relation Employee(SSN:char(12),Supervisor:char(12),Num\_Of\_Supervised:int),where Supervisor indicates that who supervises the current employee, and Num\_Of\_Supervised indicates that how many employees are supervised by this employee.Which of the followings is not allowed in SQL Server 2005

Answer:None of the others

52. Suppose the relation Employee(SSN, Fullname,Salary, SupervisorSSN).Consider the following query: SELECT\*FROM Employee WHERE NOT EXISTS(SELECT\*FROM Employee WHERE SSN=SupervisorSSN)

Answer:.. successfully, and return all those employees who don't supervise any other employee

53. Given two relation tblEmployee(EmployeeID,EmployeeName,Salary,Department).Suppose we connected to SQL with Scott authorization ID.Which of privileges must Scott have to execute the following statement: DELETE FROM tblEmployee WHERE EmployeeID IN(SELECT EmployeeID FROM tblEmployee WHERE department IS NULL)

Answer:DELETE on tblEmployee

54. which of the followings doesn't take the key's condition 'no two tuples agree on all attributes of key'?

Answer:foreign key

55. Suppose we have two elements Department and Project. The Department element has a key named depKey on the attribute DepartmentNo. The Project has an attribute named DepartmentNo, and we'd like to define it as foreign key.Which of followings can be use?

Answer:<xs:keyref name="depRef" refers="depKey"><xs:selector:xpath="Project"/><xs:field xpath="DepartmentN 0"/></xs:keyref>

56. suppose relation R(A,B,C,D,E) and set of FD's S={A->B,B->D,AD->C}.Find on the key of R

Answer:{A}

57. Suppose the relation Employee(SSN,Name,Salary,Department).Which of the followings returns all those employees with salary exceeds salary of all employees from department 1

Answer:all of the others

58. Which of the followings is not true about XML documents

Answer:XML data is presented in one or more documents

59. Suppose relation R(A,B,C,D,E) and set of FD's A->D,AD->C,C->BE.Compute {A}+

Answer:{A,D,C,B,E}

60. Database users can connect to database management system as\_\_\_\_\_\_\_\_\_\_\_\_

Answer:all of the others

61. Any Create command maybe reserved by using a \_\_\_ command

Answer:Commit

62. Suppose a relation R(A,B,C) where all attributes are numeric and we'd like to create a modifying view. Which of followings is valid?

Answer:All of the others

63. The keyword WITH CUBE is used in \_\_\_clause

Answer:GROUP BY

64.Suppose two relations R(A,B) and S(C,D),where A,B,C,D,E are interger attributes.which of following queries is invalid?

Answer:INSERT INTO R(A,B)SELECT \* FROM S

65.Which of the following is the responsibility od DTD?

Answer.All of the others.

66.Which of the following is TRUE about semi-structured data?

Answer.It is self-decribing

67.Which of following keywords can be used in well-formed XML document?

Answer.All of the others

68.WHich of following is charateristic of object relational data model?

Answer.All of the others.

69.WHich of following statement is not DML?

Answer.CREATE

70.Choose the false statement about the decomposition into 3NF?

Answer.the decomposition has the dependency preservation proverty.

71.WHich of following is a disadvantages of using index?

Answer.An index makes update operations becomes more complex.

72.WHich of following can appear in PSM procedure definition?

Answer.all of the others.

73.WHich of following statement can be used in PSM procedure definition?

Answer.all of the others.

74.WHich of following relational operations are considerably more efficient if we use the bag model?

Answer.Difference.

75.Choose a right answer

Answer.An authorization ID may be granted privileges fromm others or may give its.

76.Which of the following statements is TRUE?

Answer.Key is the super key.

77.Choose the incorrect statement.

Answer.Classes are sets of objects,with state and behaviors.

78.WHich of following is not the extended operator of relational algebrab?

Answer.Natural join operators.

79.Which of the following is TRUE about E/R model?

Answer.all of the others.

80.Which of the following is TRUE?

Answer.all of the others.

81.The ER Diagram uses three principle element types:

Answer.Entity sets,Attributes and Constraints.

82.Consider a relation with schema R(A,B,C,D) and FD's BC.Which of the following is the key of R?

Answer.BC.

83.In a tree structure,a/an\_\_\_\_\_\_has no arc out.

Answer.leaf node

84.\_\_\_\_\_\_\_connect web-clients to the database system,usually over the Internet or possibly a local connection.

Answer.Web server proccesses.

85.Data Definition language(DDL) is used to...

Answer.all of the others.

86.Which of the following has the same meaning as domain-based constraint?

Answer.Attributes-based constraint

87.The result of(UNKNOWN OR TRUE) is.

Answer.TRUE

88.Suppose an updatable view ParamountMovies is associated with Movies relations.

Answer.An update on ParamoutMovies is translated into Movies.

89.In PSM we can break out the loop by using\_\_\_\_\_\_\_ statement.

Answer.LEAVE

90.In SQL language,the command/statement that let you change the schema of a relation is:

Answer.Alter

91.Each web server process can invoke one or more\_\_\_\_\_\_\_ to handle the request.

Answer.Database server proccesses.

92.Select the right statement.

Answer.All of the others.

93.The keyword WITH ROLLUP is used in \_\_\_\_\_\_\_\_ clause

Answer.WHERE

94.Suppose a relation R has two not null numeric attributes A,B.Which of the following queries do we use to count the number of tuples in R?

Answer. All of the others

95.A atrribute A is called the key of relation R if\_\_\_\_\_\_\_

Answer.All of the others

96.In referntial integrity constraint,the referenced attribute(s) must be \_\_\_\_\_or\_\_\_\_\_

Answer.Primary key,Unique key.

97.When we define an attribute A as PRIMARY KEY of relations R,then\_\_\_\_\_\_\_

Answer.There are no two tuples that have the same as values of the A component.

98.Which of the following statement is valid?

Answer.All of the others.

99.Which of the following is the principle element type of ER diagram?

Answer.All of the others

100.Which of the following logical expressions is FALSE?

Answer.None of the others.

101.WHich of the following is definition of tables in SQL?

Answer.Tables are the kind of relation that exists int the database....

102.Which of the follwing is TRUE about weak entity set?

Answer.All of the others

103.Which of the following is not applied for the union of two relations which are bags?

Answer.We eliminate duplicated tuples

104.Which of the following is NOT a standard aggresion operator?

Answer.GROUP

105.Which of the following action doesn't violate this constraint?

Answer.Delete an exist employee.

The DBMS acts as an interface between what two components of an enterprise-class database system?

Answer Database application and the database

Which of the following projects illustrates a database being designed from existing data?

Answer A database using the Production Department's spreadsheets

Which of the following projects illustrates a database being designed as a new systems development project?

Answer A database designed to produce production reports for a new Production Department manufacturing process

Which of the following products was an early implementation of the relational model developed by E.F. Codd of IBM?

Answer DB2

The following are components of a database except

Answer reports

An application where only one user accesses the database at a given time is an example of a(n)

Answer single-user database application

Which of the following projects illustrates a database being designed as a redesign of an existing database?

Answer A database that will combine two databases currently used by the Production Department

An on-line commercial site such as Amazon.com is an example of a(n)

Answer e-commerce database application

Which of the following products was the first to implement true relational algebra in a PC DBMS?

Answer R:base

SQL stands for

Answer Structured Query Language

Because it contains a description of its own structure, a database is considered to be

Answer self-describing

The following are functions of a DBMS except

Answer creating and processing forms

Helping people keep track of things is the purpose of a(n)

Answer database

Which of the following products implemented the CODASYL DBTG model?

Answer IDMS

An Enterprise Resource Planning application is an example of a(n)

Answer multiuser database application

A DBMS that combines a DBMS and an application generator is

Answer Microsoft's Access

Which of the following is not considered to be a basic element of an enterprise-class database system?

Answer COBOL programs

The DBMS that is most difficult to use is

Answer Oracle Corporation's Oracle

1. The responsibility of Database management system is

Answer: Support the storage/Give users the ability/Allow users to create

2. Choose a incorrect statement

Answer: None of the others(DB is a collection/created/a collection)

3. Which of following is never used as data model?

Answer: None of the others(Relational/Graph-based/Hierarchical/Tree-based)

4. Data model is a notation for describing data or information. The description consists of

Answer: Structure of data/Operations on the data/Constrains on the data

5. When we define an attribute A as UNIQUE KEY of the relation R, then

Answer: The A attribute is considered/Tuple can have null/There are not 2 tuples

6. Two relation R and S are type compatible if

Answer: They have the same number of attributes/The domain of corresponding

7. A two-dimesion table of data is called a

Answer: Relation

8. Which of the following are properties of relations?

Answer: All of the others(Each attribute/There are no mutivalued/No two rows

9. A constraint between two attribute sets in a relation is called

Answer: Functional dependency

10. Given a relation R(A,B,C,D) with functional dependencies A->B, C->D. Find one key of R

Answer: {A,C}

11. Given a relation R(A,B,C,D) with functional dependencies A->C, C->D, AD->B. Which functional dependency violates BCNF condition?

Answer: C->D

12. Given a relation R(A,B,C,D). Which of following is trivial?

Answer: AB -> A/AB-->A

13. Given a relation R(A,B,C,D) with functional dependencies A->B, C->D, D->B. Compute {C}+

Answer: {B,C,D}

14. The number of entity sets that participate in a relationship is called the

Answer: Degree

15. A relationship between the instances of a single entity set is called

Answer: Binary

16. Every department has one special employee as manager, and every employee may or may not be a manger of department on which he is a member. This relationship is

Answer: One to many

Question 1

Marks: 1

Which statement is true?

Choose one answer.

a. XML documents must have a root tag

X b. All of the others

c. XML tags are case sensitive

d. XML elements must be properly nested

Answer: All of the others(XML documents/tags/elements)

Question 2

Marks: 1

In a typical OLAP application, there is a central relation or collection of data, called \_\_\_\_\_\_

Choose one answer.

x a. the fact table

b. All of the others

c. the dimension table

d. the star table

Answer: the fact table

Question 3

Marks: 1

There is a way of describing XML data, how?

Choose one answer.

x a. XML uses a DTD to describe the data

b. All of the others

c. XML uses a description node to describe data

d. XML uses XSL to describe data

Answer: XML uses a DTD to describe the data

Question 4

Marks: 1

Given relation R(A,B) that has 2 tuples (1, 2) and (3, 4); relation S(B, C, D) has 3 tuples (2, 5, 6), (4, 7, 8) and (9, 10, 11). The natural join of R and S has \_\_\_\_\_\_

Choose one answer.

x a. 2 tuples (1, 2, 5, 6) and (3, 4, 7, 8)

b. 1 tuple (1, 2, 10, 11)

c. 2 tuples (1, 2, 2, 5) and (3, 4, 4, 7)

d. 2 tuples (1, 2, 3, 4) and (5, 6, 7, 8)

Answer: 2 tuples (1, 2, 5, 6) and (3, 4, 7, 8)

Question 5

Marks: 1

Suppose a schema of relation SupplierProduct is SupplierProduct(No, SupplierID, ProductType) where No is a identifier, SupplierID is an identifer of each supplier, and ProducType is a type of product which this supplier provides. What will be returned when the following SQL statement is executed?

SELECT SupplierID FROM SupplierProduct

GROUP BY SupplierID HAVING count (\*) IN

(SELECT count (distinct ProductType) FROM SupplierProduct);

Choose one answer.

a. A listing of supplierIDs, which provide all product types

b. A listing of supplierIDs, which provide some product types

x c. A listing of supplierIDs, which provide a specified number of

product types

d. No result, the query is invalid

Answer: A listing of supplierIDs, which provide a specified number of product types

Question 6

Marks: 1

Which SQL statement is used to return only different values?

Choose one answer.

x a. SELECT DISTINCT

b. SELECT DIFFERENT

c. SELECT UNIQUE

d. SELECT DIFFERENT ALL

Answer: SELECT DISTINCT

Question 7

Marks: 1

We can turn the result of a query into a data cube by appending \_\_\_\_\_\_ to a group-by clause

Choose one answer.

a. WITH SUM

x b. WITH CUBE

c. All of the others

d. WITH AGGREGATE

Answer: WITH CUBE

Question 8

Marks: 1

Choose a well-formed XML document

Choose one answer.

a. <?xml version="1.0"?>

<to>Tove</to><from>Jani</from><heading>Reminder</heading><body>Don't

forget me this weekend!</body>

x b. <?xml version="1.0"?>

<envelope><to>Tove</to><from>Jani</from><heading>Reminder</heading><body>Don't

forget me this weekend</body></envelope>

c. <?xml version="1.0"?>

<to>Tove</to><from>Jani</from><heading>Reminder</heading><body>Don't

forget me this weekend!</body></end>

d. None of the others

Answer: <?xml version="1.0"?><envelope><to>Tove</to><from>Jani</from><heading>Reminder</heading><body>Don't forget me this weekend</body></envelope>

Question 9

Marks: 1

The multiplicity of a binary relationship could be \_\_\_\_\_

Choose one answer.

a. many–to-many

b. one-to-many

x c. All of the others

d. one-to-one

Answer: All of the others(many-to-many/one-to-many/one-to-one)

Question 10

Marks: 1

Choose the wrong statement

Choose one answer.

x a. None of the others

b. The database tier executes queries that are requested from the

application tier

c. There can be many processes in the database tier and the processes

can be distributed over many machines or all be together on one

d. Since creating connections to database takes significant time, we

normally keep a large number of connections open and allow application

processes to share the connections

Answer: None of the others(The database/There can be many/Since creating connections)

Question 11--------------------------------------------------------------------------------------------------

Marks: 1

Choose the wrong statement:

Choose one answer.

x a. The subclasses of a class in UML can be disjoint partial

b. The subclasses of a class in UML can be disjoint overlapping

c. The subclasses of a class in UML can be disjoint complete

d. The subclasses of a class in UML can be overlapping partial

Answer: The subclasses of a class in UML can be disjoint partial

Question 12 ---------------------------------

Marks: 1

Select the right statement

Choose one answer.

x a. Referential integrity constraint is also called foreign key constraint

b. A foreign key constraint can be added or deleted using the 'Alter

Table' command

x c. All of the others

d. A foreign key in one table points to a PRIMARY KEY in another table

Answer: All of the others (Referential integrity/A foreign key constraint/A foreign key in one table)

Question 13

Marks: 1

Select the right statement

Choose one answer.

a. Instead-of trigger is used to update the database tables associated

with the view instead of updating the view directly.

b. When a trigger is defined on a view, we can use INSTEAD OF in place

of BEFORE or AFTER.

x c. All of the others

d. When an event awakens the instead-of trigger, the action of the

trigger is done instead of the event itself

Answer: All of the others(Instead-of-trigger/When a trigger is defined/When an event awakens)

Question 14

Marks: 1

The database language that is used to query and modify the database is called \_\_\_\_\_\_\_

Choose one answer.

a. All of the others

b. Data Control Language

c. Data Definition Language

x d. Data Manipulation Language

Answer: Data Manipulation Language

Question 15 ---------

Marks: 1

Select the right statement

Choose one answer.

x a. Assertion is a boolean-valued SQL expression that must be true at

all times

b. Assertion is not part of the database schema

c. Once created, an assertion cannot be dropped unless you delete the

database

d. Assertion condition cannot be involved in many relations.

Answer: Assertion is a boolean-valued SQL expression that must be true at all times

Question 16

Marks: 1

When a CHECK constraint associate to many tuples on one or more relations, we must create

Choose one answer.

a. Attribute-based CHECK constraint

b. Tuple-based CHECK constraint

x c. Assertion

d. All of the others

e. Domain-based CHECK constraint

Answer: Assertion

Question 17

Marks: 1

Choose the wrong statement

Choose one answer.

a. The existence of an index on an attribute may speed up the execution

of certain queries

b. The most useful index on a relation is an index on its key.

c. None of the others

x d. An index makes update operations on a relation faster

Answer: An index makes update operations on a relation faster

Question 18 ------------------------------------------

Marks: 1

Consider the Datalog rule H(x,y) <- S(x, y) AND x >= y AND y < 3. Relation S(x, y) has 3 tuples (2, 3), (5, 3), and (3, 3). What is about H?

Choose one answer.

a. H has 2 tuples (3, 3) and (5, 3)

b. H has a tuple (3, 3)

x c. None of the others

d. H has a tuple (5, 3)

Answer: None of the others

Question 20

Marks: 1

Choose the right statement

Choose one answer.

a. Transaction is a collection of one or more operations on the

database that must be executed atomically. That is, either all

operations are performed or none of them is done.

b. In SQL, each statement is a transaction by itself.

x c. All of the others

d. SQL allows us to group several statements into a single transaction.

Answer: All of the others(Transaction is a collection/In SQL, each statement/SQL allows us to group)

Question 21--------------------------------------------------------------------------------

Marks: 1

Suppose a relation PROJECT(projectID, projectName, location, department, ProjectLo1(projectID, projectName, department) is an updatable view associated to PROJECT where location=1. Evaluate the following statement: INSERT INTO ProjectLo1 (projectID, projectName, department) VALUES (200,'ERP1.0',1);

Choose one answer.

a. The query is executed, there is new tuple (200,'ERP1.0',1) on

ProjectLo1, and new tuple (200,'ERP1.0',1,1) on Project

b. The query is executed, there is no new tuple on ProjectLo1, and new

tuple (200,'ERP1.0',null,1) on Project

c. The query is executed, there is new tuple (200,'ERP1.0',1) on

ProjectLo1, and new tuple (200,'ERP1.0',null,1) on Project

x d. The query is executed but nothing happened on Project neither on

ProjectLo1

Answer: The query is executed but nothing happened on Project neither on ProjectLo1

Question 22

Marks: 1

Suppose the theta join R3 :=R1?R2, where C is a condition that refers to attributes of R1 and R2. Which of the followings is correct?

Choose one answer.

a. Each tuple t1 of R1 connect with one tuple t2 of R2

x b. Each tuple t1 of R1 connect with some those tuple t2 of R2 that

satisfy C

c. Each tuple t1 of R1 connect with all those tuple t2 of R2 that

satifsy C

d. None of the others

Answer: Each tuple t1 of R1 connect with some those tuple t2 of R2 that satisfy C

Question 23

Marks: 1

Which of the following statement is NOT true:

Choose one answer.

a. Problems such as redundancy that occur when we try to cram too much

into a single relation are called anomalies

b. If X is a key, then X is a super key

x c. A relation can have only one key

d. A set of one or more attributes {A1, A2, ..., An} is a key for a

relation R if these attributes functionally determine all other

attributes of the relation R and these attributes must be minimal

Answer: A relation can have only one key

Question 24

Marks: 1

Which of the following is not a valid loop construct in PSM?

Choose one answer.

a. REPEAT UNTIL END REPEAT;

b. LOOP END LOOP;

c. WHILE DO END WHILE;

x d. None of the others

Answer: None of the others(REPEAT UNTIL END REPEAT/LOOP END LOOP/WHILE DO END WHILE)

Question 25

Marks: 1

Select the right statement

Choose one answer.

x a. All of the others

b. A view is a virtual table

c. Not all views are updatable

d. With updatable views, the modification is translated into an

equivalent modification on a base table

Answer: All of the others(A view is a virtual table/Not all views are updatable/With updatable views)

Question 26--------------------------------------------------------------------- tran saction

Marks: 1

Which of the following isolation levels forbids the reading of dirty data?

Choose one answer.

a. SET TRANSACTION ISOLATION LEVEL READ UNCOMMITED;

b. SET TRANSACTION ISOLATION LEVEL SERIALIZABLE;

c. SET TRANSACTION ISOLATION LEVEL READ COMMITTED;

x d. SET TRANSACTION ISOLATION LEVEL REPEATABLE READ;

Answer: SET TRANSACTION ISOLATION LEVEL REPEATABLE READ;

Question 29

Marks: 1

Which of the following is the correct definition of a procedure:

Choose one answer.

a. CREATE PROCEDURE () RETURNS ;

b. All of the others

----c. CREATE PROCEDURE () ;

d. CREATE PROCEDURE () RETURNS RETURN ;

Answer: CREATE PROCEDURE ();

Question 30

Marks: 1

Which statement is true?

Choose one answer.

a. All XML documents must have a DTD

b. All of the others

x c. All XML elements must be properly closed

d. All XML elements must be lower case

Answer: All XML elements must be properly closed

Question 31

Marks: 1

Select the wrong statement

Choose one answer.

a. None of the others

b. An index can be created in a table to find data more quickly and

efficiently

x c. A table can have only one index

d. The key for index can be any attribute or set of attributes, and

need not be the key of the relation

Answer: A table can have only one index

Question 32

Marks: 1

Consider a relation with schema R(A, B, C, D) and the set of FDs: BC -> D, D -> A, A -> B. Compute {AC}+

Choose one answer.

a. {A, C, D}

b. {A, B, C}

c. {A, C}

x d. {A, B, C, D}

Answer: {A, B, C, D}

Question 33

Marks: 1

Consider a relation with schema R(A, B, C) and the set of FDs: A -> B, A -> C, B -> A, B -> C, C -> A, C -> B, AB -> C, BC -> A, AC -> B, A -> BC, B -> AC, C -> AB. Find a minimal basis for relation R.

Choose one answer.

x a. A -> B, B -> C, C -> A

b. All of the others

c. AC -> B, BC -> A

d. AC -> B, BC -> A, A -> BC

Answer: A -> B, B -> C, C -> A

Question 34

Marks: 1

Choose the wrong statement

Choose one answer.

a. A user defined type (UDT) can be the type of a table

b. None of the others

c. A user defined type can be the type of an attribute belonging to

some table

x d. A user defined type (UDT) cannot be the type of a table

Answer: A user defined type (UDT) cannot be the type of a table

Question 35

Marks: 1

A type of an attribute that can be used as pointer to a user-defined type (UDT) is called \_\_\_\_\_\_

Choose one answer.

a. pointer types

b. None of the others

x c. reference types

d. linking types

Answer: reference types

Question 36

Marks: 1

Which of the following is not a valid privilege in SQL?

Choose one answer.

x a. PROCEDURE

b. TRIGGER

c. EXECUTE

d. REFERENCES

Answer: PROCEDURE

Question 37

Marks: 1

In the three-tier architecture, the function of the application tier is to \_\_\_\_\_\_\_

Choose one answer.

x a. Execute the business logic of the organization operating the database

b. All of the others

c. Perform queries and modifications at the request of the application

servers

d. Manage the interactions with the user

Answer: Execute the business logic of the organization operating the database

Question 38

Marks: 1

Select the right statement

Choose one answer.

x a. Updating views are allowed if query involves a single base relation

and contains a candidate key of base relation

b. Updating views are allowed if query involves aggregation or grouping

operations

c. Updating views are allowed if query involves multiple base relations.

d. All of the others

Answer: Updating views are allowed if query involves a single base relation and contains a candidate key of base relation

Question 39

Marks: 1

Given table MovieStar defined as follows: CREATE TABLE MovieStar( name CHAR(30) PRIMARY KEY, address VARCHAR(256), gender CHAR(1) CHECK (gender IN ('M','F')), birthdate DATE NOT NULL )

Which of the following query is not valid?

Choose one answer.

x a. INSERT INTO MovieStar VALUES ('Tom Cruz', '123 Little Rd, LA city',

'M', NULL);

b. INSERT INTO MovieStar(name, gender, birthday) VALUES ('Tom Cruz',

'M', '1973-09-12 00:00:00');

c. INSERT INTO MovieStar VALUES ('Tom Cruz', NULL, 'M', '1973-09-12

00:00:00');

d. INSERT INTO MovieStar(name, address, gender, birthday) VALUES ('Tom

Cruz', NULL, 'M', '1973-09-12 00:00:00');

Answer: INSERT INTO MovieStar VALUES ('Tom Cruz', '123 Little Rd, LA city', 'M', NULL);

Question 40

Marks: 1

Suppose the relation tblEmployee(EmployeeID, EmployeeName, Salary, department). Consider the following code in SQL Server 2005:

DECLARE @EmployeeID INT, @EmployeeName NVARCHAR(50), @SALARY DECIMAL(10,0);

DECLARE myCursor CURSOR FOR Select EmployeeID, EmployeeName, Salary FROM

tblEMPLOYEE WHERE department=1;

OPEN myCursor;

FETCH NEXT FROM myCursor INTO @EmployeeID,@EmployeeName,@Salary;

IF @@FETCH\_STATUS <> 0

PRINT '<<NONE>>';

WHILE @@FETCH\_STATUS = 0

BEGIN

PRINT @EmployeeID+' '+@EmployeeName+' <mailto:'+@EmployeeName+'>

'+@Salary <mailto:'+@Salary>;

FETCH NEXT FROM myCursor INTO @EmployeeID,@EmployeeName,@Salary;

END

CLOSE myCursor;

DEALLOCATE myCursor;

What happens if we execute this code?

Choose one answer.

x a. It's executed successfully, and prints out three values for each

existing employee in tblEmployee table

b. It's executed successfully, but nothing is displayed in output

c. It's executed successfully, and the output is the simple text '<>'

d. It can not be executed successfully.

Answer: It's executed successfully, and prints out three values for each existing employee in tblEmployee table

Question 41 ---------------------------

Marks: 1

Which of the following constructs can be used in PSM?

Choose at least one answer.

x a. LOOP ... END LOOP;

b. WHILE .... DO ...

c. DO ... WHILE ....

d. FOR ... DO ...

Answer: LOOP ... END LOOP;

Question 43

Marks: 1

List all the movies that have length less than 100 and were produced by

a studio name other than ‘Fox’. Select the right answer.

Choose one answer.

a. Selection NOT(length=100) AND NOT(studioName=‘Fox’)(Movies)

x b. None of the others

c. Selection length<100 AND studioName <>‘Fox’(Movies)

d. Selection NOT(length=100 OR studioName=‘Fox’)(Movies)

Answer: None of the others (Section NOT/length/NOT)

Question 44

Marks: 1

Which of the following is considered anomaly?

Choose one answer.

x a. All of the others

b. information may be changed in one tuple, but may not be changed in

other tuple(s)

c. if a set of values becomes empty, we may lose other information as a

side effect

d. information may be repeated unnecessarily in several tuples

Answer: All of the others(information may/if a set of values/information may be repeated)

Question 45

Marks: 1

Suppose the relation Employee(SSN, Fullname, Salary, SupervisorSSN).

Consider the following condition:

NOT EXISTS (SELECT \* FROM EMPLOYEE WHERE SupervisorSSN NOT IN (SELECT

SSN FROM EMPLOYEE)).

Which of the following activities may violate this condition?

Choose one answer.

a. Insert new employee

b. Delete existing emplyee

x c. All of the others

d. Update existing employee

Answer: All of the others(Insert new/Delete existing/Update existing)

Question 47

Marks: 1

Choose the right answer:

Choose one answer.

x a. Duplicate-elimination operator is used to convert a bag to a set

b. Duplicate-elimination operator is used to add duplicate tuple to a

relation

c. None of the others

d. Duplicate-elimination operator is used to convert a set to a bag

Answer: Duplicate-elimination operator is used to convert a bag to a set

Question 48

Marks: 1

Suppose relation R1 has n1 attributes and t1 tuples, relation R2 has n2 attributes and t2 tuples, then the Cartesian Product R3 = R1 x R2 has \_\_\_\_\_\_\_\_

Choose one answer.

a. n1\*n2 attributes, and t1\*t2 tuples

b. n1\*n2 attributes, and t1+t2 tuples

c. n1+n2 attributes, and t1\*t2 tuples

d. n1+n2 attributes, and t1+t2 tuples

Answer: n1+n2 attributes, and t1\*t2 tuples

Question 49

Marks: 1

Suppose relation R(A,B,C,D) with FD's A?B, B?D, CD?A. This relation is decomposed into 3 relations S1={A,D}, S2={A,C}, S3={B,C,D}. Is this decomposition lossless join?

Choose one answer.

a. Yes

x b. No

Answer: No

Question 50

Marks: 1

Which is not a correct name for an XML element?

Choose one answer.

a. &ltNote>

b. &lt1dollar>

c. All of the others

d. &lthav1>

Answer: All of the others(&ItNode>/&It1dollar>/&Ithav1>

Question 53

Marks: 1

The degree of a relationship is \_\_\_\_\_\_

Choose one answer.

a. The number of binary relationships

b. The number of attributes in a relation

c. The number of entities involved with the relationship

d. The number of tuples in a relation

Answer: The number of entities involved with the relationship

The responsibility of Database management system is

answer: Support;Give;Allow create

Choose a incorrect statement

answer: None of

Which of following is never used as data model?

answer: None of

Data model is a notation for describing data or information. The description consists of

answer: Structure Operations Constraints

When we define an attribute A as UNIQUE KEY of the relation R, then

answer: The A, Tuple, There are not two

Two relation R and S are type compatible if

answer: same number, domain

A two-dimesion table of data is called a

answer: Relation

Which of the following are properties of relations?

answer: all

A constraint between two attribute sets in a relation is called

answer: Functional dependency

Given a relation R(A,B,C,D). Which of following is trivial?

answer: AB —> A, AB->A, AB->CD

Given a relation R(A,B,C,D) with functional dependencies A->B, C->D, D->B. Compute {C}+

answer: BCD

The number of entity sets that participate in a relationship is called the

answer: Unary

Every department has one special employee as manager, and every employee

answer: One to one

To convert a many - one relationship Rfrom entity set E to entity set F, we

must

answer: F to E, E

Which of following Datalog rules is unsafe?

answer: 2 NOT T(x,y,z)

Suppose a relation R(A,B) and S(B,C) are bags. R has 2 tuples (1,3), (2,4) and

answer: 4

Consider the Datalog rule P(x,y) <- Q(x,z) AND R(y,z) AND NOT Q(x,y).

answer: P has to tuple

Suppose a relation R(A,B) has 5 tuples (1,2), (1,3), (3,2), (3,4), (4,2). A result

answer: (1,2.5),(3,3),(4,1)

Given a relation R(A,B,C,D) with functional dependencies A->B, C->D. Find

one key of R.

answer: A,C

Given a relation R(A,B,C,D) with functional dependencies A->C, C->D, AD->B

answer: CD

Which functional dependency violates BCNF condition?

answer: CD

Suppose a relation Department (DepartmentNo, DepartmentName, ManagerNo) and a relation Employee(EmployeeNo, EmployeeName, DepartmentNo). There are two references: DepartmentNo of Employee references to DepartmentNo of Department, and ManagerNo of Department references to EmployeeNo of Employee. Which of following action may violate these two constraints?

answer: Insert anew department,Delete an exist department ,Insert anew employee,Delete an exist employee

Which of the following queries is invalid?

answer: CREATE TABLE Works\_On (EmployeeNo INT PRIMARY KEY,ProjectNo INT PRIMARY KEY,DayOfWorks INT),CREATE TABLE Works\_On (EmployeeNo INT,ProjectNo INT,DayOfWorks INT,CONSTRAINT PRIMARY KEY (EmployeeNo. ProjectNo))

A named set of SQL statements that are considered when a data modification "S™ are called----------------

answer: Constraints

Suppose a relation R(A,B,C) where all attributes are numeric and we'd like to create a modifying view. Which of followings is valid?

answer: All of the others

Suppose an updatable view ResearchDepartment is associated to Department relation. Choose a right answer

answer: An update on ResearchDepartment, An update on Department, Drop Department effects on ResearchDepartment

Suppose two relation R(A,B,C) and S(D,E) where all attributes are numeric. We create a materialized view T as follow:CREATE MATERIALIZED VIEW T AS SELECT A FROM R, S WHERE B=D; Which of followings effects on T materialized view?

answer: Delete...from S, Insert...to R

Indexes are created in most RDBMS to

answer: Provide rapid random and sequential acces to base-table data

Which of following parameters must be defind in order to established an JDBC connection?

answer: Back-end, Database name, Username and Password

The SQL standard library called

answer: SQL/CLI

Which does the application tier do?

answer: Executing the business..., Turing data from...

Which of privileges is needed to execute the following statement?INSERT INTO Studio(name)SELECT DISTINCT studioNameFROM MoviesWHERE studioName NOT IN (SELECT name FROM Studio)

answer: Insert...to Studio, Select...on Movies, Select...on Studio

Suppose that Picard is granted as followed:GRANT SELECT, UPDATE(title, year) ON Movies TO Picard; Which of followings can Picard do?

answer: SELECT \*, UPDATE TABLE Movies SET

Suppose two relations Movies(title,year,length) and Stars(name,address (city,street), birthdate, starMovies({\*Movies})). What does the starMovies({\*Movies}) mean?

answer: A starMovies is an attribute of Star, whose type is a set of references to tuples of schema named Movies

The keyword WITH CUBE is used in\_\_\_\_clause

answer: GROUP BY

With well formed XML document we

answer: Create a semistructured..., Use whatever tag that we wishes

With valid XML document we

answer: Use predefine schema, Involve Document Type Definition

Which of the following is invalid (that is this document is not well formed)?

answer: none of the others

We can construct a complex type in several ways

answer: <xs:sequence>, <xs:choice>, <xs:all>

In ODL, if we have a many-many relationship between classes C and D, then

Answer : In class C, the type of the relationship is SET<D >, and in class D the type os SET< C >

Any Create command maybe reserved by using a Z command

Answer: Commit

The first in series of steps to follow when creating a table is to

Answer: Identify each attribute and its characteristics

What does the following statement do? Marks: 1 Delete from Customer\_T where state='HI';

Answer: Deletes all records from Customer\_T where the state is equal to HI

Indexes are created in most RDBMSs to

Answer: Provide rapid random and sequential access to base-table data

What results will be produced by the following SQL query? Select sum(standard\_price) as total\_price From product\_v Where product\_type='Wood';

Answer: The total price of all products that are of type Wood

Suppose a relation R(A,B,C) and a primary key constraint on an A attnbute Which of followings may violate this constraint?

Answer: Update an exist tuple on A component, Inse1t a new tuple to the relation R

Suppose a relation R(A,B,C,D) and a constraint says that in every tuple of this relation a value on D component must be equal to the total ofvalues on other components. How can we implement this constraint?

Answer: We create a tuple-based CHECK constraint

A set of attributes that contains a key is called a superkey

answer:

Every superkey satisfies the first condition of a key:

answer: it functionally determines all other attributes of the relation

If K is a key, L is a super key, then:

answer: K la tap hop con cua L

To find a functional dependencies of projection, we:

answer: Follow from S, and Involve only attributes of R1

Two notations

answer: (1) Closing the empty set....(2) If we have already know that the closure

Boyce-Codd Normal Form (BCNF) is a simple condition that guarantee anomalies are not exists

answer:

Three problems of decomposition:

answer: Elimination of Anomalies be decomposition,Recoverability of Information,Preservation of Dependencies

Principle components

answer: Entity sets,Attributes,Relationships

The relation for a given relationship R has attributes

answer: For each entity set involved, If the relationship has own attributes,If one entity set is involved several times

UML is

answer: designed to model software in an object-oriented style, but has been adapted as a database modeling language

In most ERDs, if you have a 1:1 relationship, there is probably something wrong with your design. It should be very rare to have 1:1's. Normally this would indicate that your two entities with the one-to-one relationship should be combined into one single entity

answer:False

Consider the law, that holds for set relations (S intersect T) - R = S intersect (T - R).The above law still hold for bag relations?

answer:True

Supose relation R(A,B,C) has the tuples:Using bag projection and intersection, compute 'I'€A,B(R) a © T s(A,B)('I'€B,c(R)). Note that the renaming is only to give the two projections the same schema. Which of the following is true about the tuples that appear in the result?

answer:(3,3) appears once in the result

Consider the law, that holds for set relations:(S intersect T) - R = S intersect (T - R).The above law still hold for bag relations?

answer:True

Compute the outerjoin of R and S, where the condition is: R.A>S.B AND R.B=S.C. Which of the following tuples of R or S is dangling (and therefore needs to be padded in the outerjoin)?

answer:(4,7,9)ofS

Compute the full outer join on B, the left outer join on B, and theright outer join on B. In each case, R is the left operandand S is the right operand. Then, answer the following questions for each of thethree results

answer:eo co cau tra loi, nhu bop dai :|

Data modeling may be the most important part of the systems development process because:

answer: Data characteristics are important in the design of programs and other systems components

A business rule:

answer: All of the above: Define, Assert, Controls

Business rules should be determined primarily by interviewing executives in the business.

answer: False

The common types of entities are:

answer: All:Strong, Weak, Associative

A property or characteristic of an entity type that is of interest to the organization is called a(n):

answer: attribute

A relationship is an association between attributes.

answer: False

A good data name should be:

answer: readable, unique, and repeatable

A multivalued attribute is an attribute that is common to many entities.

answer: False

A person's name, birthday, and social security number are all examples of:

answer: Attributes

A(n) \_\_\_\_\_ is the relationship between a weak entity type and its owner.

answer: identifying relationship

The \_\_\_\_\_ specifies the number of instances of one entity that can (or must) be associated with each instance of another entity.

answer: cardinality constraint

The degree of a relationship is the number of entity types that participate in a relationship.

answer: True

A ternary relationship is a simultaneous relationship between more than three entity types.

answer: False

Which is NOT a basic construct of an E-R model?

answer: Identifiers

An attribute that can be calculated from related attribute values is called a \_\_\_\_\_attribute

answer: derived

An attribute that uniquely identifies an entity, and consists of a composite attribute is called a(n):

answer: Composite identifier

An entity that associates the instances of one or more entity types and contains attributes specific to the relationships is called a(n):

answer: Associative entity

The number of entity types that participate in a relationship is called the:

answer: Degree

A relationship between the instances of a single entity type is called a \_\_\_\_\_relationship.

answer: Unary

An entity type name should always be a singular noun.

answer: True

A simultaneous relationship among the instances of three entity types is called a \_\_\_\_\_relationship.

answer: ternary

A \_\_\_\_\_ specifies the number of instances of one entity that can be associated with each instance of another entity.

answer: Cardinality constraint

A relationship where the minimum and maximum cardinality are both one is a(n) \_\_\_\_\_ relationship.

answer: Mandatory one

A mutually exclusive relationship is one in which:

answer: An entity instance can participate in only one of several alternative relationships

A student can attend five classes, each with a different professor. Each professor has 30 students. The relationship of students to professors is a \_\_\_\_\_ relationship.

answer: Many-to-many

The total quiz points for a student for an entire semester is a(n) \_\_\_\_\_ attribute.

answer: Derived

A join operation:

answer: causes two disparate tables to be combined...

Data Definition language (DDL) is used to:

answer: declare database schemas

A database is an organized collection of \_\_\_ related data.

answer: logically

The relation data model consists of which component?

answer: All: Data integrity, Data manipulation, Data structure

A rule that CANNOT be violate by database users is called a:

answer: constraint

In the SQL language, the\_\_\_ statement is usedto creat database definitions

answer: create table

Which of the following types of data can be stored in adatabase

answer: All: Voice, letters, numbers

Given a relation R(A,B,C,D) with dependencies A-->C, C->D. Which of the followings doesn't hold in R?

answer: A->C

What is the property that good decomposition must have?

answer: All: Elimination of anomalies, Recoverability of information, Preservation of dependencies

Given a relation R(A,B,C,D) with functional dependencies A->BC, C->D,D->A. Find one key of R

answer: {A}

Functional dependency is a constraint on \_\_\_\_\_\_\_\_\_\_

answer: Two sets of attributes of a relation

One attribute is called prime if \_\_\_\_\_\_\_\_\_\_

answer: It is a member of key

Choose the false statement about the decomposition into BCNF?

answer: The decomposition has the dependency preservation property

Choose a right statement

answer: If X is a key, then X is a super key

The principle strategy to convert subclasses to relations is \_\_\_\_\_\_\_\_\_

answer: all: Follow, Treat, Use

Choose a wrong answer

answer: UML offers multi-way relationships

Choose a right answer

answer: all: the value, Entity set, Relationship

When we say one class has many students, and a student is a member of one class, we mean that the multiplicity of this relationship from class entity set to student entity set is \_\_\_\_\_\_\_\_\_

answer: One - many

An attribute (or attributes) that uniquely identifies each row in a relation is called a/an:

answer: primary key

Choose a wrong statement

answer: E/R model represents both the structure of data and the operations on data

The number of entity types that participate in a relationship is called the :

answer: degree

An attribute of the relation R to which the ? is applied is called

answer: Grouping attribute

To convert a bag to a set, we use \_\_\_\_\_\_\_\_\_ operator

answer: d

Suppose R(A,B,C) is bag, S=sA>B(R). Choose a right answer

answer: S has the same schema as R, and S has less or equal tuples than R has

Suppose a relation R(A,B,C) as a bag, and a relation S=pA,B(d(R)) as a bag, too. R has 4 tuples (1,2,2), (1,3,2), (1,2,2), and (1,2,3). S has\_\_\_\_\_\_\_\_\_\_ tuples

answer: 3

Suppose a relation R(A,B) has 4 tuples (1,2), (2,3), (1,1), (2,4). A result of ?A,SUM(B)?SUM(R) is \_\_\_\_\_\_\_\_\_\_

answer: A relation has 2 tuples (1,3), (2,7)

Suppose a relation R(A,B) and S(B,C) as a bags. R has 2 tuples (1,2),(1,4) and S has 3 tuples (2,3), (4,5) and (4,5). The theta-join R ? \_R.B<S.B S has \_\_\_\_\_\_\_\_\_\_ tuples

answer: 2

Choose one answer.

answer: This operation is valid and the result has three tuples

The result of ((10<NULL) OR TRUE) AND (UNKNOWN OR FALSE) is

answer: UNKNOWN

Which of following is not part of Data Manipulation Language (DML)?

answer: CREATE statement

Suppose a relation R has two attributes A and B. Choose a valid query

answer: SELECT A, B, COUNT(\*) FROM R GROUP BY A, B

Choose the right statement

answer: all: Sub-queries can appear, return a single, return relations

Which of following condition is TRUE

answer: (UNKNOWN OR TRUE) OR (UNKNOWN AND FALSE)

Suppose a relation R has two numeric non-null attributes A, B. Which of the following queries do we use to count the number of tuples in R ?

answer: COUNT(\*) COUNT(A) COUNT(B)

Suppose a relation S has three numeric attributes A, B, and C. Choose a valid query

answer: SELECT A, SUM(\*) FROM S GROUP BY A HAVING COUNT(B)<20

NULL value is \_\_\_\_\_\_\_\_\_\_

answer: all: unknown, inapplicable, withheld

Choose a wrong answer

answer:Every relation has only one index

Choose a right answer

answer: A virtual view is defined by an expression like a query

Given the relation Movies(title, year, length, genre, studioName).Select the right query to create a view with the titles and studio names of all movies that were produced in 1980

answer:CREATE VIEW OldMovies AS SELECT title, studioName FROM Movies where year=1980

When a user makes contact, a \_\_\_\_\_\_\_\_\_\_ response to the request, and the user becomes a client of this \_\_\_\_\_\_\_\_\_\_ process.

answer: webserver, webserver

Function parameters may be of mode \_\_\_\_\_\_\_\_\_\_

answer: IN

Which of the followings is right about well-formed XML documents?

answer: All: involve, have, begin

The DBMS acts as an interface between what two components of an enterprise-class database system?

answer: Database application and the database

Which of the following projects illustrates a database being designed from existing data?

answer: A database using the Production Department's spreadsheets

Which of the following projects illustrates a database being designed as a new systems development project?

answer: A database designed to produce production reports for a new Production Department manufacturing process

Which of the following products was an early implementation of the relational model developed by E.F. Codd of IBM?

answer: DB2

The following are components of a database except \_\_\_\_\_\_\_\_ .

answer: reports

An application where only one user accesses the database at a given time is an example of a(n) \_\_\_\_\_\_\_\_ .

answer: multiuser database application

Which of the following projects illustrates a database being designed as a redesign of an existing database?

answer: A database that will combine two databases currently used by the Production Department

An on-line commercial site such as Amazon.com is an example of a(n) \_\_\_\_\_\_\_\_ .

answer: e-commerce database application

Which of the following products was the first to implement true relational algebra in a PC DBMS?

answer: R:base

SQL stands for \_\_\_\_\_\_\_\_ .

answer: Structured Query Language

Because it contains a description of its own structure, a database is considered to be \_\_\_\_\_\_\_\_ .

answer: self-describing

The following are functions of a DBMS except \_\_\_\_\_\_\_\_ .

answer: creating and processing forms

Helping people keep track of things is the purpose of a(n) \_\_\_\_\_\_\_\_ .

answer: database

Which of the following products implemented the CODASYL DBTG model?

answer: IDMS

An Enterprise Resource Planning application is an example of a(n) \_\_\_\_\_\_\_\_ .

answer: multiuser database application

A DBMS that combines a DBMS and an application generator is \_\_\_\_\_\_\_\_ .

answer: Microsoft's Access

You have run an SQL statement that asked the DBMS to display data in a table named USER\_TABLES. The results include columns of data labeled "TableName," "NumberOfColumns" and "PrimaryKey." You are looking at \_\_\_\_\_\_\_\_ .

answer: metadata

Which of the following is not considered to be a basic element of an enterprise-class database system?

answer: COBOL programs

The DBMS that is most difficult to use is \_\_\_\_\_\_\_\_ .

answer: Oracle Corporation's Oracle

The relational database model was created by E.F. Codd.

answer: True

A database is called "self-describing" because it contains a description of itself

answer: True

In a database, data is stored in spreadsheets which have rows and columns.

answer: False

A database has data and relationships.

answer: True

Databases create information.

answer: True

One of the reasons why OODBMSs have not been widely used for business information systems is that OOP is obsolete.

answer: False

A database administrator designs, constructs, and manages the databases.

answer: True

In an enterprise-class database system, business users interact directly with database applications, which directly access the database data.

answer: False

Applications are programs that interact directly with the database.

answer: False

The purpose of a database is to help people stop using spreadsheets.

answer: False

Microsoft Access is an enterprise-class database product.

answer: False

Structured Query Language (SQL) is an internationally recognized standard language that is understood by all commercial database management system products.

answer: True

The XML family of standards is very important in database processing today.

answer: True

A database has a built-in capability to create, process and administer itself.

answer: False

Enterprise Resource Planning (ERP) is an example of a single user database.

answer: False

Prior to 1970, all data was stored in separate files, which were mostly stored on reels of magnetic tape.

answer: True

A database design may be based on existing data.

answer: True

The DBMS ranked as being the "easiest to use" in the text is Oracle Corporation's Oracle.

answer: False

Database applications are seldom intended for use by a single user.

answer: False

The DBMS ranked as being the "hardest to use" in the text is Microsoft's SQL Server.

answer: False

In an Enterprise-class database system, business users interact directly with database applications that interact with the DBMS, which directly accesses the database data.

answer: True

Suppose R and S are bags, and t is the tuple that appears n-times and m-times in R and S (n=0, m=0).How many time dose t tupe appear in

answer:In {R^S}, t appears (n + m) times, In {R U S}, t appears MIN(n, m) times, In {R \ S}, t appears MAX(0, n - m) times

Arithmetic operators on NULL values will return

answer: a NULL value

Comparisons with NULL values will return

answer: UNKNOWN

Choose the false statement about the decomposition in to BCNF

answer: the relations of the...

\_\_\_is the framework under which data ay exist and SQL operations on data may beexecuted

answer: SQL environment

which of the following is the extended operator of relational algebra?

answer: All: Outerijoins, Grouping, Duplicate

Which statement is true regarding subqueries?

answer: all: The NOT, = ANY, the IN

In ODL, if we have a may- one relationship from class C to class D,then\_\_

answer: Inclass C, the type of the relationship is just D, while the type of the relationship in D is SET

which of the following statement is invalid?

answer:if A->B, B->->C hold in relation R, then A=>Vholds,too

which of the following is applied in PSM

answer:All: Cursors, queries, Subqueries

Which of the followings may be a part of well-formed XML document?

answer: all

sUPPOSE THE REALTION sale(ITEM, CUSTOMER, quantity, price) with more than billion tupeles from the large database. We try to providea rapid random and sequential access to this table by\_\_\_

answer: Creating some indicies

Which of the followings is characteristic of UML?

answer: Classes are sets of objects, with satate and behaviors

Suppose R(A,B) and S(B,C) are bags. R has two tuples (1,2), (2,30. S hasthree tuples (1,3), (3,2), (2,1). Evalue the following relational expression: gA,SUM(C)-> SUMC(R\*S), where \* denotes the natural join

answer: the result relation has two tuples (1,1) and (2,2)

Which of the followings is belong to DML?

answer: GRANT

The responsibility of Database management system is\_\_

answer: All: Allowusers, Support, Give

Which of the following Datalog rules is unsafe?

answer: Q(x,y,z)<- U(x,y) AND T(x,y) AND NOT T(x,z)

Which of the following statement is used to delete all data from table EMPLOYEES except it's schema?

answer: DELETE FROM EMPLOYEES

Which of the followings has the same meaning as attribute-based constraint?

answer: Entity-based constraint

When we define an attribute A as PRIMARY KEY of relation R, then\_\_

answer: All: tuple must be not, there are no two, no more primary key...

An attributesin\_\_\_are only integers and character strings

answer: ODL

how can we convert the subclass structure to relations?

answer: Contruct a single relation for whole hierarchy ofenitity sets

Choose a right answer

answer: A virtual view is defined by an expression like a query

The most useful index on a relation is an index on its key. This is because:

answer: Queries in which a value for the key is ...

Which of the following is not a benefit of using views?

answer: None of the others

Suppose an updatable view FoxMovies is associated with Movies relation. Choose a right answer

answer: All: An update on Movies is translated into FoxMovies va ngc lai,Drop FoxMovies does not affect Movies

A clustering index is \_\_\_\_\_\_

answer:An index that is defined on non-key field(s) and there can be more than one record corresponding to a value of the indexing field

Choose the invalid statement

answer: Views allow each user to have his or her own view of the database, which creates data redundancy

Suppose a relation R(A,B,C) where all attributes are numeric. Choose a valid query to create an updatable view

answer: None of the others

Which of the fllowing statement is true about User Defined Type?

answer: All: An UDT, the 0-0, many relations

Which of the following is true about SQL session?

answer: the sessions lasts as long as the conection that created it

Which of the followings is false about weak entity set?

answer: THe key for a weak

What do we say a bout views?

answer: All: droping : a base table, a view, views dont exist

WHich of the followings is right about attributes on XML documents?

answer: DTD is a grammar

Which of the followings evolves to information integration?

answer: None of other

Which of the followings was the first ever used for data model?

answer: File system

An A attribute is called the key of relation R if\_\_\_

answer: All: it functionally, Its closure, there are no

Where cannot we use PSM procedures

answer: None of the others

View is\_\_\_\_

answer: None of the others

\_\_\_manage the interations with the user

answer: the webserver-tier processes

Which of the followings is false about E/R model?

answer: attributes are very simply types...

Which of the following statement is true?

answer: A recursion in Datalog can be expressed in relational algebra

Which of the followings doesn't take the key's condition 'no two tuples aree on all attributes f key'?

answer: Foregn key

Suppose relation R(A,B,C,D), and set of FD's S={A->B, B->D,AD->C}. find one key of R

answer: {A}

Which of the followings is not true about XML documents?

answer: XML data is presented in one or more document

Suppose relation R(A,B,C,D,E) and se of FDs A->D, AD->C, C->BE. Compute {A}+

answer: {A,B,C,D,E}

database users can connect to database management system as

answer: all: Database designer, Database adinistrator, Database end-user

Advantages of DBMS?

answer: Redundancy is controlled, Enforcing integrity constraints

A \_\_\_\_\_\_ is a relation name, together with the atributes

answer: schema

Which SQL Statement is used to delete a relation named R?

answer: DELETE FROM R

There are 2 ways in whihc we can use expressions of relational algebra to express constraints

answer: True

A set of attributes form a \_\_\_\_\_\_ for a relation if we do not allow 2-tuples in a relation instance to have same the values in all that attributes

answer: key

Natural Join is a special case of Inner Join

answer: True

Suppose we have a schema R(A,B,C). Now we want to add an attribute D to R. Which SQL statement is used to do that?

answer: ALTER TALBE ADD COLUMN D int;

The following is an example of what data model:

answer: Seme-structureedd data model (or Hierchical data model)

Non-Equi-join is a special case of Inner join?

answer: False

In \_\_\_\_\_\_\_ data modle, relations are presented as tables

answer: relational

What are extension and intension?

answer: Extension - is the number of tuples present in a table at any instance. This is time dependent. - Intension - is the number of tuples present in a table at any instance. This is time dependent

The type \_\_\_\_\_\_\_ denotes a fixed-length string of up to N-characters

answer: CHAR(n)

A \_\_\_\_\_\_\_ is a notation for describing the structure of the data in a database, along with constraint on that data

answer: data model

The ERD is model that shows logical layout of your database

answer: True

A relationshop shows how an entity are related to another (or sometimes the same) entity

answer: True

A(an) \_\_\_\_\_\_\_\_ is a graph representing entity sets, attributes and relationships

answer: ERD

What is an Entity?

answer: The collections of entities of a particular entity type are grouped together into an entity set.

\_\_\_\_\_\_\_ are connections among two or more entity sets

answer: Relationships

A collection of similar entities forms an \_\_\_\_\_\_\_\_

answer: Entity Type (or Entity Set)

A composition relationship in UML is similar to a relationship in ER model

answer: Many-one

A class in UML is similar to a(an) in ER model

answer: Entity Set

A/an shows how an entity are related to another (or sometimes the same) entity

answer: strong entity

are connections among two or more entity sets

answer: Relationships

An is an abstract object of some sort

answer: Entity

A collection of similar entities forms an

answer: Entity Type (or Entity Set)

A weak entity is

answer: Does not, is an

A(an) is a graph representing entity sets, attributes and relationships

answer: ERD

An association in UML is similar to a(an) in ER model

answer: Binary relationship

ER data model is based on real world that

answer: True

An Entity Set is an entity set that have not sufficient attributes to form a primary key

answer: Weak

A weak entity is

answer: Does not ha a key attribute(s), Is an entity that has not any key-attribute

An aggregation in UML is similar to a \_\_\_ relationship in ER model

answer: Many-One

An ERD provides a means to analyze business requirements so as to standardize organizational vocabulary, enforce business rules, and ensure adequate data quality

answer: TRUE

An\_\_\_is an abstract object of some sort

answer: Entity

An/A\_\_\_\_\_\_ provides a means to analyze business requirements so as to standardize organizational vocabulary, enforce business rules, and ensure adequate data quality

answer: ERD

What is degree of Relatioship type?

answer: It is the number of attributes participating in that relationship

What is Relationship (in ER model)?

answer: None of the others:It is a particular property,...; It is an association among two or more entities!

The ERD is a model that shows the logical layout of your database

answer: TRUE

In ERD, the\_\_\_indicates the maximum number of relationships between the entities

answer: Cardinality

The\_\_\_is a model that shows the logical layout of your database

answer: ERD

What is an Entity Set?

answer: It is the collections of entities of a particular entity type are grouped together into an entity set.

\_\_\_are connections among two or more entity sets

answer: Relationships

are connections among two or more entity sets

answer: relationship

What is an attribute (in ER model)?

answer: all of others, it is particurlarproperty, which describes the entity, It is an association two or more entires

In most ERDs, if you have a 1:1 relationship, there is probably something wrong with your design. It should be very rare to have 1:1's. Normally this would indicate that your two entities with the one-to-one relationship should be combined into one single entity

answer: true

What is Relationship set?

answer: the collection (or set) of similar relationship

A collection of similar entities forms an

answer: Entity Type (or Entity Set)

are a notation for describing schemas of databases

answer: ERD

In database design processes, data requirements are expressed through ERDs

answer: True

A composition relationship in UML is similar to a \_\_\_ relationship in ER model

answer: one-one

In database design processes, data requirements are expressed through \_\_ (choose 2)

answer: ERD, Schema Design

What is degree of Relationship type?

answer: it is the number of attributes participating in that relationship

What is an Entity Set?

answer: it is the collections of entities of a particular entity type are grouped together into an entity set.

Which of the following statements are correct?I) All relations in 3NF are also in BCNF.II) All relations with only two attributes are in BCNF.III) For any relation schema, there is a dependency-preserving decomposition into 3NF only

answer: II) All relations with only two attributes are in BCNF.III) For any relation schema, there is a dependency-preserving decomposition into 3NF

Suppose we have a relation R(XYZT) with FD's: YT-> Z;XY->T;XZ->Y;YT->X

answer: RisinBCNF

Suppose we have a relation R(XYZT) with FD's: X-> Z;Y-> X;X->T;XT->Z

answer: R is not in BCNF

Normalization is a process of analyzing the given relation schema based on their Functional Dependencies (FDs) and primary key to achieve the following:

answer: All of the others

There are 2 ways in which we can use expressions of relational algebra to express constraints

answer: True

Which of the following relations is in Boyce-Codd Normal Form (BCNF)?

answer: R(ABCD)FD'SIBD->C;AB->D;AC->B;BD->A

Consider a relation R(X,Y,Z,T,V) with functional dependencies. XY->Z. Y->T, and. Z->V

answer: XY

A Functional dependency is denoted by X -> Y between two sets of attributes X and Y that aresubsets of R specifies a constraint on the ossiblp e tuple that can form a relation state r of R.The constraint is that: for any two tuples t1 and t2 in r if t1[X] = t2[X] then they have t1[Y] = t2[Y]. This means the value of X component of a tuple uniquely determines the value ofcomponent Y

answer: True

When is a functional dependency set F said to be minimal? (choose all possible)

answer: We cannot replace any dependency X->A in F with a dependency Y->A where Y is a proper subset of X and still have a s

What is BCNF (Boyce-Codd Normal Form)?

answer: A relation schema R is in BCNF if every non prime attribute is non-transitively dependent on primary key

What is Relationship (in ER model)?

answer: None of the others

In most ERDs, if you have a 1:1 relationship, there is probably something wrong with your design. It should be very rare to have 1:1's. Normally this would indicate that your two entities with the one-to-one relationship should be combined into one single entity

answer:true

Consider the law, that holds for set relations: (S intersect T) - R = S intersect (T-R). The above law still hold for bag relations?

answer:true

Suppose relation R(A,B,C) has the tuples: Using bag projection and intersection, compute .... Note that the renaming is only to give the two projections the same schema. Which of the following is true about the tuples that appear in the result?

answer:(3,3) appears once in the result

Suppose relation R(A,B) has the tuples: and the relation S(B,C,D) has tuples: Compute the outerjoin of R and S, where the condition is: R.A>S.B AND R.B=S.C. Which of the following tuples of R or S is dangling (and therefore needs to be padded in the outerjoin)?

answer:(4,7,9) of S

Suppose relations R(A,B) and S(B,C,D) are follows: Compute the full outer join on B, the left outer join on B, and theright outer join on B. In each case, R is the left operandand S is the right operand. Then, answer the following question for each of thethree results: 1.How many rows are there in the result? 2.How many NULL's appear in the result. Finally, find the correct statement in the list below.

answer:The full outer join has 4 rows

When join 2 relation, we want to display all the records in that 2 relations we must use:

answer:cross join

Consider the law, that holds for set relations: (R natural join S) = (S natural join R) The above law still hold for bag relations?

answer:true

AVG, SUM, COUNT, MIN, MAX are:

answer:Aggregation function

Why bag?

answer:Because commercial DBMS's implement bag relations rather than set relations

Consider the distributive law, that holds for set relations: (R U S) - T = (R-T) U (S-T). The above distributive law still hold for bag relations?

answer:false

Suppose that R and S are bag relations. The tuple T appears N-times in R and M-times in S. Choose the correct statement:

answer:T appears MIN(N,M) times in (R INTERSECT S)

\_\_\_ operators are operators that operate on groups and return a number for each group

answer:Grouping

Suppose that R and S are bag relations. The tuple T appears N-times in R and M-times in S. Choose the correct statement:

answer:T appears(N+M) times in (R UNION S)

1. Consider the law, that holds for set relations:(3/20) (R natural join S) = (S natural join R)The above law still hold for bag relations?

answer: True

3. Consider the distributive law, that holds for set relations:(6/20) (R u s) - T = (R-T) u (S-T).The above distributive law still hold for bag relations?

answer: True

4. Consider the law, that holds for set relations:(7/20) R U (S intersect T) = (R U S) intersect (R U T)The above law still hold for bag relations?

answer: True

5. Consider the law, that holds for set relations:(7/20) R U (S intersect T) = (R U S) intersect (R U T)The above law still hold for bag relations?

answer: True

6. Consider the law, that holds for set relations:(7/20) R U (S intersect T) = (R U S) intersect (R U T)The above law still hold for bag relations?

answer: False

7. Suppose that R and S are bag relations. The tuple T appears N-times in R and M-times in S.Choose the correct statement:

answer: T appears MIN(N,M) times in (R INTERSECF s)

8. Consider the law, that holds for set relations:(9/20) T intersect (R U S) = (T intersect R) U (T intersect S).The above law still hold for bag relations?

answer: True

9. \_\_\_\_ operators are operators that operate on groups and return a number for each group projection

answer: Grouping

10. Suppose that R and S are bag relations. The tu I Tp e appears N-times in R and M-times in Choose the correct statement:

answer: T appears (N+M) times in (R UNION S)

11. \_\_\_ operators partition the tuples of a relation into groups

answer: Grouping

12. Using bag projection and intersection, compute PROJECTION A,B(R) INTERSECT (RENAMEMIB)(PROJECTIONB,c(R)). Note that the renaming is only to give the two projections the sameschema. Which of the following is true about the tuples that appear in the result?

answer: (2,3) appears twice in the result

answer:

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1. Under which of the following environments does your program’s execution

code run?

A. MSIL

B. CLS

C. CLR

D. VB .NET

Answer: CLR

2. What is the compiler called that converts IL code into platform-specific code?

A. MSIL-converter

B. JIT

C. JTI

D. Metadata

Answer: JIT

3. What is the output format of the file the C# compiler produces?

A. Byte code

B. IL

C. Hex dump

D. Intel Assembler

Answer: IL

4. Given the following program, what is the outcome when you try to compile

and run it?

using System;

class Test

{

public static int Main()

{

Console.WriteLine("Hello World!");

}

}

A. It will compile and print “Hello World!” when run.

B. It will compile and result in a runtime error indicating that the Console

is an unknown object.

C. It will fail to compile with an “error CS0161: 'Test.Main( )': not all code

paths return a value”.

D. It will fail to compile with an "error CS0161:'Test.Main( ): method cannot

return an int".

Answer: not all code

5. Hiding the implementation and exposing the interface is a concept of

OOP called:

A. Polymorphism

B. Encapsulation

C. Overloading

D. Static

Answer: Encapsulation

6. Which of the following statements is true?

A. A class is the implementation of an object.

B. An object is the implementation of a class.

C. A class is the instantiation of an object.

D. An object is the instantiation of a class.

Answer: object is instantiation

7. Which of the following is the correct way to declare the method

GetPayCheck()?

A. public int GetPayCheck()

B. private int GetPayCheck()

C. private void GetPayCheck(int a)

D. public void GetPayCheck(int a)

Answer: public int GetPayCheck()

8. Which is a definition of a static method?

A. public static MethodA()

B. public void MethodA()

C. private static MethodA()

D. public static void MethodA()

Answer: public static void MethodA()

9. Which of the following languages is not part of the current .NET languages?

A. Visual Basic

B. C#

C. C++

D. FoxPro

Answer: FoxPro

10. In order to compile a C# program from the command line, what command

would you use?

A. cmd

B. comp

C. csc

D. daml

Answer: csc

1. Given the following code segment, what will the value returned from the

method be?

public int ViktorMove()

{

int x = 42;

int y = 12;

int w;

object o;

o = x;

w = y \* (int)o;

return w;

}

A. 504

B. 491

C. 42

D. Runtime error, Null Pointer exception!

Answer: 504

2. When will the garbage collector run?

A. Every 15 minutes.

B. Once every day at 13:00.

C. When the application is low on memory.

D. Randomly based on the resource load on the system.

Answer: When the application is low on memory.

3. The statement that is used to replace multiple if statements is called:

A. The case statement.

B. The switch statement.

C. The nestedif statement.

D. The #endif statement.

Answer: The case statement.

4. Which of the following is not a C# keyword?

A. if

B. delegate

C. private

D. implements

Answer: implements

5. Choose the correct method for declaring a namespace:

A. namespace Osborne.Chapter5

B. namespace Osborne.Chapter5;

C. namespace Osborne.Chapter5.MyClass

D. namespace Osborne.Chapter5.MyClass;

Answer: namespace Osborne.Chapter5;

6. Determine the output of the following code segment:

int x = 42;

x++;

x += --x;

System.Console.WriteLine ("The value of x is : {0}", x);

A. 84

B. 83

C. 86

D. 85

Answer: 85

1. Given the following code, what will the compiler do?

class Test1

{

sealed abstract void MyMethod1A()

{

System.Console.WriteLine ("This is MyMethod1");

}

}

A. The code will compile properly.

B. The class visibility is incorrect.

C. System.Console.WriteLine is specified incorrectly.

D. MyMethod1() is not properly declared.

Answer: MyMethod1() is not properly declared.

2. Which line causes a compile error in the following code?

1. interface Test2

2. {

3. int Int2;

4. void Method2A(int);

5. string Method2B ();

6. int Method2C(int, int);

7. int Method2A(char);

8. }

A. Line 3

B. Line 4

C. Line 5

D. Line 7

Answer: Line 3

3. What is the outcome of compiling this program?

1 public class Test3

2 {

3 void Method3A ()

4 {

5 System.Console.WriteLine ("In Method3A");

6 }

7 }

8 class Test3a: Test3

9 {

10 void Method3B ()

11 {

12 Method3A();

13 }

14 }

15 class Test3b

16 {

17 public static void Main()

18 {

19 Test3a a = new Test3a();

20 a.Method3B();

21 }

22 }

A. It compiles successfully.

B. Lines 12 and 20 are in error.

C. Line 12 is an error.

D. Line 20 is the error.

Answer: 12 and 20 are in error.

4. What will happen on line 24?

1 class Test4

2 {

3 int test4a;

4 string test4b;

5 float test4c;

6 virtual public void Test4D ()

7 {

8 System.Console.WriteLine("Hello")

9 }

10 }

11 class Test4a: Test4

12 {

13 override public void Test4D ()

14 {

15 System.Console.WriteLine ("Goodbye");

16 }

17 }

18 class Test4b

19 {

20 public static void Main()

21 {

22 Test4a t = new Test4a();

23 Test4 t1 = t;

24 t.Test4D();

25 }

26 }

A. The compiler finds an error.

B. A runtime error occurs.

C. It prints “Goodbye.”

D. It prints “Hello.”

Answer: “Goodbye.”

5. What is the result of the following code?

class Test5

{

public Test5 ( )

{

System.Console.WriteLine ("Test5 1");

}

public Test5 (int num)

{

System.Console.WriteLine ("Test5 2");

}

}

class Test5a

{

public Test5a (): base(5)

{

}

public Test5a(int numb): base()

{

}

}

class Test5b

{

public static void Main()

{

Test5a t = new Test5a(12);

}

}

A. It prints “Test5 1.”

B. It prints “Test5 2.”

C. It does not compile.

D. It does not run.

Answer: “Test5 1.”

1. Given the following code segment, what is the content of the string s in line 4?

1 string s = "Hello";

2 string r;

3 r = s;

4 r += " World!";

A. “Hello World!”

B. “Hello”

C. Nothing, it is garbage collected

D. The code will not compile

Answer: “Hello”

2. Which of the following array declarations will produce a compiler error?

A. int[] Integers = new int[] (1,2,3,4,5,6,7,8,9,0};

B. int[] Integers = new int[42];

C. int[] Integers = {1,2,3,4,5,6,7,8,9,0};

D. int I = 4;

int[] Integers = new int[I] {1,2,3,4};

Answer: new int[I]

3. In the following code, what will be printed by the Console.WriteLine()

method?

string[] str = {"Hello", "!", "World"};

Array.Reverse(str);

Console.WriteLine(str[0]);

A. “!”

B. “Hello”

C. “olleH”

D. “World”

Answer: “World”

4. In the following code, what will be printed by the Console.WriteLine()

method?

string[] str = {"Hello", "!", "World"};

Array.Sort(str);

Console.WriteLine(str[0]);

A. “!”

B. “Hello”

C. “olleH”

D. “Hello World !”

Answer: "!"

5. What is the outcome of the following code?

01 public void MethodB ()

02 {

03 int [] MyInts = new int [2];

04 try

05 {

06 for ( int i = 0; i < 3; i++)

07 {

08 MyInts[i] = i;

09 }

10 } catch (System.Exception e)

11 {

12 System.Console.WriteLine ("Some error occurred");

13 }

14 }

A. The code will not compile because there is an incorrect catch block.

B. The code will not compile because of an error on line 6.

C. The code will compile and displays “Some error occurred”.

D. The code will compile and will abort upon execution.

Answer: “Some error occurred”

6. What is the outcome of the following code?

01 public void MethodB ()

02 {

03 int [] MyInts = new int [2];

04 try

05 {

06 for ( int i = 0; i < 3; i++)

07 {

08 MyInts[i] = i;

09 }

10 } finally

11 {

12 System.Console.WriteLine ("This is executed");

13 }

14 }

A. The code will not compile because there is a missing catch block.

B. The code will compile and abort upon execution.

C. The code will compile and displays “This is executed”.

D. The code will compile and will abort upon execution and then display

“This is executed”.

Answer: “This is executed”

7. You need to define a delegate for the following method:

public class Class1

{

public static int Method42(int i)

{

return i\*42;

}

}

How is the delegate for Method42() declared?

A. delegate Class1.Method42;

B. delegate int Met42(int i);

C. delegate void Method42(string s);

D. delegate int Class1.Method42(int i);

Answer: delegate int Met42(int i);

8. What kind of delegate will be created for the following method?

public void Method12(object sender, System.EventArgs e)

{

…

}

A. Single delegate

B. Event delegate

C. Multicast delegate

D. Proxy delegate

Answer: Multicast delegate

9. The following code segment creates an event handler. What text must be

inserted in place of <<replace text here>> for the event to work?

// declare the delegate for the event

public delegate void SendFaxEventHandler();

public class Fax

{

// declare the SendFax event

public <<replace text here>> event SendFaxHandler SendFax;

// …

}

A. void

B. delegate

C. Combine

D. static

Answer: static

10. You are building an event handler for the SendFax event from the sFax

component, and you have written the following code. When you test the

event handler, you find that it never runs. What code must you add to your

application to make the event execute in response to the SendFax event?

private void Send\_Fax()

{

Console.WriteLine("Fax is sent!");

}

A. public delegate SendFax(Send\_Fax);

B. this.sFax.SendFax += new SendFaxHandler(this.Send\_Fax);

C. public event SendFax(Send\_Fax);

D. this.sFax.SendFax =+ new SendFaxHandler(this.Send\_Fax);

Answer: SendFax += new SendF

1. You want to see all the methods of a particular class that you are using in your

application. Which tool would you use?

A. Class Viewer

B. Object Browser

C. Class Explorer

D. Object Explorer

Answer: Object Browser

2. You want to change the color of the text in the code window. Which menu item

would you select?

A. View | Options

B. Tools | Customize

C. View | Customize

D. Tools | Options

Answer: Tools | Options

3. Which key combination will allow you to compile your console application

and leave the console window open?

A. CTRL-F5

B. ALT-F5

C. F5

D. SHIFT-F5

Answer: CTRL-F5

4. To create a class file that can be added to a library, you would select which

project type?

A. ASP.NET Web Application

B. Class Library

C. Console Application

D. Web Control Library

Answer: Class Library

1. What is the name given to the type of assembly that contains localized

resources?

A. Spoke

B. Hub

C. Sputnik

D. Satellite

Answer: Satellite

2. What is the correct name for a resource file with images for the English culture,

in the United States subculture?

A. images.US-en.resources

B. images.en-US.resources

C. resources.images.en-US

D. images.en-US.dll

Answer: es.en-US.resources

3. What is the minimum number of assemblies a .NET application can have?

A. 0

B. 1

C. 2

D. 3

Answer: 1

4. How is the metadata for an assembly stored?

A. In the Registry.

B. In .ini files.

C. As XML in the manifest.

D. As a Type Library (.tlb) file.

Answer: As XML in the manifest.

5. What tool is used to manage the assemblies in the Global Assembly Cache?

A. gacmgr.exe

B. gacutil.exe

C. gassy.exe

D. al.exe

Answer: gacutil.exe

1. What is the code for the German language?

A. ge

B. gb

C. de

D. dk

Answer: de

2. What namespace contains the ResourceManager class?

A. System.Localization

B. System.Resources

C. System.Globalization

D. System.Threading

Answer: Resources

3. What is the process called that converts a primitive to a class?

A. Primary

B. Boxing

C. Conversion

D. Encoding

Answer: Boxing

4. Which of the following code segments will correctly display the string resource

txtHello? (All objects are correctly created.)

A. Console.Write(rm.ToString("txtHello");

B. Console.WriteLine(rm.Strings("txtHello");

C. Console.Write(txtHello.ToString("s"));

D. Console.Write(rm.GetString("txtHello"));

Answer: rm.GetString("txtHello")

5. What does the following command do?

csc /res:strings.resources HelloGlobalWorld.cs

A. Builds only the HelloGlobalWorld program.

B. Builds the HelloGlobalWorld and links the fallback resource.

C. Creates an assembly for the HelloGlobalWorld program.

D. Creates a name resolution report for the HelloGlobalWorld program.

Answer: Builds the HelloGlobalWorld and links the fallback resource.

6. When localizing a web application, you find that you need to encode Unicode

characters that are sent to the client. What attribute would you set?

A. ResponseEncoding="UTF-8"

B. Encoding="UTF-8"

C. ResponseCode="UTF-8"

D. EncodedResponse="UTF-8"

Answer: ResponseEncoding="UTF-8"

7. What happens when the Resource Manager fails to find the localized resource

for a locale?

A. It uses the closest locale.

B. It throws an exception.

C. Nothing, the resource will be blank.

D. It uses the fallback resource.

Answer: the fallback resource

8. What namespace contains the CultureInfo class?

A. System.Localization

B. System.Resources

C. System.Globalization

D. System.Threading

Answer: Globalization

9. Do you have to produce all the locale-specific assemblies before deploying the

application?

A. Yes, the assemblies must be present for the final compile of the application.

B. Yes, the fallback manifest must be built from all the satellite assemblies.

C. Yes, the .NET Framework must update the registry with all the information

at deployment.

D. No, the satellite assemblies can be deployed at will after initial deployment.

Answer: No, the satellite assemblies can be deployed at will after initial deployment.

10. In the following code segment, what is the significance of the "Strings" literal?

static ResourceManager rm = new ResourceManager("Strings",

Assembly.GetExecutingAssembly());

A. Arbitrary name for the assembly.

B. The base name of the resource to be loaded.

C. The base name of the assembly to be loaded.

D. Alias for the Resource Manager.

Answer: the resource to be loaded

11. Where in the object model is the information relating to the date format stored

for a specific locale?

A. ResourceManager

B. CultureInfo

C. LocalFormat

D. Reflection

Answer: CultureInfo

12. Your application is called AccountingOne.exe. What must the name of the

French string resource be?

A. AccountingOne.resources.dll

B. strings.resources

C. strings.fr.resources.dll

D. strings.fr.resources

Answer: strings.fr.resources

13. What does the attribute dir="rtf" stand for?

A. The direction of RTF files.

B. The encoding of RTF files.

C. The direction for the display of characters.

D. A directory listing of all RTF files.

Answer: for the display of characters.

14. Your application is called AccountingOne.exe. What must the name of the

satellite assemblies be?

A. Accountingone.resources.dll

B. accounting.Resources.dll

C. AccountingOne.resources.dll

D. Accounting.resources.dll

Answer: untingOne

1. Which command will cause an XML file to be generated from documentation

comments?

A. csc MyClass.cs /doc:MyClass.cs

B. cscd MyClass.cs /doc:MyClass.xml

C. cscd MyClass.cs /doc:MyClass.cs

D. csc MyClass.cs /doc:MyClass.xml

Answer: csc .xml

2. Which line causes the following XML to be not well-formed?

<VideoList>

<tape>

<name>XML is cool!</name>

</VideoList>

</tape>

A. <tape>

B. </VideoList>

C. </tape>

D. <name>XML is cool!</name>

Answer: </VideoList>

3. Which XML rule does the following break?

<employees>

<Employee>

<name>Kenneth S. Lind</name>

</Employee>

<employee>

<name>Marj Rempel

</employee>

</employees>

A. There must be a single root element.

B. There must be matching opening and closing tags.

C. XML is case-sensitive.

D. All attributes must be in quotes.

Answer: be matching opening and closing tags.

4. Which XML rule does the following break?

<employees>

<employee>

<name id=123>Kenneth S. Lind</name>

</employee>

<employee>

<name id=456>Marj Rempel</name>

</employee>

</employees>

A. There must be a single root element.

B. There must be matching opening and closing tags.

C. XML is case-sensitive.

D. All attributes must be in quotes.

Answer: All attributes must be in quotes.

5. Visual Studio .NET provides a tool to generate HTML from the XML

documentation file. It is found where?

A. Tools | Generate XML

B. Tools | Generate HTML

C. Tools | Build Comment Pages

D. Tools | Build Comment Web Pages

Answer: Web Pages

6. Which XML line(s) generates an employee attribute?

A. <employee name="Ken">

B. <employee attribute name="Ken">

C. <employee Name='Ken'>

D. <employee attribute Name='Ken'>

Answer: ee name=/ee Name='Ken'

7. Which of the following lines is an XML declaration?

A. <xml version="1.0">

B. ?xml version="1.0"?

C. <?xml version=1.0?>

D. <?xml version="1.0"?>

Answer: <?xml version="1.0"?>

8. Why will the following XML code not be rendered by a browser?

<name>

<lastname>Dowdy</lastname>

<firstname>Howdy</firstname>

</lastname>

A. The browser is not specified.

B. The root element is missing.

C. The root element is not closed properly.

D. The firstname element is incorrect.

Answer: not closed properly.

9. Assess the following XML. Which answer correctly describes the code?

<addresses>

<listing>

<name>

<lastname>Dowdy</lastname>

<firstname>Howdy</firstname>

</name>

<address>

<street>123 Anywhere St</street>

<city>MyCity</city>

</address>

</listing>

</addresses>

A. The name element is described incorrectly.

B. The address element is described incorrectly.

C. The addresses root element is described incorrectly.

D. Nothing—this is well-formed XML.

Answer: Nothing—this is well-formed XML.

10. Which of the following documentation comments is correct?

A. /// summary This is a summary comment summary

B. /// <summary> This is a summary comment </summary>

C. /// <summary> This is a summary comment

D. /// summary This is a summary comment

Answer: <summary></summary>

1. You have been asked to debug a Web-based ASP.NET application. For some

reason, the debugging information is not presented. What could be missing?

A. <%@ Page Debug="true" %>

B. <%@ Application Debug="true" %>

C. <%@ Page Trace="true" %>

D. <%@ Application Trace="true" %>

Answer: Page Debug="true" %>

2. You want to examine and change the value of a variable in your C# application.

You are developing using Visual Studio .NET. What window will allow you to

change the value during execution?

A. Locals window

B. Call Stack window

C. Immediate window

D. Watch window

Answer: Immediate window

3. You want to compile a console-based program at the command line. What is

the correct syntax of the command-line compiler that will allow you to see

debugging information?

A. csc /b:debug MyApp.cs

B. csc /d:debug MyApp.cs

C. csc MyApp.cs /b:debug

D. csc MyApp.cs /d:debug

Answer: MyApp.cs /b:debug

4. Trace switches can be set using which class?

A. System.Diagnostics.Trace

B. System.Diagnostics.DefaultTraceListener

C. System.Diagnostics.TraceSwitches

D. System.Diagnostics.TraceSwitch

Answer: TraceSwitches

5. The correct syntax for adding a trace listener to the Listeners collection is:

A. TraceListeners.Add (new

TextWriterTraceListener("myfile.txt");

B. Trace.Listeners.Add (new

TextWriterTraceListener("myfile.txt");

C. Trace.Add (new TraceListener ("myfile.txt");

D. TraceListener.Add (new TraceListener("myfile.txt");

Answer: Trace.Listeners.Add (new TextWriterTraceListener("myfile.txt");

6. To debug an ASP.NET application, you need to attach to which process?

A. aspnet.exe

B. asp.net.exe

C. aspnet\_debug.exe

D. aspnet\_wp.exe

Answer: aspnet\_wp.exe

7. How would you create a breakpoint in your code within Visual Studio .NET?

A. Press F9.

B. Right-click in the margin and select Insert Breakpoint.

C. Choose Debug | New Breakpoint from the menu system.

D. All of the above.

E. None of the above.

Answer: All of the above.

1. What does the following SQL statement return, assuming that all tables and

column names are correct?

SELECT FirstName, StreetAddress

FROM Employees

JOIN AddressBook

ON Employees.EmpID = AddressBook.EmpID

A. Nothing, the JOIN syntax is wrong.

B. All the records from the Employees table, and only the matching ones from

the StreetAddress table.

C. All the records from the StreetAddress table, and only the matching records

from the Employees table.

D. Only the matching records from the two tables.

Answer: Only the matching records from the two tables.

2. What is a transaction?

A. A banking term.

B. A concept used to describe a step in the business process.

C. A combination of DML steps that must succeed or the data is returned to its

initial state.

D. A combination of DDL steps that must succeed or the data is returned to its

initial state.

Answer: of DML steps that must succeed or the data is returned to its initial state.

3. What object is used to encapsulate a data source?

A. XxxConnection

B. XxxCommand

C. XxxDataAdapter

D. DataSet

Answer: XxxConnection

4. What object is used to encapsulate a rowset?

A. DataSet

B. DataAdapter

C. DataRowSet

D. DataTable

Answer: DataTable

5. What property is used on the DataTable to indicate a conflict after an update?

A. HasConflict

B. HasError

C. HasCollision

D. HasDataError

Answer: HasError

6. What is a DiffGram?

A. An XML file containing both the original and current values for the data.

B. An XML file containing the difference between original and current data.

C. A DataSet loaded with two XML files, resulting in the difference

being current.

D. A DataSet loaded with an XML file and the original values from

the data source.

Answer: both the original and current values for the data.

7. How is the data represented in an XmlDataDocument?

A. Relational

B. Flat

C. Hierarchical

D. Tabular

Answer: Hierarchical

8. When would you not use the OleDbConnection object?

A. To connect to an SQL 7.0 database.

B. To connect to a DB/2 database.

C. To connect to an Access database.

D. To connect to an SQL 6.5 database.

Answer: an SQL 7.0 database.

9. What connection is used in ADO.NET to connect to an SQL Server 6.0?

A. Use the OleDbConnection class.

B. Upgrade the server to SQL 7.0 and use the OleDbConnection class.

C. Upgrade the server to SQL 2000 and use the OdbcConnection class.

D. Upgrade the server to SQL 6.5 and use the SqlConnection class.

Answer: Use the OleDbConnection class.

10. On what object is the transaction in ADO.NET focused on?

A. The command object

B. The DataSet object

C. The connection object

D. The DataAdapter object

Answer: The connection object

11. What is the SQL argument that sorts the data returned by an SQL SELECT

statement?

A. GROUP BY

B. SORT BY

C. SORTED

D. ORDER BY

Answer: ORDER BY

12. What combination of methods are used to improve the speed of the Fill()

method of the DataAdapter?

A. BeginFillData() and EndFillData()

B. StartFillData() and EndFillData()

C. BeginLoadData() and EndLoadData()

D. StartLoadData() and EndLoadData()

Answer: BeginLoadData() and EndLoadData()

13. The following SQL INSERT statement fails. What is the most probable reason

for the failure?

INSERT INTO Employees VALUES (42,'Bob','Carol', 12)

A. Syntax error in the INSERT statement.

B. The columns in the Employees table are not in the indicated order

(int, char, char, int).

C. The Employees database does not have a default table defined.

D. The SELECT INTO permission is not set.

Answer: (int, char, char, int).

14. In the following code, what is the result of compilation?

using System;

using System.Data;

using System.Xml;

class question14

{

public static void Main()

{

DataSet dsNw = new DataSet();

string strCn = "data source=(local);user id=sa;" +

"initial catalog=northwind;";

SqlConnection cnNw = new SqlConnection(strCn);

string strSQL = "SELECT \* FROM Employees";

SqlDataAdapter daNw = new SqlDataAdapter(strSQL, cnNw);

daNw.Fill(dsNw, "Employees");

XmlDataDocument doc = new XmlDataDocument(dsNw);

doc.Save(Console.Out);

}

}

A. No errors

B. One error

C. Two errors.

D. Three errors.

Answer: Three errors.

15. What is the result of the following SQL statement?

USE Northwind

DELETE Employees

A. The Employees table is emptied.

B. The current record is deleted.

C. Syntax error, the USE command is wrong.

D. The Employee database in the Northwind server is deleted.

Answer: table is emptied.

1. What definition correctly defines a label server control with the name set to

lblHoop?

A. <asp:Label name="lblHoop" runat="server" />

B. <Label id="lblHoop" runat="server" />

C. <asp:label id="lblHoop" runat="server" />

D. <server label name="lblHoop" runat="asp" />

Answer: <asp:label id="lblHoop" runat="server" />

2. What ASP.NET object encapsulates the user’s data as it is sent from a form

in a page?

A. The Session object.

B. The Application object.

C. The Response object.

D. The Request object.

E. The Server object.

Answer: The Request object.

3. What important standard is used to connect client browsers with web servers?

A. HTTP

B. TCP/IP

C. ASP.NET

D. HTML

Answer: TCP/IP

4. What ASP.NET object is used to get information about the web servers

hostname?

A. The Session object.

B. The Application object.

C. The Response object.

D. The Request object.

E. The Server object.

Answer: Server object.

5. When writing server-side code, what marks are used to indicate the code block?

A. <% %>

B. <!-- -->

C. <@ language="c#" @>

D. <asp:script runat="server" />

Answer: <% %>

6. What computer language is installed with the .NET Framework, by default?

A. JavaScript

B. Quick Basic

C. C

D. LiveScript

Answer: JavaScript

7. What is the name of the process the browser uses to find the address of

a web server?

A. DMZ

B. DNS

C. Active Directory

D. Database lookup

Answer: DNS

8. How many rules are there regarding a well formed XML document?

A. Nine

B. Three

C. Six

D. Two

Answer: Six

9. What line in the following XML document will generate an error?

1 <?xml version="1.0">

2 <employees>

3 <employee>

4 <name>Bob Andcarrol</Name>

5 </employee>

6 <employee>

7 <Name>Robert Burns</Name>

8 </employee>

9 </employees>

A. 6

B. 4

C. 1

D. There is no error.

Answer: 4

10. What language is the standard web script language ECMAScript based on?

A. JavaScript

B. Java

C. Perl

D. Jscript

Answer: JavaScript

11. What is the behavior of a web browser when it receives an invalid element?

A. The web browser will display the element in raw form.

B. The web browser will send a report to the webmaster detailing the error

by using the Request object.

C. The web browser will report the error, letting you debug the page.

D. The browser will ignore the invalid section.

Answer: ignore the invalid section.

12. What ASP.NET object encapsulates the state of the client and the browser?

A. The Session object.

B. The Application object.

C. The Response object.

D. The Request object.

E. The Server object.

Answer: Session object.

13. What object would you use if you need to support Netscape Navigator and

Microsoft Internet Explorer?

A. ActiveX control

B. Intrinsic controls

C. XML

D. Java applet

Answer: Java applet

14. What method(s) must be used with the Application object to ensure

that only one process accesses a variable at a time?

A. Synchronize()

B. Lock() and UnLock()

C. Lock() and Unlock()

D. SingleUse()

Answer: UnLock()

15. What ASP.NET object encapsulates the web site?

A. The Session object.

B. The Application object.

C. The Response object.

D. The Request object.

E. The Server object.

Answer: Application object.

1. When working with ASP.NET server controls, it is important to use the right

event handlers to capture the event for the application to function properly.

What event would you use to capture the selection of a new item in a

DropDownList control?

A. The Click event.

B. The SelectionChanged event.

C. The SelectedIndexChanged event.

D. The ChangedSelection event.

Answer: SelectedIndexChanged event.

2. What code segment represents the event handler registration for the click event

of the btnA Button control?

A. this.btnA.Click.Register(new System.EventHandler

(this.setList));

B. this.btnA.Click.Add(new System.EventHandler

(this.setList));

C. this.btnA.ClickEvent += new System.EventHandler

(this.setList);

D. this.btnA.Click += new System.EventHandler(this.setList);

Answer: btnA.Click +=

3. When an ASP.NET server control is added to a Web Form, Visual Studio .NET

adds one item to the class for the form. What item is added?

A. The event registration.

B. A protected class member for the control.

C. A default event handler for the click event.

D. A default class that inherits from the control’s base class.

Answer: protected class member for the control.

4. When a browser requests an .aspx file and the file is displayed, what is

actually returned to the browser from the server?

A. HTML

B. XML

C. ASPX

D. ASP

Answer: HTML

5. What is the function of the CustomValidator?

A. It allows for custom C# client-side code to validate entries in a control.

B. It allows for a custom mixture of validator controls to use one central

control for the display of messages.

C. It uses scripted client-side code to validate the entry in a control.

D. It uses server-side code to validate the entry in a control.

Answer: It uses scripted client-side code to validate the entry in a control.

6. What attribute must be set on a validator control for the validation to work?

A. Validate

B. ValidateControl

C. ControlToBind

D. ControlToValidate

Answer: ControlToValidate

7. The Items property of a ListBox is a reference to what kind of object?

A. Item

B. ListItem

C. String

D. Index value

Answer: ListItem

8. What is the use of the WebForm.aspx.cs file?

A. Holds the HTML code for the form.

B. Holds the control configuration for the form.

C. Holds the C# code for the codebehind module.

D. Holds the C# code that will be translated into HTML on the client.

Answer: for the codebehind module.

9. Given an ASP.NET Web Form called WebForm1, what class does the WebForm1

class inherit from by default?

A. System.Web.Form

B. System.Web.GUI.Page

C. System.Web.UI.Page

D. System.Web.UI.Form

Answer: UI.Page

10. What layout mode is the default when a new Web Form is created?

A. GridBagLayout

B. GridLayout

C. FlowLayout

D. FormLayout

Answer: GridLayout

11. When does the DropDownListBox control reload its list?

A. Every time the server-side codebehind module is called.

B. Every 2 minutes by default.

C. When the user clicks on an entry in the control.

D. Never.

Answer: Every time the server-side codebehind module is called.

12. What is the Web.config file used for?

A. To store the global information and variable definitions for the application.

B. Configures the time that the server-side codebehind module is called.

C. To configure the web server.

D. To configure the web browser.

Answer: To store the global information and variable definitions for the application.

13. What happens if an ASP.NET server control with event-handling routines is

missing the runat="server" attribute from its definition?

A. The control will operate as usual; the default is runat="server".

B. The control will revert to being a client-side control and function as such.

C. The control will not function; the default is runat="client".

D. The compilation of the application will fail.

Answer: The compilation of the application will fail.

14. What happens if an ASP.NET server control with no event-handling routines is

missing the runat="server" attribute from its definition?

A. The control will operate as usual; the default is runat="server".

B. The control will revert to being a client-side control and function as such.

C. The control will not function; the default is runat="client".

D. The compilation of the application will fail.

Answer: not function; the default is runat="client".

15. After capturing the SelectedIndexChanged event for a ListBox control,

you find that the event handler doesn’t execute. What could the problem be?

A. The AutoEventWireup attribute is set to False.

B. The AutomaticPostBack attribute is set to False.

C. The codebehind module is not properly compiled.

D. The ListBox must be defined WithEvents.

Answer: AutomaticPostBack attribute is set to False.

1. What must be done before you can consume a web service?

A. Build a proxy library by using the TblImp.exe utility.

B. Build a proxy library by using the Disc.exe utility.

C. Build a proxy library by using the csc.exe utility.

D. Build a proxy library by using the wsdl.exe utility.

Answer: wsdl.exe utility.

2. You need to use the web service TempConvService. Where should you

place the proxy file?

A. In the lib directory off the root directory of the application.

B. In the root directory of the application.

C. In the bin directory off the root directory of the application.

D. In the bin directory of .NET Framework.

Answer: bin off the root directory of the application.

3. You need to use the web service TempConvService. What page directives

correctly expose the web service?

A. <%@ Page Language="c#" Debug="true" %>

<%@ Import = "TempConvService" %>

B. <%@ Page Language="c#" Debug="true" %>

<%@ Import namespace="TempConvService" %>

C. <%@ Page Language="c#" Debug="true" %>

<%@ Import ProxyNameSpace="TempConvService" %>

D. <%@ Page Language="c#" Debug="true" %>

<%@ Import namespace="bin/TempConvService" %>

Answer: <%@ Page Language="c#" Debug="true" %><%@ Import namespace="TempConvService" %>

4. You need to call a function that is located in a library named

MyLibrary.dll, and this is the function signature:

int MyFunc(int intAction, int intOption, uint uValue)

You also need to rename the function to Func42 to avoid name conflicts in the

application. Which code segment will correctly make the function available to

your application?

A. [DllImport("MyLibrary.dll")]

public static extern int Func42 (int intAction, int intOption, int

uValue);

B. [DllImport("MyLibrary.dll", EntryPoint = "Func42")]

public static extern int Func42 (int intAction, int intOption, uint

uValue);

C. [DllImport("MyLibrary.dll")]

D. [DllImport("MyLibrary.dll", EntryPoint = "MyFunc")]

public static extern int Func42 (int intAction, int intOption, uint

uValue);

Answer: "MyFunc"

6. You have been given the task of designing a web service to expose the data

that is stored in a database on the server. In order to successfully build the

web services, you need to import some namespaces. What is the minimum

namespace you need to import?

A. System.Web

B. System.WebServices

C. System.Web.Services

D. System.Web.ServiceModel

Answer: Web.Services

7. You have designed an event for the class you are working on, and the event is

declared as follows:

// declare the delegate for the event

public delegate int MugEmptyHandler(int RefillVolume);

// declare the event

public static event MugEmptyHandler OnMugEmpty;

When you try to register the event in the client code by using the following

line, you receive a syntax error:

this.OnMugEmpty += new MugEmptyHandler(this.Mug\_Empty);

You need to make the OnMugEmpty event functional. What will you do?

A. Change the declaration of the event to indicate the parameter.

B. Change the declaration of the event to indicate the return type.

C. Change the declaration of the delegate to have no parameters.

D. Change the declaration of the delegate to have a void return type.

Answer: a void return type.

8. You are building an event handler for the SendFax event from the sFax

component, and you have written the following code:

private void Send\_Fax()

{

Console.WriteLine("Fax is sent");

}

When you test the event handler, you find that it never runs. What code must

be added to your application to make the event execute in response to the

SendFax event?

A. public delegate SendFax(Send\_Fax);

B. this.sFax.SendFax += new SendFaxHandler(this.Send\_Fax);

C. public event SendFax(Send\_Fax);

D. this.sFax.SendFax =+ new SendFaxHandler(this.Send\_Fax);

Answer: Fax += new SendFaxHandler(this.Send\_Fax);

9. Your manager has asked you to describe what you would use application

variables for. What statement best describes the use of application variables?

A. Application variables are used to keep state for each connected user.

B. Application variables are used to keep state for the web site.

C. Application variables are used to keep state for all the applications on

the server.

D. Application variables are used to keep state for all application objects in

the web site.

Answer: the web site.

10. You are using Visual Studio .NET to set up a reference to a COM component,

but the reference operation fails. What is one possible solution?

A. Register the COM component with .NET using TlbImp.exe.

B. Register the COM component using wsdl.exe.

C. Move the COM component to the bin directory of the application.

D. Register the COM component in the Registry using Regsvr32.exe.

Answer: Regsvr32.exe.

11. What information do you need to have in order to successfully reference a web

service using the Add Reference dialog box?

A. The URI for the web service’s .asmx file.

B. The URL for the web service’s .asmx file.

C. The URL for the web service’s disco file.

D. The URI for the web service’s disco file.

Answer: URL .asmx file.

12. You have defined some web service methods, but when you test the web

service, you do not have the methods available. The web service is defined

as follows:

[WebMethod]

private void email(string to, string[] message, int option)

{

…

}

What will you do to solve the problem?

A. Replace the attribute with [WebServiceMethod].

B. Make the method public.

C. Change the string[] to an object array.

D. Change the return type to int.

Answer: Make the method public.

13. You find that after running the following command line commands from the

root directory of your web site that the web service is not available:

>wsdl /l:cs /o:Address.cs http://localhost/Address/Address.asmx?WSDL

/n:AddressService

>csc /out:AddressProxy.dll /t:library /r:system.web.dll, system.dll,

system.xml.dll, system.web.services.dll, system.data.dll Address.cs

What will you do to make the web service available with the least amount of

code and work?

A. Run the following command:

regsvr32 /.NET AddressProxy.dll

B. Rerun the csc command specifying /o:bin/AddressProxy.dll.

C. Rebuild the AddressProxy.dll file using the /AutoPost option.

D. Rebuild your application after adding the reference to the web service.

Answer: Rerun the csc command specifying /o:bin/AddressProxy.dll.

14. You have designed a web form that has one listbox control. You have

implemented the SelectedIndexChanged event handler, and you have

verified that all required declarations are in place and that the event handler is

registered. During testing of the form, you find that the event does not execute.

What is the most efficient way to make the event execute?

A. Set the AutoPostBack attribute of the listbox control to False.

B. Set the AutoPostBack attribute of the @ Page directive to True.

C. Set the AutoPostBack attribute of the listbox control to True.

D. Change from the listbox control to the DropDownList control.

Answer: to True.

1. What HTML element is the asp:Label control rendered as when the target is

Internet Explorer?

A. <label>

B. <span>

C. <div>

D. <table>

Answer: <span>

2. What HTML element is the asp:Label control rendered as when the target is

Netscape Communicator?

A. <label>

B. <span>

C. <div>

D. <table>

Answer: <span>

3. What is the result when a Web Form containing the following line is compiled

and executed?

<asp:Button id="theButton" onClick="theEvent" />

A. The button control is created; theEvent is the Click event handler.

B. Compiler error; the control must be set to runat="server".

C. Compiler error; onClick is not a valid attribute.

D. Runtime exception; the control must be set to runat="server".

Answer: Runtime exception; the control must be set to runat="server".

4. What HTML element is the asp:panel control rendered as?

A. <span>

B. <table>

C. <div>

D. <p>

Answer: <div>

5. How do you specify the parameters for the ads in the AdRotator control?

A. By programmatically setting the properties.

B. By using an initialization file in .xml format.

C. By using an initialization file in .txt format.

D. By using an initialization file in .ini format.

Answer: .xml format.

6. What of the following best describes a user control?

A. A collection of server controls gathered in a web file with the

<%@ Control %> directive.

B. A collection of controls that are compiled into an assembly.

C. A control that is built from multiple user-defined COM-based controls.

D. A simple lightweight control that can display text only.

Answer: <%@ Control %>

7. Which of the following is valid after adding the following directive to

a Web Form?

<%@ Register TagPrefix="WWW" TagName"WWWControl" Src="WWWControl1.ascx" %>

A. <WWW:WWWControl1 id="theControl" runat="server" />

B. <asp:WWWControl id="theControl" runat="server" />

C. <WWW:WWWControl id="WWWContr" runat="server" />

D. <asp:WWWControl1 id="WWWContr" runat="server" />

Answer: WWW:WWWControl

8. You have correctly added the <%@ Register %> directive and the user-control

definition in the <asp:Form> tag, but when you run the application it fails.

What is the most likely cause of the failure?

A. The protected class variable for the control is missing from the codebehind

module.

B. The event registration is not performed; you must manually add it to the

InitializeComponent event handler.

C. There must be a call to the control’s constructor in the Page\_load()

method.

D. The control must be added to the Web Form’s Controls collection.

Answer: The protected class variable for the control is missing from the codebehind module.

9. After building a custom control, you test it by adding an ASP.NET web application

to the solution. You add a correct <%@ Register %> directive and a proper

declaration of the control in the <asp:Form> tag to the Web Form, but when

you execute the application you get an error. What is the most likely reason for

the problem?

A. The custom control must be compiled first.

B. The web application must have a reference to the control.

C. The custom control must be registered with Windows first.

D. The assembly from the custom control is not in the application’s bin

directory.

Answer: The assembly from the custom control is not in the application’s bin directory.

10. You have successfully created a custom control and a web application project to

test the control. The application runs with no problems, but when you look at

the Design view of the Web Form, the control is displayed using an error display.

What is the most efficient way to resolve the error display?

A. Move the control to the web application’s bin directory, and recompile the

application.

B. Add a reference to the control to the web application.

C. Change the Bindable attribute for the Default property in the control

to have a value of True.

D. Manually enter the 128-bit GUID for the control in the application’s

configuration file.

Answer: Add a reference to the control to the web application.

11. What method must be overridden in a custom control?

A. The Paint() method.

B. The Control\_Build() method.

C. The Render() method.

D. The default constructor.

Answer: The Render() method.

12. Your manager has asked you if ASP.NET can be used with dynamic control

creation, and if it requires any extra software to make dynamic controls possible.

What would you answer your manager?

A. Yes, dynamic controls are possible using the standard control containers

from ASP.NET.

B. No, dynamic controls are not possible in ASP.NET.

C. Yes, dynamic controls are possible in ASP.NET using a third-party assembly.

D. Yes, dynamic controls are possible in ASP.NET by using the Web Services.

Answer: using the standard control containers from ASP.NET.

1. What property is used to control how the user can press ALT-F to set the focus to

a control?

A. AccessKey

B. ControlOrder

C. TabOrder

D. TraceOrder

Answer: AccessKey

2. You have created a localized web application that supports English, French,

German, and Spanish. After building the resource files, you code all the strings

to come through the ResourceManager.GetString() method. You test

the application by using the browser on your development computer, and as

you switch languages in the Regional Settings, everything functions as expected.

After deploying the application, you receive a message from a client saying that

the application does not change when the client accesses it with a computer

configured to use the French locale. You need to fix the application. What will

you do?

A. Rebuild the resource assembly.

B. Add code to change the current thread’s culture to the user’s culture.

C. Add code to change the location of the resource assembly.

D. Instruct the user to upgrade to a newer browser.

Answer: current thread’s culture to the user’s culture.

3. What is used to validate complex string patterns like an e-mail address?

A. Extended expressions.

B. Regular expressions.

C. Irregular expressions.

D. Basic expressions.

Answer: Regular expressions.

4. What is the default language for the fallback culture?

A. English.

B. Swedish.

C. User’s setting.

D. Neutral.

Answer: Neutral.

5. What namespace is needed for Event Log support?

A. System.Event

B. System.Diagnostics

C. System.EventLog

D. System.Diagnostics.Event

Answer: Diagnostics

6. What property controls whether the text in a TextBox control is displayed in

clear text or as a collection of \* characters?

A. PasswordCharacter

B. Hide

C. Encrypt

D. TextMode

Answer: TextMode

7. You need to customize the error messages from your web application. What

file will you modify to customize the error messages?

A. Web.config

B. Error.config

C. Application.config

D. global.asax

Answer: Web.config

8. What property is set in order to display the text in reverse flow order?

A. rtl

B. ltr

C. dir

D. reverse

Answer: dir

9. You have configured custom error pages for your application. When you test

the pages from a co-worker’s computer, they display properly, but when

displayed in your browser on the development computer, they display

incorrectly. What will you do to correct the display of the error pages on

your computer?

A. Install Internet Explorer 6.0.

B. Change the mode attribute to localhost in the Web.config file.

C. Change the mode attribute to RemoteOnly in the Web.config file.

D. Change the mode attribute to On in the Web.config file.

Answer: On in the Web.config file.

10. After adding messages to the trace log, you need to locate the output. What

section contains the messages a developer has added to the trace log?

A. Trace Information.

B. Control Tree.

C. Cookies.

D. Headers Collection.

E. Server Variables.

Answer: Trace Information.

11. What file would you modify to implement application-wide error processing

for all unhandled errors?

A. Web.config

B. Error.config

C. Application.config

D. global.asax

Answer: global.asax

12. What property is used to control the order in which the controls are accessed?

A. AccessKey

B. ControlOrder

C. TabIndex

D. TraceOrder

Answer: TabIndex

13. How do you enable tracing?

A. Set the Trace property of the Web Form to True.

B. Set the Trace property of the Server object to True.

C. Set the Session variable Trace to True.

D. Set the Applications variable Trace to True.

Answer: Web Form to True.

14. What control is used to validate that two fields are equal?

A. RequiredFieldValidator

B. RegularExpressionValidator

C. CompareValidator

D. The equals() method of the field.

Answer: CompareValidator

15. What method is used to insert a highlighted entry in the trace output?

A. Trace.Write()

B. Trace.HighLight()

C. Trace.Error()

D. Trace.Warn()

Answer: Trace.Warn()

1. What is the SQL equivalent of the DataSet relation object?

A. XOR JOIN

B. CROSS JOIN

C. OUTER JOIN

D. INNER JOIN

Answer: INNER JOIN

2. Why should you close all database objects and set them to NULL before leaving

the method where the objects were created?

A. To ensure that the object’s destructors are called.

B. To ensure that the connection to the database is closed as soon as possible.

C. To ensure that the objects can be reused.

D. Good coding practice.

Answer: connection to the database is closed as soon as possible.

3. What is the purpose of the following code segment?

if ( !IsPostBack )

{

sqlDataAdapter1.Fill(dsUsers1);

DataGrid1.DataBind();

}

A. To populate the DataAdapter the first time the web page is displayed.

B. To populate the DataSet every time the web page is displayed.

C. To populate the DataAdapter every time the web page is displayed.

D. To populate the DataSet the first time the web page is displayed.

Answer: DataSet the first time the web page is displayed.

4. Where are stored procedures saved?

A. The GAC.

B. The web server.

C. The database server.

D. The central store.

Answer: The database server.

5. What is the root exception for the ADO.NET objects?

A. DataException

B. ADOException

C. Exception

D. DBException

Answer: DataException

6. What best describes the xxxDataReader?

A. A disconnected collection of tables.

B. A manager that manages the connection to a data source, using four SQL

statements.

C. A connected, read-only, forward-only representation of the data source.

D. The component that encapsulates the database driver.

Answer: A connected, read-only, forward-only representation of the data source.

7. You are the developer of a Web Form, and you need to display data from a

Microsoft SQL Server 6.5 in a DataGrid on your form. What DataAdapter is

the most appropriate?

A. sqlDataAdapter

B. oleDbDataAdapter

C. odbcDataAdapter

D. adoDataAdapter

Answer: oleDbDataAdapter

8. What is the purpose of the last string ("{0}") in the following code segment?

DataBinder.Eval(dS1, "Tables[SP\_SelUsers].DefaultView.[0].LastName",

"{0}");

A. It is the formatting string for the bound data.

B. It is the default value that will be used when the data is NULL.

C. It is the parameter sent to the stored procedure SP\_SelUsers.

D. It is the placeholder for a DataBinding object.

Answer: formatting string for the bound data.

9. What is the correct namespace for use with the SQL .NET Data Provider objects?

A. System.SQL

B. System.Data.SqlConnections

C. System.Data.SqlClient

D. System.SqlConections

Answer: Data.SqlClient

10. What is the correct statement to use for declaring that an xxxCommand object is

used with a table?

A. aCmd.CommandType = CommandType.Table;

B. aCmd.CommandType = Table;

C. aCmd.CommandType = "Table";

D. aCmd.CommandType = "CommandType.Table";

Answer: CommandType.Table;

11. How many sqlDataReader objects can be open on one Connection at one

time?

A. 4

B. 3

C. 2

D. 1

Answer: 1

12. What is the SQL wildcard character?

A. \*

B. %

C. &

D. @

Answer: %

13. You need to connect to a Microsoft SQL Server version 6.5. What Connection

object is the best choice?

A. sqlConnection

B. oleDbConnection

C. ODBCConnection

D. You must upgrade; there is no connection object for this database.

Answer: oleDbConnection

14. You are using the try... catch block seen in the following code segment,

but no exceptions are ever caught by the catch block. What is the problem?

sqlConnection cn =new sqlConnection(strSQL);

sqlDataSet ds;

try

{

cn.Open();

//perform the data processing steps

...

}catch(OleDbException e){

...

}

A. The exception class is wrong; it should be SqlErrors.

B. The exception class is wrong; it should be SqlSyntaxExceptions.

C. The exception class is wrong; it should be SqlExceptions.

D. The exception class is wrong; it should be SQLExcptions.

Answer: SqlExceptions.

15. You are designing a Web Form that needs to have data available for as long as

eight hours at a time. Your manager has raised some concern that the database

server will be unable to provide services to a large number of connected users.

What object in the ADO.NET architecture will you bring to your manager’s

attention as a possible solution?

A. SQL disconnected recordsets.

B. oleDbDataReader

C. ODBCRecordSet

D. oleDbDataSet

Answer: oleDbDataSet

1. You are the developer of a web application that is retrieving historical sports

information from a database server and displays it to the users of your application.

What cache strategy will give you the best performance?

A. Use the output cache.

B. Use the cache object.

C. Use the ASP.NET central cache.

D. Use the client cache.

Answer: output cache.

2. You are the developer of a web application and have decided to use the output

cache in ASP.NET. Which of the following statements correctly defines the Web

Form if you want to use the output cache, cache all items for 14 minutes, and

store different versions of the cached objects for each customer ID?

A. <%@ OutputCache Duration="840" VaryByCustom="true" %>

B. <%@ OutputCache Duration="14" VaryByCustom="true" %>

C. <%@ OutputCache Duration="840" VaryByParam="Customer ID" %>

D. <%@ OutputCache Duration="14" VaryByParam="Customer ID" %>

Answer: 840 ustomer ID

4. You are configuring security for a web application that will be used on your

company intranet. Your company is using Intel-based as well as Apple computers

running Windows and other operating systems. The following is part of the

Web.config file for the application:

<configuration>

<authentication mode="<<Enter Answer Here>>">

<forms>

loginUrl="login.aspx"

protection="All"

timeout="30"

path="/"

</forms>

</authentication>

</configuration>

What will you replace "<<Enter Answer Here>>" with to successfully have

all users authenticate to the application?

A. Forms

B. Basic

C. Digest

D. Windows

Answer: Forms

5. What should be added to basic authentication?

A. FTP

B. TCP

C. SSL

D. NHL

Answer: SSL

6. You are deploying a web application using the XCOPY method, and you are

now selecting the files that should be included in the deployment. What file

extensions must be included in the deployment? Select all that apply.

A. .resx

B. .aspx

C. .cs

D. .ini

Answer: .aspx

7. You have just installed IIS on your desktop computer that is running Windows

2000 Professional. Directly after the installation, you try to create a web application

and you are given error messages indicating that the Internet server is incompatible

with the .NET Framework. You need to create a web application, so what is the

fastest way to be able to do so?

A. Configure the FrontPage Server Extensions.

B. Repair the .NET Framework installation from the Visual Studio .NET Windows

Component update CD.

C. There is no solution. Windows 2000 does not support .NET Framework web

application development.

D. Re-boot the computer.

Answer: Repair the .NET Framework install

8. What is required in order to be able to install and use SSL on a web server?

A. Export permission.

B. The SSL add-on CD.

C. Server certificate.

D. Encryption key.

Answer: Server certificate.

10. True or false. The Web.config file can be used to store configuration data for

properties of some controls.

A. True.

B. False.

Answer: True.

11. What tool is used to manage the GAC?

A. GacMgr.exe

B. GacSvr32.exe

C. GacUtil.exe

D. RegSvr.exe

Answer: GacUtil.exe

12. What is the effect of the following code snippet from the Web.config file?

...

<system.web>

<authorization>

<deny users="?" />

</authorization>

</system.web>

A. Anonymous access is denied.

B. Only anonymous access is allowed.

C. Users in the default group are denied access.

D. There will be a syntax error when the application is executed.

Answer: Anonymous access is denied.

13. You are deploying the web application you have been developing to a

production server. Your application uses a number of resource assemblies and

also one utility assembly that has been developed for the web application. You

deploy the application by using a file-archiving utility to package all the .aspx

and Web.config files into the archive, and the application is installed on

the production server by un-packing the archive in the target directory. The

deployment did not generate any error messages; but when you are testing the

application, you find that it does not work. None of the localized resources

display anything, and there are a large number of errors displayed. You need

to make the application function normally—what is the most efficient way to

achieve that goal?

A. Enable tracing for the application, trace to an XML file, analyze the output,

and correct the source of the problems.

B. Copy the /bin directory from the development system to the production

server.

C. Install Visual Studio .NET on the production server; enable debugging; and

single-step through the application, correcting all problems as they appear.

D. Abort the deployment, and inform the customer that you will be back as

soon as you have found the problem.

Answer: Copy the /bin directory f

14. True or false. The GAC cannot store multiple versions of the same assembly.

A. True.

B. False.

Answer: False.

15. You are configuring your web application to require digest-based authentication.

What must you have in place before you can use digest-based authentication?

A. A DNS server.

B. Active Directory.

C. Strong encryption keys.

D. A strongly named Web.config file.

Answer: Active Directory.

1. Which of the following methods are ways to create a Windows Form?

A. Visual inheritance.

B. Building a derived class from System.Windows.Forms.Form.

C. Extending a prebuilt form.

D. Selecting a form class from the Inheritance Picker.

E. All of the above.

Answer: All of the above.

4. You want to add a control to your form that allows you to set a particular

option on or off. Which control would you choose?

A. Button

B. CheckedListBox

C. CheckBox

D. ListBox

E. RadioButton

Answer: CheckBox

7. When you set the Localization property of a form to True, which of the

following happens?

A. You allow the application to accept localization resources.

B. The form is translated into the language specified in the Language

property.

C. The property asks you for the translation language.

D. The program prompts you to provide a language resource.

Answer: You allow the applicat

8. By setting the Text property on the form, you will cause the value of the Text

property to display on which part of the form?

A. Bottom-right corner

B. Top-right corner

C. Title bar

D. Status bar

Answer: Title bar

10. What would the outcome of an application that contained this code be?

private void Form1\_Load (object sender, System.EventArgs e)

{

Form1.Hide();

}

A. The application would not compile.

B. The program would run but no form would display.

C. The program would run and display the form.

D. A runtime error would occur.

Answer: application would not compile.

11. What would the outcome of an application that contained this code be?

private void Form1\_Load (object sender, System.EventArgs e)

{

this.Hide();

}

A. The application would not compile.

B. The program would run but no form would display.

C. The program would run and display the form.

D. A runtime error would occur.

Answer: and display the form.

13. Which of the following are not methods of a

System.Windows.Forms.Form object?

A. Activate()

B. Deactive()

C. Form()

D. OnCreate()

Answer: Deactive()

14. Which of the following are not events of a

System.Windows.Forms.Control?

A. KeyPress

B. KeyDown

C. MousePress

D. MouseMove

E. MouseEnter

Answer: MousePress

15. In which namespace would you find the class Application?

A. System.Application

B. System

C. System.Window.Forms

D. System.Windows.Forms

Answer: Windows.Forms

1. If you want to ask the user to select between two or more mutually exclusive

options, you would employ which of the following controls?

A. TabControl

B. Button

C. RadioButton

D. CheckBox

Answer: RadioButton

2. The following piece of code is intended to create a new TabPage in a

TabControl. What will happen when you try to run this code?

TabPage tpMyNewTabPage = new TabPage();

tpMyNewTabPage.Caption = "Add Students";

tpMyNewTabPage.Size = new System.Drawing.Size (536, 398);

Button b = new Button();

tpMyNewTabPage.Controls.Add (b);

A. The program compiles and executes properly.

B. The program compiles and causes a runtime error.

C. The program does not compile because it is unable to add the button.

D. The program does not compile because of a syntax error.

Answer: syntax error.

3. The following piece of code is intended to create a new TabPage in a

TabControl. What will happen when you try to run this code?

TabPage tpMyNewTabPage = new TabPage();

tpMyNewTabPage.Text = "Add Students";

tpMyNewTabPage.Size = new System.Drawing.Size (536, 398);

Button b = new Button();

tpMyNewTabPage.Controls.Add (b);

A. The program compiles and executes properly.

B. The program compiles but the tab page does not show.

C. The program compiles and causes a runtime error.

D. The program does not compile because of a syntax error.

Answer: does not show.

4. You want to validate the user input that is retrieved in a text box. Which control

will assist you in displaying the error message without moving off the form?

A. RichTextBox

B. NotifyIcon

C. HelpProvider

D. ErrorProvider

Answer: ErrorProvider

5. You want to validate the user input that is retrieved in a text box. Which event

will assist you in the validation of the data?

A. UponValidation

B. Validation

C. Validating

D. OnValidation

Answer: Validating

6. Which of the following lines of code will produce a message box for the user?

A. MessageDialogBox.Show ("This is your message");

B. MessageDialogBox.Show ("Message", "This is your message");

C. MessageBox.Show ("This is your message);

D. MessageBox.Show ("Message", "This is your message");

Answer: MessageBox.Show

7. To dynamically add a context menu to your application, which section of code

should be used?

A. MenuItem m = new MenuItem();

contextMenu1.MenuItems.Add (m);

B. MenuItem m = new MenuItem();

contextMenu1.MenuItem.Add (m);

C. MainMenu m = new MainMenu();

contextMenu1.MenuItems.Add (m);

D. MainMenu m = new MainMenu();

contextMenu1.MenuItem.Add (m);

Answer: .MenuItems.

8. To produce a dialog box similar to the Windows Print dialog box, which of the

following controls would you use?

A. PrintPreviewDialog

B. PrintDialog

C. PrintBox

D. SetupPrintDialog

Answer: PrintDialog

9. Which property of the CheckedListBox allows you to preset the maximum

number of items that can be selected?

A. MaxItems

B. MaximumItems

C. SelectionItems

D. SelectionMode

Answer: SelectionMode

10. What is wrong with the following piece of code? Assume no other code has

been written and you are creating the status bar dynamically.

this.sbMyStatusBar.Panels[1].Text = "Panel 1";

this.sbMyStatusBar.Panels[2].Text = "Panel 2";

this.sbMyStatusBar.Panels[3].Text = "Panel 3";

A. Nothing is wrong with the code.

B. It will cause a runtime error.

C. There will be a syntax error found.

D. The Text property is incorrect for a StatusBar.

Answer: It will cause a runtime error.

11. Which line of code must be added in order to show a StatusBar?

A. sbMyStatusBar.Show();

B. sbMyStatusBar.Display();

C. sbMyStatusBar.Show = true;

D. sbMyStatusBar.Display = true;

Answer: Show = true;

12. Which line of code will set the Link data for a LinkLabel?

A. this.linkLabel1.Text = "http:\\www.microsoft.com";

B. this.linkLabel1.Link = "http://www.microsoft.com";

C. this.linkLabel1.HyperLink = "http://www.microsoft.com';

D. None of the above.

Answer: None of the above.

14. Which property will allow the user to enter more than one line in a text box?

A. MaxLines

B. MultipleLines

C. MultiLines

D. MultiLine

Answer: MultiLine

15. Which control would you use to group a lot of controls together?

A. GroupControl

B. GroupBox

C. FrameControl

D. FrameBox

Answer: GroupBox

1. Which code segment will populate a DataSet?

A. sqlDataProvider1.Fill (dsUsers1);

B. sqlDataProvider.Fill (dataAdapter1);

C. sqlDataAdapter.Fill (dsUsers1);

D. sqlDataAdapter.Fill (dataAdapter1);

Answer: Adapter (dsUsers1);

2. What type of commands can you create?

A. Text, stored procedures, and tables.

B. Text, stored procedures, and TableRows.

C. Text, stored procedures, and TableDirect.

D. Text, stored procedures, and TableColumns.

Answer: TableDirect.

3. Data access exceptions all derive from which base class?

A. Sql.Data.Exceptions

B. Sql.SqlDataExceptions

C. Exception

D. DataException

Answer: DataException

4. You need to get access to a database that is stored on a server running

Microsoft Access 2002. Which data adapter would you use?

A. SqlDataAdapter

B. OleDbDataAdapter

C. OleDataAdapter

D. ODBCDataAdapter

Answer: OleDbDataAdapter

5. You need to get access to a database that is stored on a server running

Microsoft SQL Server 2000. Which data adapter would you use?

A. SqlDataAdapter

B. OleDbDataAdapter

C. OleDataAdapter

D. ODBCDataAdapter

Answer: SqlDataAdapter

6. You want to return XML data from a Microsoft SQL Server 7.0 database.

Which method would you execute?

A. ExecuteXmlReader()

B. ExecuteXmlData()

C. ExecuteOleReader()

D. ExecuteOldData()

Answer: ExecuteXmlReader()

7. The Parse event is triggered after which of these occurrences?

A. Data is sorted.

B. Data is filtered.

C. Data is bound to a control.

D. Data is returned to the data source.

E. All of the above.

F. None of the above.

Answer: returned to the data source.

8. The Format event is triggered after which occurrences?

A. Data is sorted.

B. Data is filtered.

C. Data is bound to a control.

D. Data is returned to the data source.

E. All of the above.

F. None of the above.

Answer: All of the above.

12. Which of the following object types allow you to view read-only,

forward-only data?

A. DataAdapter

B. DataSet

C. DataReader

D. DataCommand

Answer: DataReader

13. Which of the following statements is correct?

A. The DataSource property refers to the dataset object, and the

DisplayMember refers to the field.

B. The DataMember property refers to the dataset object, and the

DataSource refers to the field.

C. The DataMember property refers to the field, and the DataSource

refers to the dataset object.

D. The DisplayMember property refers to the dataset object, and the

DataSource refers to the field.

Answer: DataSource

14. Why does the data not display using the following code?

studentConnection.Open();

studentCommand = studentConnection.CreateCommand();

studentCommand.CommandType = CommandType.Text;

studentCommand.CommandText = "SELECT \* FROM Student";

studentAdapter = new SqlDataAdapter (studentCommand);

studentSet = new DataSet();

this.txtFirstName.DataBindings.Add ("Text", studentSet, "FirstName");

A. The command object is instantiated incorrectly.

B. The dataset object is instantiated incorrectly.

C. The data binding is done incorrectly.

D. The dataset has not been populated.

Answer: has not been populated.

1. Where should a web service proxy file be located?

A. In the \bin directory of My Documents.

B. In the \lib directory of the application.

C. In the \bin directory of the application.

D. In the \lib directory of My Documents.

Answer: \bin application.

3. Which command-line tool will create a web service proxy?

A. isdlam.exe

B. ildasm.exe

C. tlbimp.exe

D. wsdl.exe

Answer: wsdl.exe

4. Which command-line tool will allow you to view an assembly?

A. isdlam.exe

B. ildasm.exe

C. tlbimp.exe

D. wsdl.exe

Answer: ildasm.exe

5. Which command-line tool will generate the proxy for a COM component?

A. isdlam.exe

B. ildasm.exeC. tlbimp.exe

D. wsdl.exe

Answer: wsdl.exe

6. Which of the following will display the Web Services on a remote IIS server

(named www.hmr.com) in an assembly called MyServices?

A. http://hmr.com/MyServices/ServiceName

B. http://www.hmr.com/MyServices/ServiceName

C. url://hmr.com/MyServices/ServiceName

D. url://www.hmr.com/MyServices/ServiceName

Answer: http://www

8. What must be done to be ready to consume a web service?

A. Build a proxy library using wsdl.exe.

B. Build a proxy library using csc.exe.

C. Build a proxy library using TblImp.exe.

D. Build a proxy library using pl.exe.

Answer: wsdl.exe.

11. Which namespace is added to a program that calls a web service?

A. using System.WebServices;

B. using System.Web.Services;

C. using System.Web.Services.List;

D. using System.Web.Services.All;

Answer: Web.Services;

12. Which URL will provide access to the web service called MyWebService,

located in the WebServices web on the local machine?

A. http://localhost/MyWebService/WebServices.asmx?WSDL

B. http://localhost/WebServices/WebServices.asmx?WSDL

C. http://localhost/MyWebService/MyWebService.asmx?WSDL

D. http://localhost/WebServices/MyWebService.asmx?WSDL

Answer: ices/MyWebS

13. A discovery file used to locate Web Services would have which extension?

A. .discovery

B. .discover

C. .vdisco

D. .disco

Answer: .vdisco

14. When you test a web service, what do you expect to see as output?

A. The web service running.

B. The web site.

C. The XML of the web proxy.

D. The XML of the web service.

Answer: web proxy.

15. Which attribute must be added to create an exposed web service method?

A. [System.WebServices.WebMethod]

B. [System.Web.Services]

C. [System.Web.Services.Web.WebMethod]

D. [System.Web.Services.WebMethod]

Answer: Services.WebMethod]

1. Which file must be included in the assembly in order to provide a list of

licensed controls within the application?

A. xxxx.LIC

B. xxxx.LCX

C. xxxx.LICX

D. xxxx.Licenses

Answer: xxxx.LICX

2. You are planning to create a new control that will be used in place of the

Button control. The new control will blink and change color whenever the

user moves the mouse over the control. Which control type would you use?

A. Derived control from the Button class.

B. Derived control from the Control class.

C. Derived control from the UserControl class.

D. Customized control using GDI+.

Answer: Button class.

1. Which tool allows you to install an assembly into the GAC?

A. Ngen.exe

B. Mscorcfg.msc

C. Setup.exe

D. sn.exe

Answer: Ngen.exe

2. Which of the following accurately describes a strong named assembly?

A. A private assembly with a unique name within an application domain.

B. A private assembly with a unique name within a global domain.

C. A shared assembly with a unique name within an application domain.

D. A shared assembly with a unique name within a global domain.

Answer: private global

3. Which template must be chosen from the Add New Project dialog box’s

Templates list in order to have an application downloaded from an IIS

(Internet Information Server) server?

A. Windows Setup Project.

B. CAB Project.

C. IIS Project.

D. Web Setup Project.

Answer: Web Setup Project.

4. You have followed the steps in creating a Windows Installer Setup project, and

after deployment you notice that it does not install properly on the client.

Which of the following could be the problem?

A. You forgot to run the sn.exe utility.

B. The shortcut was not configured properly.

C. The release type is set to Debug.

D. The Registry entry is incorrect.

Answer: The release type is set to Debug.

5. Why did Microsoft invent assemblies?

A. To allow applications to take care of their own components.

B. To speed up processing.

C. To confuse developers studying for the .NET development exams.

D. To ensure that all components register properly in the Registry.

Answer: To allow applications to take care of their own components.

7. What can be configured using the .NET Configuration tool?

A. GAC cache.

B. Assemblies.

C. Security.

D. Policy levels.

E. All of the above.

F. None of the above.

Answer: All of the above.

8. Which of the following command-line entries would allow you to install an

assembly into the GAC?

A. gacutil /l myAssembly.exe

B. gacutil /i myAssembly.exe

C. gacutil /s myAssembly.exe

D. gacutil /h myAssembly.exe

Answer: Ngen.exe /cache

9. Which command would you use to list the existing files in the native image

cache?

A. Ngen.exe /list

B. Ngen.exe /cache

C. Ngen.exe /debug

D. Ngen.exe /show

Answer: Ngen.exe /show

11. If the redistributable package is to be installed on a server, what must be in place?

A. .NET Framework

B. SQL Server

C. MDAC 2.6

D. CLR

Answer: MDAC 2.6

12. Why is the Setup project name important?

A. Setup looks for files under that name.

B. It is the name in the Add/Remove Programs dialog box.

C. There cannot be any spaces in the name.

D. The name goes in the Registry.

Answer: It is the name in the Add/Remove Programs dialog box.

14. Which line must exist in the AssemblyInfo.cs file in order to “sign”

the assembly?

A. [assembly: AssemblyKeyFile("")]

B. [key: AssemblyKeyFile("")]

C. [assembly: AssemblyKeyFile("myKeys.snk")]

D. [key: AssemblyKeyFile("myKeys.snk")]

Answer: assembly myKeys.snk

15. Where is the GAC located by default?

A. Windows directory.

B. Programs directory.

C. Documents and Settings directory.

D. Application directory.

Answer: Windows directory.

1. You are responsible for adding localization to an existing Windows Form.

What class will determine the locale of the runtime environment?

A. ResourceManager

B. Localization

C. Globalization

D. CurrentUICulture

Answer: CurrentUICulture

2. Which tool can you use to configure the security settings for an application?

A. mscorcfg.msc

B. ngen.exe

C. caspol.exe

D. caspol.msc

Answer: mscorcfg.msc

3. Which tool can you use to precompile a Windows application?

A. mscorcfg.msc

B. ngen.exe

C. caspol.exe

D. caspol.msc

Answer: ngen.exe

4. Which security file will override the machine configuration file?

A. Enterprise configuration

B. Application configuration

C. Security configuration

D. User configuration

Answer: Application configuration

9. What are the three different policy-configuration files?

A. Enterprise, Machine, User.

B. Enterprise, Machine, Local.

C. Enterprise, Security, Local.

D. Enterprise, Security, User.

Answer: Ent Mac User.

11. What type of array is the most efficient to work with?

A. Rectangular array

B. One-dimensional array

C. Two-dimensional array

D. Jagged array

Answer: Jagged array

12. Which code-access class can be used to represent permissions related to

network access?

A. NetworkPermission

B. RemotePermission

C. URLPermission

D. SocketPermission

Answer: SocketPermission

13. Which of the following represents a union of permissions?

A. A collection of code groups.

B. A collection of permissions.

C. A collection of intersections.

D. A collection of evidence.

Answer: code groups.

15. What must be done to create a ToolTip on a new Windows control?

A. Add a ToolTip control and set the ToolTip property of the new control.

B. Set the ToolTip property of the new control.

C. Set the Help property of the new control.

D. Create a MessageBox that displays when the user clicks the new control.

Answer: Create a MessageBox

3. Which namespace must be added to the XML web service in order to write to

an event log?

A. System.EventLog

B. System.Events

C. System.Diagnostics

D. System.Diagnostics.Event

Answer: Diagnostics

4. Which technology allows you to publish XML web services?

A. XMLPub

B. XSLT

C. XPath

D. UDDI

Answer: UDDI

6. Which of the following describes the elements that make up a SOAP message?

A. Envelope, Header, Body, Fault.

B. Envelope, Header, Body, Error.

C. Envelope, Body, Fault.

D. Envelope, Header, Fault.

Answer: En He Bo Fa

7. Which of the following technologies are used to describe a web service in terms

of the messages that it creates and the messages that it accepts?

A. XMLS

B. XSLT

C. CORBA

D. WSDL

Answer: WSDL

8. What is the default namespace for a new web service?

A. http://localhost

B. http://www.w3.org

C. http://tempuri.org/

D. http://www.microsoft.com

Answer: tempuri.org/

10. How would you add a web service component to your Visual Studio .NET

application?

A. Project | Add Web Component

B. Project | Add Component

C. Project | Add Web Service

D. Project | Add Service

Answer: Add Service

11. A static discovery file will usually have a file extension of which of the

following?

A. .vsdisco

B. .vdisco

C. .sdisco

D. .disco

Answer: .disco

12. Which of the following technologies is a lightweight protocol for exchange of

information in a decentralized, distributed environment?

A. XML

B. WSDL

C. XSD

D. SOAP

Answer: SOAP

13. Which of the following technologies is a file that defines the structure and

data types for XML documents?

A. XSD

B. XMLD

C. XSLT

D. XSL

Answer: XSL

14. You are creating an application that will employ the services of an application

that resides on a remote server. Which of the following protocols should be

used to encode the message to the remote server?

A. SOAP

B. XML

C. RPC

D. DCOM

Answer: SOAP

15. A WSDL document is a file that contains definitions for which of the following?

A. Types, Messages, Bindings.

B. Types, Messages, portTypes, bindings, services.

C. Types, portTypes, bindings, services.

D. Messages, portTypes, bindings, services.

Answer: Ty Me po bi se

2.You are creating a Windows service for Windows ME. You want to install the

service in the Registry. What utility will do this for you?

A. gacutil.exe

B. regsvsc.exe

C. sc.exe

D. installer.exe

E. None of the above.

Answer: None of the above.

3. Which project template will allow you to create a background service in

Visual Studio .NET?

A. Windows service.

B. Web service.

C. Windows application.

D. Service.

Answer: Windows service.

5. You have created a serviced component that will interface with COM+ services.

You want to register the component manually. Which utility will allow you

to do this?

A. gacutil.exe

B. regsvsc.exe

C. install.exe

D. sc.exe

Answer: regsvsc.exe

6. You have created a serviced component that will interface with COM+ services.

You want to register the component automatically. Which utility will allow you

to do this?

A. gacutil.exe

B. regsvsc.exe

C. xcopy.exe

D. sc.exe

Answer: xcopy.exe

8. Where would you find the Add Installer link within Visual Studio .NET?

A. Under the Project menu.

B. Under the Build menu.

C. In the Toolbox.

D. In the Properties Explorer window.

Answer: Explorer window.

9. Which of the following methods will install a Windows service? Choose all

that apply.

A. xcopy.exe

B. regedit.exe

C. setup.exe

D. service.exe

Answer: setup.exe

10. A Windows service must inherit from which class?

A. System.Service.ServiceBase

B. System.ServiceProcess.Service

C. System.ServiceProcess.ServiceBase

D. System.Service.Service

Answer: ServiceBase

11. Which Registry key would lead you to find the installed Windows service?

A. HKEY\_LOCAL\_MACHINE\Services

B. HKEY\_LOCAL\_MACHINE\System\CurrentControlSet\Services

C. HKEY\_LOCAL\_MACHINE\System\Services

D. HKEY\_LOCAL\_MACHINE\CurrentControlSet\Services

Answer: System\Curren

13. Which class will allow you to programmatically work with your Windows service?

A. ServiceController

B. ServiceConfiguration

C. ServiceStatus

D. ServiceControl

Answer: Controller

14. Which method of the ServiceController class will allow you to send

a command to the service?

A. Stop()

B. Start()

C. Pause()

D. ExecuteCommand()

Answer: ExecuteCommand()

15. Which of the following services represent the services that together provide

an enterprise application?

A. Business, Logic, Application

B. Application, Business, Data

C. Presentation, Business, Data

D. Presentation, Logic, Data

Answer: Pre Bu Data

2. In order to have your server component accept method calls that pass the

object by value, your remote server object must implement which interface?

A. IUnknown

B. IMarshalByValue

C. IMarshalByRef

D. ISingleCall

E. ISerializable

Answer: ISerializable

3. You are in charge of creating a remote object that will return database records

to the caller of the method. You want to ensure that the object keeps track of

the number of requests, and writes the number out to the database. Which

activation mode would you use?

A. SingleCall

B. Singleton

C. Client-activated

D. Server-activated

Answer: Singleton

4. You have created a remote object, ChatServer.dll, that is to be deployed to

an IIS server. You need to create a configuration file that will provide location

and type information. Which file would you create?

A. web.config

B. machine.config

C. application.config

D. ChatServer.exe.config

Answer: web.config

11. To which namespace does the Activator class belong?

A. System

B. System.Remoting

C. System.Remote

D. System.Remoting.Activation

Answer: System

13. To which namespace does the HttpChannel class belong?

A. System.Remoting

B. System.Runtime.Remoting.Channels.Http

C. System.Runtime.Remoting

D. System.Runtime.Remoting.Channels

Answer: Channels.Http

14. Which line of code will register a channel?

A. ChannelServices.Register (channel);

B. ChannelServices.RegisterChannel(4242);

C. ChannelServices.Register (4242);

D. ChannelServices.RegisterChannel(channel);

Answer: Channel(channel);

15. In which directory does the <application\_name>.exe.config file belong?

A. In the bin directory of the application.

B. In the root directory of the application.

C. In the \Winnt\System32 directory.

D. In the \Program Files\Microsoft.NET directory.

Answer: root directory

2. Your manager has asked you about interoperability between XML Web Services

and an existing CORBA environment. What wire protocol will you tell your

manager about that will interoperate with CORBA?

A. RPC

B. COM+

C. SOAP

D. DCOM

Answer: SOAP

3. When discussing the XML Web Services architecture, which sentence best

describes the service broker node?

A. Broadcasts the available services.

B. Advertises the available services in Active Directory.

C. Advertises the services that are registered in the Registry.

D. Assists the consumer to find the provider that supplies a particular

web service.

Answer: consumer

5. You want to ensure that your web method uses the cache for results, so you

change the web method attribute to [WebMethod(BufferResponse =

true)]. When you investigate, you find that your web method still is not

using the cache. What is the most efficient way of ensuring that your web

method uses the cache?

A. Add CacheTime=300 to the WebMethod attribute.

B. Add Cache=true to the WebMethod attribute.

C. Add EnableCache=true to the WebMethod attribute.

D. Add CacheDuration=300 as a parameter to the WebMethod attribute.

Answer: parameter to t

6. What is the name of the root element in a WSDL document?

A. definition

B. wsdl\_root

C. xml\_root

D. root

Answer: definition

8. What sentence best describes loosely coupled components?

A. Both components use a common event model to communicate.

B. Both components use public variables and methods to communicate.

C. Both components use only public methods to communicate.

D. Both components use asynchronous methods to communicate.

Answer: asynchronous

9. You need to build a proxy class for an XML web service. What tool will you use?

Select all that apply.

A. cdc.exe

B. wsdl.exe

C. proxy.exe

D. disco.exe

Answer: wsdl.exe

10. When you create an XML web service, it is stored in a source file. What is the

extension of that source file?

A. .xmls

B. .asxm

C. .asmx

D. .asxml

Answer: .asmx

11. By adding the [WebService(Namespace="http://xxx.yyy")] attribute

in front of the class that defines the XML web service, you modify a namespace.

What is that namespace?

A. The namespace of the XML web service.

B. The default namespace of the SOAP messages.

C. The namespace of the ASP.NET server.

D. The default URL that all redirections will go to.

Answer: XML web service.

12. By setting the EnableSession property to True, you have access to what

resources?

A. Nothing. You need to create the session first.

B. Session variables.

C. Application variables.

D. Local variables stored in the Web Method session.

Answer: Session variables.

13. The XML Web service broker stores information about the XML web services

that have published their services to the broker. What structure does the service

broker store the information in?

A. Broker registry.

B. Windows Registry.

C. UDDI registry.

D. XML document.

Answer: UDDI registry.

14. True or false? XML documents contain the data model of the data they contain.

A. True

B. False

Answer: True

15. After creating a proxy class, you compile it. What type of file will the proxy be

compiled to?

A. .dll

B. .asmx

C. .aspx

D. .proxy

Answer: .dll

1. What namespace must be used in order to use the DOM for XML support?

A. System.Data.Xml

B. System.Xml

C. System.Xml.DOM

D. System.DOM

Answer: System.Xml

4. True or False. XML Transformations can be used to create a form letter.

A. True.

B. False.

Answer: False.

6. You are parsing an XML document using an XmlReader. You find that the

resulting node tree is very large compared to the number of elements and

attributes in the XML document. Why would the result of the parsing produce a

large node tree?

A. The WhitespaceHandling parameter is set to WhitespaceHandling.All.

B. The WhitespaceHandling parameter is set to WhitespaceHandling.None.

C. The WhitespaceHandling parameter is set to WhitespaceHandling.Auto.

D. The WhitespaceHandling parameter is set to WhitespaceHandling.Special.

Answer: .All.

7. Which of the following classes supports XML schemas? Select all that apply.

A. XmlReader

B. XmlDocument

C. XmlValidatingReader

D. XmlNodeReader

Answer: ValidatingReader

8. You are developing an application that will connect to a Microsoft SQL Server

6.5, and you need to select the appropriate ADO.NET connection object for this

database server. What ADO.NET connection object is the most appropriate?

A. XxxConnection

B. SqlConnection

C. OleDbConnection

D. OdbcConnection

Answer: OleDbConnection

14. When you build the schema of a DataSet, you need to model the data types

of the data that will reside in the DataColumn objects. What data type would

you use to represent a date?

A. date

B. day

C. System.DateTime

D. variant

Answer: DateTime

15. True or False. HTML must be well formed to be used with XML.

A. True.

B. False.

Answer: True.

1. You need to create a UDDI registry for your company. What are your options

regarding private UDDI registries?

A. Use the Private UDDI SDK from Microsoft.

B. Implement your own private UDDI registry by implementing the entire UDDI

specification.

C. Implement a custom publish/discover architecture.

D. Hard-code the endpoints.

Answer: UDDI registry

1.To quit a c# application the following should be used

a.Application.Exit();

b.System.Environment.Exit(0)

c.System.Environment.Exit(1) (Your selection was wrong)

d.All Of The Above

Answer: d.All Of The Above

2.The c# keyword ‘float’ maps to which .NET type?

Answer: System.Single

3.Which of these string definitions will prevent escaping on backslashes in c#?

Answer: String s=@”\teststring”;

4.Which of the following statements correctly declares a 2 dimensional array in c#?

Answer: int[,] myarray;

5.The c# keyword ‘int’ maps to which .NET type?

Answer: System.Int32

6.dual main is possible

Answer: yes

7.Is the anonymous properties are beneficial than normal properties in C#3.0 ?

Answer: No

8.Which of this is true about "params int[] arr" ?

Answer: params should be the last parameter passed to a function

9.Which among this is a valid Method of File Class ?

Answer: ReadAllBytes()

10.FileInfo.OpenText() return a

Answer: Streamreader

11.What is the use of ?? operator

Answer: Used to assign value to a nullable type

12.What is the syntax for creating a nullable type ?

Answer: char? nChar = 'J';

13.Ildasm.exe used for?

Answer: MSIL code to Text File

14.What does the Initial Catalog parameter define in the connection string?

Answer: Database name

15.What’s the .NET collection class that allows an element to be accessed using a unique key?

Answer: HashTable

16.Can you store multiple data types in System.Array?

Answer: No

17.How can you clean up objects holding resources from within the code?

Answer: Call Dispose Method

18.Which controls do not have events?

Answer: TimerControl

19.Is String is Value Type or Reference Type in C#?

Answer: Value Type

20.I have two contructor one is Static Constructor and another one is Public Constructor,Which one is Call first

Answer: Static Constructor

21.Method Overloading and Overriding are the same.

Answer: False

22.Which of the following is a correct call to the Main() function

Answer: static void Main()

23.A local C# variable declared in the for loop is in scope within

Answer: Body of the for loop

24.Interfaces provide implementation of methods

Answer: False

25.Operators cannot be overloaded?

Answer: &&

26.Events are associated with

Answer: Delegates

27.Indexers are associated with

Answer: Properties

28.What is meant by Boxing?

Answer: Valuetype to Reference type

29.The Content of Assembly is viewed by using

Answer: ILDASM.exe

30.Which of the following isn't a dictionary classes?

Answer: Queue

31.Which one of below collections class uses LIFO(last in first out )?

Answer: Stack

32.Which one of below collections class uses FIFO(first in first out )?

Answer: Queue

33.Which is the correct way to define a delegate ?

Answer: public delegate int Calculate(int Basic, int Da,int PF);

34.Versioning is applicable for private assemblies

Answer: No

35.Which of the following is true for Structure

Answer: Structures do not require constructors

36.What is true for class and structure?

Answer: Class use heap and structure use stack

37.Is it possible to have different access modifiers on the get/set methods of a property

Answer: No

38.Which keyword is invalid when it is used with parameters variables sent to a method ?

Answer: param

39.Which of these datatypes are not CLS Compliant ?

Answer: sbyte

40.Which of these options are not a member of System.Console Class

Answer: TitleText

41.Can notepad be used to create .NET Programs ?

Answer: Yes

42.For the C# Compiler csc.exe, which option is the default output type among the given Output options ?

Answer: /target:exe

43.What line of code should be used to instruct the C# compiler to check code for CLS compliance using .NET attribute ?

Answer: [assembly: System.CLSCmpliant(true)]

44.What is the entry point of Thread?

Answer: run method

45.How many objects will be created in this case

Answer: one

46.What data type RangeValidator control does not support?What data type RangeValidator control does not support?

Answer: Double

47.Which is not the keyword in c# language?

Answer: boolean

48.What does WSDL stand for ?

Answer: Web Services Description Language

49.Operator OverLoading In C#

Answer: &&

50.class X

{

public void C() { Console.WriteLine("X.C"); }

public virtual void D() { Console.WriteLine("X.D"); }

}

class Y: X

{

new public void C() { Console.WriteLine("Y.C"); }

public override void D() { Console.WriteLine("Y.D"); }

}

class Test

{

static void Main()

{

Y y = new Y();

X x = y;

x.C();

y.C();

x.D();

y.D();

}

}

Answer: X.C, Y.C, Y.D ,Y.D

51.Which keyword is used to call the base class constructor in C#?

Answer: base

52.What is the name of C# command line compiler?

Answer: csc.exe

53.In inheritance, when a class inherit another class they can inherit private method of base class?

Answer: Yes

54.Which access modifer use in method of Interface?

Answer: None

55.Which is true for the Destructors?

Answer: All of the above

56.So as to make Multipple Inheritance possible in .NET which conecpt we use?

Answer: Interface

57.Which of the following is not a reference type?

Answer: struct types

58.Using which keyword we will be able to call base class functionality

Answer: base

59.How can we prevent a class fromgetting Instantiating

Answer: Both

60.Is it Possible to create constructor in an abstract class?

Answer: Yes,but only concrete constructor

61.A class type in c# is a value type

Answer: no

62.How to retrive Thried highest salery from salery table?

Answer: SELECT MIN (SAL) FROM SALERY WHERE SAL IN (SELECT TOP 3 SAL FROM SALERY ORDER BY SAL DESC)

63.We need to register a private assembly in windows registry in order to use it (True/False)

Answer: False

64.In c# a technique used to stream the data is known as

Answer: Serialization

65.To change the variable while debugging, the following window is used?

Answer: Immediate window

66.How to deploy an assembly?

Answer: All The Above

67.In a multilevel hierarchy how r constructors called

Answer: Top down

68.Bool data type in c# is

Answer: Value type

69.To write a line of text to console window ,we make following call

Answer: both

70.To read user input from console, we make following call

Answer: both

1)test is a Random object, then what expression will return a value between 0 and 100?

Next.test(100)

test.Next(100)

test(0,100)

test(Next(100))

Answer: test.Next(100)

2)To determine the number of dimensions of an array at runtime, which one of the following properties do you use?

LastIndex

UnBound

Size

Rank

Length

Answer: Rank

3)What is the exception that is thrown when there is an attempt to dynamically access a method that does not exist?

MissingMethodException

TypeLoadException

MethodLoadException

MethodAccessException

Answer: MissingMethodException

4)Which one is not user defined data type?

Class

String

Struct

Enumerator

Answer: String

5)Can we have static indexer in C# ?

NO

YES

None

Answer: NO

6)Can two catch blocks be executed?

NO

YES

None

Answer: NO

7)Can we have different access modifiers on get/set

methods of a property ?

NO

YES

None

Answer: NO

8)If we inherit a class do the private variables also get inherited ?

Yes, the variables are inherited but can not be accessed directly by the class interface

Yes, the variables are inherited and also we canaccessed directly by the class interface

NO

NONE

Answer: Yes, the variables are inherited but can not be accessed directly by the class interface

9)Can we use events with threading ?

YES

NO

None

Answer: YES

10)Example for Daemon thread

Garbage collector.

WCF

WPF

NONE

Answer: Garbage collector

11)Object type collections are located in the whcih NameSpace?

System.Collections

System.Collections.Generic

None

Answer: System.Collections

12)Generic Collections are located in which Name-space?

System.Collections.Generic

System.Collections

System.OBJECT

NONE

Answer: System.Collections.Generic

13)Static datamembers should be initialized inside the constructor.

FALSE

TRUE

None

Answer: FALSE

14)Which method do you invoke on the DataAdapter control to load your generated dataset with data?

Read()

Fill()

Write()

CopyRow()

Answer: Fill()

15)Can you edit data in the Repeater control?

No

Yes

None

Answer: No

16)Whats the .NET collection class that allows an element to be accessed using a unique key?

Array

HashTable

Array List

int[]

Answer: HashTable

17)Will the finally block get executed if an exception has not occurred?

No

Yes

None

Answer: Yes

18)Can multiple catch blocks be executed for a single try statement?

No

Yes

None

Answer: No

19)Can you store multiple data types in System.Array?

Select Answer:

No

Yes

Int,String

Answer: No

20)What the top .NET class that everything is derived from?

System.Windows.Forms

System.Object

System.Collection

None

Char

Answer: System.Object

21)Does C# support multiple-inheritance?

No

Yes

None

Answer: No

22)Is it possible to have different access modifiers on the get/set methods of a property?

Yes

No

May Be

Can't Say

Answer: No

23)Do finally block get executed if the exception had not occurred?

Yes

No

May Be

Can't Say

Answer: Yes

24)Type of code security that protects system resources from unauthorized calls

Role-based Security

Code-based Security

both a and b

None of the above

Answer: Code-based Security

25)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ refers to formatting data based on locale.

Globalization

Localization

both a and b

None of the above

Answer: Globalization

26)Which of the following can't be used in our .NET application?

.Net assemblies

ActiveX control

COM type libraries

All of the above can be used

Answer: All of the above can be used

27)All control inherits either directly or indirectly from the base class control

Yes

No

May Be

Can't Say

Answer: Yes

28)We can add methods, fields and events to our control in the same way as we add member to a class

Yes

No

May Be

Can't Say

Answer: Yes

29)An inherited control from the existing one also inherits the visual representation of the base control

Yes

No

May Be

Can't Say

Answer: Yes

30)What are the basic techniques for creating a control?

Inheriting from an existing control

Inherit from UserControl

Inherit form Control

a and b

a,b and c

Answer: a,b and c

31)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ represents a drawing surface and provides methods for rendering to that drawing surface.

Graphic object

Pens object

Brushes object

Colors object

Answer: Graphic object

32)What does the keyword virtual mean in the method definition?

The method is public

The method can be derived

The method is static

The method can be over-ridden

Answer: The method can be over-ridden

33)Can you inherit multiple interfaces?

Yes

No

May Be

Can't Say

Answer: Yes

34)What is the .NET collection class that allows an element to be accessed using a unique key?

HashTable

ArrayList

ArrayList

Queue

Answer: HashTable

35)Can you store multiple data types in System.Array?

Yes

No

May Be

Can't Say

Answer: Yes

36)Different ways a method can be overloaded in C#.NET

Different parameter data types

Different number of parameters

Different order of parameters

All of the above

Answer: All of the above

37)The RangeValidator control supports the following data types

Integer only

Date, Integer and String

only string

Date and Integer

Answer: Date, Integer and String

38)Boxing in .Net allows the user to convert

a interger type to double

a reference type to a value type

a value type to a reference type

a double type to interger

Answer: a value type to a reference type

39)Difference between Convert.ToString() and ToString()

Convert.ToString() handle null values but ToString() don't

ToString() output as per format supplied

Convert.ToString() only handle null values

ToString() handle null values but Convert.ToString() don't

Answer: Convert.ToString() handle null values but ToString() don't

40)int keyword targets to which .Net type?

System.Int8

System.Int16

System.Int32

System.Int64

Answer: System.Int32

41)An Event has \_\_\_\_\_ as default return type

No return type for events

Double

Integer

String

Answer: No return type for events

42)What are the features of an abstract class?

It contain instance variables

It contain constructors

It may extend another class

all of the above

Answer: all of the above

43)Sealed Classes cannot be a base class.

True

False

May Be

Can't Say

Answer: True

44)Is there any errors in this -> EmployeeMgmt constructor: Public int EmployeeMgmt { emp\_id = 100; }

Return type

No errors

Formal parameters

Name

Answer: Return type

45)Two methods with the same name but with different parameters

Overloading

Loading

Multiplexing

Duplexing

Answer: Overloading

46)Feature of a local variable

It can be used anywhere in the program

It must accept a class

It must be declared within a method

It represent a class object

Answer: It must be declared within a method

47)A variable which is declared inside a method is called a\_\_\_\_\_\_\_\_variable

Serial

Local

Private

Static

Answer: Local

48)Which of the following Statement rethrows Exception

throw new System.Exception();

throw;

rethrow Exception();

rethrow;

Answer: throw;

49)All the C# programs must have the following statement

include System

using System

using DotNet

import System

ANswer: using System

50)How do you convert a string into an integer in .NET?

Int32.Parse(string)

Int64.Parse(string)

Int.Parse(string)

Int16.Parse(string)

none of these

Answer: Int32.Parse(string)

51)alternative of multiple inheritance in c#?

Interface

abstract class

static class

sealed class

Answer: Interface

52)which of the following is a C# keyword?

base

if

case

switch

all of the above

Answer: all of the above

53)Can I define my own exceptions?

Yes, as long as you follow the rule that exceptions derive from System.Exception. More specifically, MS recommend that user-defined exceptions inherit from System.ApplicationException (which is derived from System.Exception).

Only instances of the System.Exception classes, or classes derived from System.Exception. This is in sharp contrast with C++ where instances of almost any type can be thrown.

No

None

Answer: Yes, as long as you follow the rule that exceptions derive from System.Exception. More specifically, MS recommend that user-defined exceptions inherit from System.ApplicationException (which is derived from System.Exception).

54)Which object class methods can a derived class override?

All of them

Only the ToString method

The virtual methods

The static methods

Answer: The virtual methods

55)What is the difference between interface and abstract class

An abstract class may only contain incomplete methods

An interface may contain complete or incomplete methods

A class may inherit several interfaces, A class may inherit only one abstract class

A class implementing an abstract class has to implement all the methods of the abstract class, but the same is not required in the case of an interface

Answer: A class may inherit several interfaces, A class may inherit only one abstract class

56)Which construct is used to ensure that a certain section of code always runs whenever execution leaves a designated piece of code, whether due to an exception or not?

try/catch

try/finally

try/throw

catch/finally

Answer: try/finally

57)Are private class-level variables inherited?

No, because class is private.

Yes, but they are not accessible.

Yes, and you can access the variables.

Undeterminate.

Answer: Yes, but they are not accessible.

58)What does the parameter Initial Catalog define inside Connection String?

Password

User name

Database

Secuity

Answer: Database

59)which words combination is used to override method?

super,override

abstract,virtual

virtual,overload

virtual,override

Answer: virtual,override

60)int x = 42;

int s = 43;

x++;

x += –s;

Console.WriteLine(x);

2

85

42

45

Answer: 85

61)Which of the following is a value type, and not a reference type?

array

delegate

enum

class

Answer: enum

62)Which statement is the keyword ‘default’ normally used?

in a ‘switch’

in a ‘if’ – ‘else’

in a loop

in a foreach

Answer: in a ‘switch’

63)True or false: an instance of a derived class may be passed as an argument to a method that expects an instance of the base class.

True

False

True

False

Answer: True

64)Can an Abstract class be declared as sealed?

No

Yes

In certain situations

Can't Say

Answer: No

65)Which operator is used to allocate memory for an instance of a class, as well as to pass arguments to a constructor of that class?

new

delete

alloc

malloc

Answer: new

66)What happens to the input variable index in the following call:

int i = 20;

foo( ref i );

public void foo ( ref int i )

{

int j = 3;

i = j;

i += 10;

}

i is not changed

i is 20

i is 23

i is 13

Answer: i is 13

67)An array is a list of data items that \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

all have the same type

all have different names

all are integers

all are orignally set to ‘null’ (‘\0')

none of the above

Answer: all have the same type

68)which of the following is not a c# keyword?

struct

while

else

break

inheritance

Answer: inheritance

69)C# does not support?

multiple inheritance

interface

abstract

static

Answer: multiple inheritance

70)If a method is marked as protected internal who can access it?

Access is limited to the current assembly

Access is limited to the containing class or types derived from the containing class.

Access is limited to the containing type

Access is limited to the current assembly or types derived from the containing class.

Answer: Access is limited to the current assembly or types derived from the containing class.

71)what is the default access specifier for a Top-level Class, which are not nested into other Classes

public

private

protected

internal

Answer: internal

72)The following code will generate a compiler error.

string GetAgePhrase(int age)

{

if (age > 60) return “Senior”;

if (age > 40) return “Middle-aged”;

if (age > 20) return “Adult”;

if (age > 12) return “Teen-aged”;

if (age > 4) return “Toddler”;

}

Which of the following statements, inserted as the last line of the function, would solve the problem?

continue;

break;

return “Infant”;

return;

return 0;

Answer: return “Infant”;

73)Which of the following is not a C# keyword?

Implements

If

Private

Delegate

Answer: Implements

74)The statement that is used to replace multiple if statements is called

The switch & case statement

?: (ternary operator)

The nestedif statement

The #endif statement

Answer: The switch & case statement

75)Does C# support multiple-inheritance?

Yes

No

--

--

Answer: No

76)In HashTable,if it is readonly or fixed only ,if you provide values what happens?

ArgumentNullException

ArgumentException

Not SupportedException

Answer: Not SupportedException

77)What happens if you pass an element which already exists in HashTable?

ArgumentNullException

ArgumentException

Not SupportedException

Answer: ArgumentException

78)what happens if you pass null key for a HashTable?

ArgumentNullException

NotSupportedException

ArgumentException

Answer: ArgumentNullException

79)Does Console.WriteLine() stop printing if it encounters null character in the middle of string

yes

no

Can't say

ANswer: no

80)To iterate through the items of array we use

for loop

for each

Both 1 & 2

None of Above

Answer: Both 1 & 2

81)Arrays implements \_\_\_\_\_\_\_\_\_\_\_Interface

IEnumerable

IList

IDictonary

All Of The Above

Answer: IEnumerable

82)Arrays values are stored in Stack or Heap

stack

heap

Can't say

Answer: heap

83)Does c# supports Union?

yes

no

Can't say

Answer: no

84)Which operator is used for connecting a event with a procedure in c#

+=

=

both

None of these

Answer: +=

85)The equivalent Html control for the tag is

HtmlCheckBox

htmlnputCheckBox

HtmlCheck

CheckBox

Answer: htmlnputCheckBox

86)The equivalent HTML control for the tag is

HtmlInput

HtmlButton

HtmlPushButton

HtmlInputButton

Answer: HtmlInputButton

87)Static method can not be overriden.

true

false

Both

None of these

Answer: true

88)A structure in c# can be derived from one or more

class

interface

both

None of these

Answer: interface

89)Which one of the following statement is correct

string is immutable & StringBuilder is muttable

Both string & StringBuilder are muttable

string is mutable & StringBuilder is immuttable

None

Answer: string is immutable & StringBuilder is muttable

90)Which of the following is not a C# keyword?

delegate

if

implements

private

Answer: implements

91)what is difference between keyword const and static readonly

both supports only reference types

both supports reference types and value types

static read only supports reference types and value types

const supports reference types and value types

all are wrong

Answer: static read only supports reference types and value types

92)Can u allow classes to be inherited but prevent the method from being overridden

yes

no

Can't say

Answer: yes

93)Can u override private virtual methods?

no

yes

Can't say

Answer: no

94)Can u declare override method static while original method is non-static?

yes

no

Can't say

Answer: no

95)Does Main() in c# should be always to be public ?

no

yes

Can't say

Answer: yes

96)Is 'GoTo' statement supported in c#?

yes

no

Can't say

Answer: yes

97)can we create enumerated data-types in c#?

no

yes

Can't say

Answer: yes

98)what data-type should we use if u want an 8 -bit value that is signed?

byte

sbyte

int

long

Answer: sbyte

99)How will you choose between abstract class and interface?

When default implementation is required, abstract class will be used,else interface will be chosen.

To implement abstraction, abstract class should be used

For each interface, abstract class should be declared

NA

Answer: When default implementation is required, abstract class will be used,else interface will be chosen.

100)Which of the following causes theapplication Run method to end

A method

An event

The last line of code in the programe is reached

It never ends

Answer: An event

101)What method can be used to display a form

ShowDialog

ShowForm

Show

None

Answer: ShowDialog

102)Are member of the an interface declared as public private or protected?

yes

no

none of these

no

Answer: yes

103)Which of the following is the same as a base class?

Parent class

Derived Class

Child class

None of these

Answer: Parent class

104)Which of the following keyword is not used in exception?

try

catch

throws

throw

Answer: throws

105)Where within a class can an event be instantiated

either a proerty or a method

nor a property or a method

both a property or a method

a proerty

Answer: either a proerty or a method

106)Can you declare the main method as private

yes

no

other

no

Answer: yes

107)How many interface can be inherited at a time?

many

zero

many or zero

one

Answer: many or zero

01.What extension you use for your c#

.c#

.c

.css

.cs

Answer: .cs

02.what is the output?

Gives error

Compiles but not executes

from parentparent from parentchild from childchild

None of Above

Answer: from parentparent from parentchild from childchild

03.No of integral data types in c# 2.0

9

6

8

7

Answer: 9

04.Which of the following is not a keyword in c#

protect

abstract

private

public

Answer: protect

05.What is the output?

100 10

100 9000

100 0

None of Above

Answer: 100 10

06.Is delegate a type safe function pointer

yes

no

Can't say

Answer: yes

07.can we run ASP.NET 1.1 application and ASP.NET 2.0 application on same computer

no

yes

CAB archeive

Answer: yes

08.can we use break statement in finally block

yes

no

Can't say

Answer: no

09.what is the implicit name of parameter that GETS passed into class

Value

Variable

Constant

None of Above

Answer: Value

10.Inorder to use StringBuilder in class we need to refer

System.String

System.Text

Both 1 & 2

None

Answer: System.Text

11.which tool is used to browse classes structs ,interfaces etc in BCL

wincv

Immediatewindow

callstackwindow

None of Above

Answer: wincv

12.How do you refer parent class in c#

this

base

mybase

None of Above

Answer: base

13.The following is a correct call to Main() function in c#

public static void Main(string [] args)

public static void main(String args[])

Both 1 & 2

None of Above

Answer: public static void Main(string [] args)

14.All the variables local to a method in c# must be initialized?

Yes

No

Can't say

Answer: Yes

15.Does Structs and Classes support Inheritance

Structs supports Inheritence

Classes supports Inheritence

Both 1 & 2

None of Above

Answer: Classes supports Inheritence

16.Which of the following are predefined reference types in c#?

Object

Class

Interface

Both 2 & 3

Both 1 & 2

Answer: Both 1 & 2

17.What is the property of XML

Case sensitive

Root element is neccessry

opening and closing tag is neccessary

Can store Huge data

All of the above

Answer: All of the above

18.How can you call Garbage Collector?

gc.invoke()

gc.cal()

gc,collect()

gc.run()

Answer: gc,collect()

19.Which keword is used to implement shadowing in C#

new KEWWORD IN BASE CALSS

shadow KEWWORD IN BASE CLASS

new KEWWORD IN DERIVED CLASS

shadow KEWWORD IN DERIVED CLASS

CAN NNOT BE IMPLEMENTED

Answer: new KEWWORD IN DERIVED CLASS

20.Which Operator can not be overloaded?

Unary Operators

Binary Operators

Conditioal Operators

Logical Operators

Answer 3 and Answer 4

Answer: Conditioal Operators + Logical Operators

21.A Function Can Be Over loaded on the basis of :

Type of Parameters

Sequence of Parameter

Return type

Number of parameter

All of the above

Answer: All of the above

22.What is boxing?

Encapsulating an object in a value type.

Encapsulating a copy of an object in a value type

Encapsulating a copy of an object in a value type

Encapsulating a copy of a value type in an object

Answer: Encapsulating a copy of a value type in an object

23.Which of these statements correctly declares a two-dimensional array in C#?

int[,] myArray;

int[][] myArray;

int[2] myArray;

System.Array[2] myArray;

Answer: int[,] myArray;

24.The C# keyword 'int' maps to which .NET type?

System.Int16

System.Int32

System.Int64

System.Int128

Answer: System.Int32

25.Is there an equivalent of exit() for quitting a C# .NET application?

No

Yes

I dont know

Answer: Yes

26.Is there regular expression (regex) support available to C# developers?

Yes

No

I dont know

Answer: Yes

27.Are private class-level variables inherited?

Yes

No

I dont know

Answer: Yes

28.Is it possible to have a static indexer in C#?

Yes

No

I dont know

Answer: No

29.Is it possible to inline assembly or IL in C# ?

No

Yes

I dont know

Answer: No

30.Which atribute is used to serialize a object

[Serializable]

[SettingsSerializeAs]

[TestFixture]

Answer: [Serializable]

31.Which Property of datagrid is used for Sorting

AllowSorting

AccessKey

AutoGenerateColumns

Answer: AllowSorting

32.Which property of datagrid is used for paging

AllowPaging

DataBind

DataKeyField

Answer: AllowPaging

33.ArrayList belongs to which Assembly

System.Collections

System.Data

System.Data.Net

Answer: System.Collections

34.which one is not true with class?

It is a reference type

it is stored in heap

It is a value type

It can be inherited

Answer: It is a value type

35.If There is no web.config file in an application then :

Program will not execute

Program can not compile

Program can execute but can not be debugged

It show runtime error

Answer: Program can execute but can not be debugged

36.Which one Method is not provided with dataset?

ReadXSLT()

ReadXML()

GetXML()

WriteXML()

Answer: ReadXSLT()

37.Which one is not part of Dataset ?

DataRow

DataColumn

DataRelation

DataView

DataConnection

Answer: DataConnection

38.Which one Support Connected Architecture?

DataReader

Data View

Dataset

Datalist

Answer: DataReader

39.Which one Support Disconnected Architecture?

DataList

DataReader

Dataset

Dataview

Answer: Dataset

40.The Example of Static Assembly is :

Interface

class

JPEG and Gif Files

All of the above

Answer: All of the above

41.Garbage Collector Responsible to free unreferenced objects of:

Managed Resources

UnManaged Resources

Both Answer1 and Answer 2

Can not say

Answer: Managed Resources

42.What is the order of calling destructor in multiple inheritance ?

Base class to derived class

Derived Class to Base class

Distructor can not be called

An error occured

Answer: Derived Class to Base class

43.What is the order of calling constructor in multiple inheritance when an object of derived class is created?

Derived to base class

Base class to Derived class

Constructor of Base class can be called

Contructor inheritance can not possible

Answer: Base class to Derived class

44.Which is not true with Master Page

Master Page can be added on Application Lavel

Master Page can be added on Page Lavel

Master Page can be added Folder Lavel

Master Page can be added control Lavel

Answer: Master Page can be added control Lavel

45.Which is not true for Custom Control ?

It is a .dll files

It can be added to tool box.

It Can be installed in GAC

It is added on every page

Answer: It is added on every page

46.Multiple Inheritance Can be implemented by:

Can Not Be implemented

Intefaces

Property

Events

Answer: Intefaces

47.Which one is not true with static constructor ?

Only One Static Cunstructor found in a class

It has no parameter

it can access static member of class

It Has no access modifiers

It can be overloaded

Answer: It can be overloaded

48.Which one is not correct with static class?

It contain only static members

It is sealed

it can not be instantiated

it has private constructor

Directly accessed by Other class

Answer: Directly accessed by Other class

49.An Interface can hold

Only Functions Without Definnitions

Only Properties Without Definnitions

Only Events Without Definnitions

All

Answer: All

50.Which namespaces in .NET has the data functionality class.

System.Net;

System.Data.SqlClient

System.data

System.Xml

Answer: System.data

51.Extension of a Master page in Asp.net

.asmx

.master

.cs

.ascx

.ashx

Answer: .master

52.Two methods with the same name but with different parameters?

Overloading

Loading

Multiplexing

Duplexing

Answer: Overloading

53.Feature of a local variable

It can be used anywhere in the program

It must accept a class

It must be declared within a method

It represent a class object

Answer: It must be declared within a method

54.A variable which is declared inside a method is called a\_\_\_\_\_\_\_\_variable?

Serial

Local

Private

Static

Answer: Local

55.The Default Type of enum is integer and has a default value 1

false

true

none of them

Answer: false

56.Boxing is used for

Converting Value Type To Reference Type

Converting Reference Type to Value Type

Converting Class to Struct Type

None of Above

Answer: Converting Value Type To Reference Type

57.What is the Default Access Specifier for a Top-Level Class,Which are not Nested into Other Classes

Public

Protected

Private

Internal

Answer: Internal

58.The Statement that is Used to Replace Multiple if Statements is Called

The Switch & Case Statement

?: (ternary Operator)

The nestedif Statement

The #endif Statement

Answer: The Switch & Case Statement

59.Can a dll run as stand alone application ?

Yes

No

By Adding some code

None of Above

Answer: No

60.Which of the following is not a member of ConnectionObject

BeginTransaction

EndTransaction

Execute

Open

Answer: Execute

61.Why doesn't C# support multiple inheritance?

Multiple implementation inheritance injects a lot of simplicity into the implementation

The number of places where MI is truly appropriate is actually quite large

The number of places where MI is truly appropriate is actually quite small

The number of places where MI is truly appropriate is actually quite small and Multiple implementation inheritance injects a lot of complexity into the implementation

Answer: The number of places where MI is truly appropriate is actually quite small and Multiple implementation inheritance injects a lot of complexity into the implementation

62.Does Abstract classes contain Constructor?

Yes

No

None

Answer: Yes

63.Connecting a event with a procedure in C# through which of the following operator

=

+=

both

None

Answer: +=

64.Is it possible that a Static method cannot be overridden

True

False

Can't say

.

Answer: True

65.XML documentation

C# compiler generating an XML documentation file from which below command

csc /doc:currentXml.xml currentXml.cs

csc /xml currentXml.cs

c /doc /docfile: currentXml.xml currentXml.cs

None

Answer: csc /doc:currentXml.xml currentXml.cs

66.Exception ahndling

An attempt to dynamically access a method that does not exist.Which Exception will be thorown

AccessException

LoadException

TypeLoadException

MissingMethodException

Answer: MissingMethodException

67.structure derived from

A structure in C# can be derived from one or more

interface

class

both

none

Answer: interface

68.How do you force post back using JavaScript?

IsPostBack

if (!IsPostBack)

\_\_doPostBack

Answer: \_\_doPostBack

69.Can you call SQL Trigger from ASP.NET application explicitly?

Yes

No

Don't Know

Answer: No

70.What is the Maximum and Minimum Size of the Int64

9,223,372,036,854,775,808 / 9,223,372,036,854,775,808

9,223,372,036,854,771,024 / 9,223,372,036,854,771,024

6,400,000,000,000,000,000 / 6,400,000,000,000,000,000

Answer: 9,223,372,036,854,775,808 / 9,223,372,036,854,775,808

71.What is Minimum and Maximum Size of Int32 ?

-3,200,102,400 / 3,200,102,448

-2,147,483,648 / 2,147,483,648

-3,200,000,000 / 3,200,000,000

Answer: -2,147,483,648 / 2,147,483,648

72.What is minimum and Maximum Size of Int16 ?

-32,256 / 32,256

-16,768 / 16,768

-32,768 / 32,768

-16,256 / 16,256

Answer: -32,768 / 32,768

73.What is the use of Partial Class ?

Reduction in file contention in shared development environments. The forms designer and the developer are not both trying to change the same file

Isolation of low-level details. You don't have to worry about the details of how the individual controls are instantiated and initialized

Protection for generated code through changes. You are less likely to change the generated code, and any code that you add will not be in the designer file and is protected.

All the above

Answer: All the above

74.How many constructors does a class have?

One

Two

Three

Many

Answer: Many

75.What debugging tools come with the .NET SDK?

CorDBG – command-line debugger

Dbg CLR – graphic debugger

Both A and B

None of the above

Answer: Both A and B

76.Is XML case-sensitive?

Yes

No

None of the above

Answer: Yes

77.Can you change the value of a variable while debugging a C# application?

Yes

No

None of the above

Answer: Yes

78.Can multiple catch blocks be executed?

Yes

No

None of the above

Answer: No

79.Does Abstract classes have constructor?

No

Yes

Not possible, because we cant create an object of abstract classes

Answer: Yes

80.What is the base class for the system element hierarchy ?

CIM\_LogicalElement

CIM\_ManagedSystemElement

Win32\_Process

Win32\_NetworkAdapter

Answer: CIM\_ManagedSystemElement

81.How can you get the ColumnName,DataType ColumnSize, IsKeyColumn,IsAutoIncrement of the table from the dataset.

GetSchemaTable method of the DataReader

Fill method of data adaptor

GetTableDetails method

Dataset.GetDataTable()

Answer: GetSchemaTable method of the DataReader

82.Main function

What are valid signatures for the Main function?

public static void Main()

public static int Main()

public static void Main( string[] args )

1 And 3

Above ALL

Answer: Above ALL

83.RCW

What is The Full FOrm of 'RCW' ..?

Run Callable Wrappers

Revised Code of Washington

Run time Callable Wrappers

Run time Callable Writer

Answer: Run time Callable Wrappers

84. To validate textbox for number

Which of the function is used to check textbox only contain number ?

char.IsDigit

char.IsLetter

char.IsNumber

char.IsLetterOrDigit

Answer: char.IsLetter

85.Separet time from datetime

Which function is used to time from datetime ?

Split

Remove

CompareTo

None

Answer: Split

86.What is an Object

A combination of message and data

A combination of namespace

A combination of task to be performed

A combination of Array

Answer: A combination of message and data

87.What is an Encapsulation

An action or occurrence such as click.

A package of one or more components together

A set of statement that performs specific task

A reference type variable

Answer: A package of one or more components together

88.The subscript number of an array starts from

0

1

-1

2

Answer: 0

89.Which Escape Character is used for New Line in Console

/n

\n

//n

\\n

Answer: \n

90.Which is true ?

1. There can be only one static constructor in the class.

2. The static constructor should be without parameters.

3. It can only access the static members of the class.

4. There should be no access modifier in static constructor definition.

1 & 2

2 & 3 & 4

1 & 3 & 4

All the above

Answer: All the above

91.Sort Elements

How can you sort the elements of the array in descending order?

System.Array.Clone()

By calling Sort() and then Reverse() methods.

By Calling Reverse()

By calling Sort()

Answer: By calling Sort() and then Reverse() methods.

92.what are the Activation modes for .NET Remoting

what are the Activation modes for .NET Remoting

Singleton

Singlecall

Both

None

Answer: Both

93.Code Access Security does which one of the following?

Defines permissions and permission sets that represent the right to access various system resources

Grants permissions to each assembly that is loaded, based on the permissions requested by the code

Enables code to demand that its callers have specific permissions

All of the above

Answer: All of the above

94.Which of the following tools manages certificates, certificate trust lists (CTLs), and certificate revocation lists (CRLs)?

sn.exe

certnet.exe

certmgr.exe

ctl.exe

Answer: certmgr.exe

95.Which one of the following .NET Framework tools displays details for failed assembly binds?

asm.exe

logvw.exe

logasm.exe

Fuslogvw.exe

Answer: Fuslogvw.exe

96.Which one of the following statement is true for Assembly's Manifest?

It loads the header file for the referenced assembly

Enumerates other independent assemblies.

Provides a level of indirection between consumers of the assembly and the assembly's implementation.

It loads the System Registry.

Answer: Provides a level of indirection between consumers of the assembly and the assembly's implementation.

97.What is the term for assemblies that are marked for a specific culture via their AssemblyCultureAttribute?

Sattellite assemblies

Cultured assemblies

Multilanguage assemblies

Global assemblies

Answer: Sattellite assemblies

98.Whats the difference between a Thread and a Process?

A process can have multiple threads in addition to the primary thread

A process is code that is to be serially executed within a thread

When a process begins to execute, it continues until it is killed or until it is interrupted by a process with higher priority

No Difference, they are so same thing

Answer: A process can have multiple threads in addition to the primary thread

99.Which of the following is Reference Type?

string

bool

int

ushort

Answer: string

Question

Marks:

Using System; sealed class MyClass { public int x; public int y; } class MyDerivedC : MyClass { } class MainClass { public static void Main() { MyClass mC = new MyClass(); mC.x = 110; mC.y = 150; Console.WriteLine("x = {0}, y = {1}", mC.x, mC.y); } } whats the obvious problem ?????????

Choose one answer.

a.x and y have not been initialized in the base class

b.The Console.WriteLine format is incorrect

c.sealed class needs an access modifier

d.Canot Inherit from Sealed Class

Answer: Canot Inherit from Sealed Class

Question

Marks:

What is the default value for the Method attribute in a ASP.NET server-side Form control?

Choose one answer.

a.Get

b.POST

c.SOAP

d.SMTP

Answer: Get

Question

Marks:

If a method is marked as protected internal who can access it?

Choose one answer.

a.Access is limited to the current assembly or types derived from the containing class.

b.Access is limited to the containing type

c.Access is limited to the containing class or types derived from the containing class

d.Access is limited to the current assembly

Answer: Access is limited to the current assembly or types derived from the containing class.

Question

Marks:

Which statement is true about interface and abstract classes

Choose one answer.

a.An interface may contain complete or incomplete methods

b.A class implementing an abstract class has to implement all the methods of the abstract class, but the same is not required in the case of an interface

c.A class may inherit several interfaces, A class can only inherit one abstract class

d.An abstract class may only contain incomplete methods (abstract methods)

e.All

Answer: A class may inherit several interfaces, A class can only inherit one abstract class

Question

Marks:

Static void Main(string[] args) { try { Console.WriteLine("Level 1"); try { Console.WriteLine("Level 2"); goto exit; } finally { Console.WriteLine("Level 2 Finished"); } } finally { Console.WriteLine("Level 1 Finished"); } exit: ; } What is the output?

Choose one answer.

a.Leve1,Level 2,Level 1 Finished

b.Level,Leve2,Leve 2 Finished

c.Level 1,Level 2,Leve 2 Finished,Level 1 Finished

d.error

Answer: Level 1,Level 2,Leve 2 Finished,Level 1 Finished

Question

Marks:

The following code will generate a compiler error. string GetAgePhrase(int age) { if (age > 50) return "JSuthahar"; if (age > 30) return "DotnetSpider"; if (age > 10) return "WebtekSolutions"; if (age > 9) return "Tradingbell"; if (age > 2) return "Suthahar"; } Which of the following statements, inserted as the last line of the function, would solve the problem?

Choose one answer.

a.Continue;

b.Break;

c.reture "Welcome";

d.return;

e.return 3;

Answer: reture "Welcome";

Question

Marks:

The statement that is used to replace multiple if statements is called

Choose one answer.

a.The switch & case statement

b.The #endif statement

c.?: (ternary operator)

d.The nestedif statement

Answer: The switch & case statement

Question

Marks:

Can you declare the override method static while the original method is non-static?

Choose one answer.

a.Yes

b.No

c.None

Answer: No

Question

Marks:

How do you sort a user defined class objects?

Choose one answer.

a.using IComparable interface

b.using sort method

c.not possible

d.both a and b

Answer: using IComparable interface

Question

Marks:

What cannot be declared in interfaces?

Choose one answer.

a.Enums

b.Properties

c.Variables

d.Indexers

Answer: Variables

Question

Marks:

Can we declare indexers as static?

Choose one answer.

a.Yes

b.No

c.Can't say

Answer: No

Question

Marks:

Can we have declare indexers as static?

Choose one answer.

a.Yes

b.No

c.Can't say

Answer: No

Question

Marks:

What is System.Int32?

Choose one answer.

a.class

b.struct

c.property

d.all

Answer: struct

Question

Marks:

Can the class be declared as private or protected?

Choose one answer.

a.Yes

b.No

c.Some time

Answer: No

Question

Marks:

Difference between Virtual method and Abstract method?

Choose one answer.

a.Virtual methods may or may not be overridden in the child class

b.Abstract methods must be overridden in the child class or else it must also be declared as abstract.

c.both 1 and 2

d.None of the above

Answer:both 1 and 2

Question

Marks:

Which utility is used to deploy an assembly in GAC?

Choose one answer.

a.GACUTIL.exe

b.csc

c.ngen.exe

d.none

Answer: GACUTIL.exe

Question

Marks:

Can two catch blocks be executed?

Choose one answer.

a.No

b.yes

c.We cant say

Answer: No

Question

Marks:

What is the use of ENUM ?

Choose one answer.

a.It's used to define constants

b.It's used to define private variables

c.It's used to define public variables

d.NONE

Answer: It's used to define constants

Question

Marks:

Does C# support multiple inheritance?

Choose one answer.

a.Yes

b.No

c.Some Time

Answer: No

Question

Marks:

Can you inherit multiple interfaces?

Choose one answer.

a.Yes. .NET does support multiple interfaces.

b.No. .NET does support multiple interfaces.

c.Some time

Answer: Yes. .NET does support multiple interfaces.

Question

Marks:

Will the finally block get executed if an exception has not occurred?

Choose one answer.

a.No

b.Yes

c.Maybe

Answer: Yes

Question

Marks:

How can you sort the elements of the array in descending order?

Choose one answer.

a.By calling Sort() and then Reverse() methods.

b.By calling Reverse() and then Sort() methods.

c.Both

Answer: By calling Sort() and then Reverse() methods.

Question

Marks:

Can you store multiple data types in System.Array?

Choose one answer.

a.Yes

b.No

c.Some Time

Answer: No

Question

Marks:

What’s the top .NET class that everything is derived from?

Choose one answer.

a.System.String

b.StringBuilder

c.System.Object.

d.Text.String

Answer: System.Object.

Question

Marks:

Are private class-level variables inherited?

Choose one answer.

a.Yes

b.No

c.Yes, but they are not accessible.

Answer: Yes, but they are not accessible.

Question

Marks:

Does C# support multiple-inheritance?

Choose one answer.

a.Yes

b.No.

c.Some Time

Answer: No

Question

Marks:

What will be the output? object s1 = "One " + 1; var s2 = "One " + 1; 1. if (s1 == s2) Console.Write("Equal"); else Console.Write("Not Equal"); 2. if (s1.Equals(s2)) Console.Write("Equal"); else Console.Write("Not Equal");

Choose one answer.

a.1. Error, 2. Equal

b.1. Equal, 2. Error

c.1. Not Equal, 2. Equal

d.1. Equal, 2. Equal

Answer: 1. Not Equal, 2. Equal

Question

Marks:

Class A {} Class B : A {} (1) A a1 = new B(); (2) B b1 = new A(); Which one will execute?

Choose one answer.

a.2

b.1

c.Both

d.None

Answer: 1

Question

Marks:

What is the output of the following code? 1. string tempStr = "Welcome" + 2; 2. string tempStr1 = "Welcome" + "2"; 3. string tempStr2 = "Welcome" + 2 \* 3; 4. string tempStr3 = "Welcome" + 2 - 1;

Choose one answer.

a.1. Welcome2, 2. Welcome2, 3. Welcome6, 4. Error

b.1. Welcome2, 2. Welcome2, 3. Welcome6, 4. Welcome1

c.1. Welcome2, 2. Welcome2, 3. Welcome23, 4. Welcome1

d.1. Welcome2, 2. Welcome2, 3. Welcome23, 4. Error

Answer: 1. Welcome2, 2. Welcome2, 3. Welcome6, 4. Error

Question

Marks:

Constructors can not be static

Choose one answer.

a.true

b.false

c.none

Answer: false

Question

Marks:

An abstract class

Choose one answer.

a.may contain instance variables

b.may contain constructors

c.may extend another class

d.all of the above

Answer: all of the above

108)Which one is true?

System is a class

System is a data member

System is a name space

System is type

Answer: System is a name space

1.Which of the following is Reference Type?

string

bool

int

ushort

Answer: string

2.If you are using transactions, what is a great technique that can help you roll back to certain points within a transaction?

Tables

Zones

Savepoints

Bookmarks

Answer: Savepoints

3. A User wants to deploy a zero impact .NET application

(one that will not affect other applications, does not use the registry, and leaves no residue on removal).In the above scenario, which one of the following must the User deploy?

A Dynamic assembly

A global assembly

A static assembly

A Public assembly

Answer: A Dynamic assembly

4. A User wants to use reflection to discover the assembly that contains a specific module.

which one of the following classes does the user should use?

Module

ConstructorInfo

PropertyInfo

Assembly

Answer: Module

5. Which Namespace helps to find informations of an assembly?

System.Globalization

System.IO

System.Reflection

System.Data

Answer: System.Reflection

6. Which of the given method does not belong to System.Object?

Equals

Clone

GetType

ToString

Answer: Clone

7. Which code snippet should you use to make the runtime assign an unauthenticated principal object to each running thread?

AppDomain^ domain = AppDomain::CurrentDomain;domain->SetPrincipalPolicy(PrincipalPolicy::WindowsPrincipal);

AppDomain^ domain = AppDomain::CurrentDomain;domain- >SetPrincipalPolicy(PrincipalPolicy::UnauthenticatedPrincipal);

AppDomain^ domain = AppDomain::CurrentDomain;domain->SetThreadPrincipal(gcnew WindowsPrincipal(nullptr));

AppDomain^ domain = AppDomain::CurrentDomain;domain- >SetAppDomainPolicy(PolicyLevel::CreateAppDomainLevel());

Answer: AppDomain^ domain = AppDomain::CurrentDomain;domain- >SetPrincipalPolicy(PrincipalPolicy::UnauthenticatedPrincipal);

8.

Which code snippet should be used to serialize an object by name 'Data' of type List(Of Integer) in a binary format?

Dim formatter As New BinaryFormatter()Dim ms As New MemoryStream() For i As Integer = 1 To 20 formatter.Serialize(ms, data(i - 1))Next

Dim formatter As New BinaryFormatter()Dim ms As New MemoryStream()formatter.Serialize(ms, data)

Dim formatter As New BinaryFormatter()Dim buffer As New Byte(data.Count) {}Dim ms As New MemoryStream(buffer, True)formatter.Serialize(ms, data)

Dim formatter As New BinaryFormatter()Dim ms As New MemoryStream()While ms.CanRead formatter.Serialize(ms, data)End While

Answer: Dim formatter As New BinaryFormatter()Dim buffer As New Byte(data.Count) {}Dim ms As New MemoryStream(buffer, True)formatter.Serialize(ms, data)

9. Which property of the Exception class should you use to find a line of code that caused an exception to be thrown?

StackTrace

Data

Message

Source

Answer: StackTrace

10. Which code snippet should you use to gather regional information about customers in NewZealand?

RegionInfo regionInfo = new RegionInfo("NZ")? // Output the region information...

foreach (CultureInfo culture in CultureInfo.GetCultures(CultureTypes.SpecificCultures)) { // Output the region information...}

RegionInfo regionInfo = new RegionInfo("")?if (regionInfo.Name == "NZ") { // Output the region information...}

CultureInfo cultureInfo = new CultureInfo("NZ")?

Answer: RegionInfo regionInfo = new RegionInfo("NZ")? // Output the region information...

11. A custom event handler needs to be created to automatically print all open documents.

The event handler helps specify the number of copies to be printed. Which code segment should you use to develop a custom event arguments class to pass as a parameter to the event handler?

public class PrintingArgs : EventArgs { private int copies? public PrintingArgs(int numberOfCopies) { this.copies = numberOfCopies? } public int Copies { get { return this.copies? } }}

public class PrintingArgs { private EventArgs eventArgs? public PrintingArgs(EventArgs ea) { this.eventArgs = ea? } public EventArgs Args {get { return eventArgs? }}}

public class PrintingArgs { private int copies? public PrintingArgs(int numberOfCopies) { this.copies = numberOfCopies? } public int Copies { get { return this.copies? } }}

public class PrintingArgs : EventArgs { private int copies?}

Answer: public class PrintingArgs : EventArgs { private int copies? public PrintingArgs(int numberOfCopies) { this.copies = numberOfCopies? } public int Copies { get { return this.copies? } }}

12. Which type should you choose to identify a type that meets the following criteria: Is always a number?

Is not greater than 65,535?

System.String

System.UInt16

System.IntPtr

int

Answer: System.UInt16

13. Which storage option should you use to Initialize each answer of a trueorfalse survey questionnaire to True?

Also ensure to Minimize the amount of memory used by each survey?

BitVector32 answers = new BitVector32(-1)?

BitVector32 answers = new BitVector32(1)?

BitArray answers = new BitArray(1)?

BitArray answers = new BitArray(-1)?

Answer: BitVector32 answers = new BitVector32(-1)?

14. Assume a class is created to compare a speciallyformatted string.

The default collation comparisons do

not apply.Which code segment should you use to implement the IComparable interface?

public class Person : IComparable<string>{ public int CompareTo(object other){ ... }}

public class Person : IComparable<string>{ public int CompareTo(string other){ ... }}

public class Person : IComparable<string>{ public bool CompareTo(object other){ ... }}

public class Person : IComparable<string>{ public bool CompareTo(string other){ ... }}

Answer: public class Person : IComparable<string>{ public int CompareTo(string other){ ... }}

15. Which Code segment should you use to ensure that a class named Age is written such that collections of Age objects can be sorted?

public class Age { public int Value? public object CompareTo(object obj) { if (obj is Age) { Age \_age = (Age) obj? return Value.CompareTo(obj)? } throw new ArgumentException("object not an Age")? } }

public class Age { public int Value? public object CompareTo(int iValue) { try { return Value.CompareTo(iValue)? } catch { throw new ArgumentException ("object not an Age")? } } }

public class Age : IComparable { public int Value? public int CompareTo(object obj) { if (obj is Age) { Age \_age = (Age) obj? return Value.CompareTo(\_age.Value)? } throw new ArgumentException("object not an Age")? } }

public class Age : IComparable { public int Value? public int CompareTo(object obj) { try { return Value.CompareTo(((Age) obj).Value)? } catch { return 1? } } }

Answer: public class Age : IComparable { public int Value? public int CompareTo(object obj) { if (obj is Age) { Age \_age = (Age) obj? return Value.CompareTo(\_age.Value)? } throw new ArgumentException("object not an Age")? } }

16.

How do you prevent a class from being inherited?

Mark it as abstract

Mark it as static

Mark it as sealed

Mark it as partial

None of the above

Answer: Mark it as sealed

17. What would be the value of the variable y at the end of this code segment?

int x = 3;

object o = x;

x = 4;

int y = (int)o;

3

4

7

0

Answer: 3

18. Which copy Array.Clone() method perform?

Shallow Copy

Deep Copy

Hard Copy

None

Answer: Shallow Copy

19. What is the difference between Convert.Tostring() and ToString()?

Select Answer:

both accept null values

convert.to string accept null values & tostring do not accept null values

both do not accept null values

convert.to string do not accept null values & tostring accept null values

none of them

Answer: convert.to string accept null values & tostring do not accept null values

20. The main reason to use operator overloading is...

To allow arithmetic operations to run more efficiently

To reduce the size of the executable program

To allow client code to be more concise and readable than it might be with regular methods

N/A

Answer: To allow client code to be more concise and readable than it might be with regular methods

21. The concept of parameterized datatypes like

List is called in C# ...

Templates

Generics

Delegates

Metatypes

Hyperclasses

Answer: Generics

22. There are five access levels in C#, private, internal, protected, protected internal, and public.

True

False

N/A

N/A

Answer: True

23. Namespaces are used to \_\_\_\_ ?

Avoid name clashes between data types

Create a unique name for an assembly

Separate assemblies

N/A

Answer: Avoid name clashes between data types

24. True or false: it is possible to use the const keyword on an reference parameter to prevent the method from modifying the parameter value.

True

False

N/A

N/A

Answer: False

25.

ICloneable interface is used to create new instance of the class with the same value as an existing instance.

Yes

No

N/A

N/A

Answer: Yes

26. Which members can be accessed through an object reference?

Only the object class members

All members

No members

None of the Above

Answer: Only the object class members

27.

A \_\_\_\_\_\_\_\_\_\_ control defaults to displaying the files in the current directory

List Box

Drive List Box

Dir List Box

File List Box

None of the above

Answer: File List Box

28. How can you come out from the c# windows Forms Application?

Application.Exit();

Application.close();

Form.Exit();

Form.Close();

None of the above

Answer: Application.Exit();

29. What is an Abstract Class?

A class that cannot be inherited

A class that can be instantiated

A class that cannot be instantiated

A class that can be instantiated

None of the above

Answer: A class that cannot be instantiated

30. Can we call a base class method without creating instance?

It is possible if it’s a partial method

It is possible if it’s a static method

It is possible if it’s a sealed method

It is possible if it’s a abstract method

Not possible

Answer: It is possible if it’s a static method

31.

Which of these string definitions will prevent escaping on backslashes in C#?

string s = #"Test string";

string s = ."Test string";

string s = @"Test string";

string s = &"Test string";

Answer: string s = @"Test string";

32. Unboxing of a null reference type will return a null.

true

false

an exception is thrown

N/A

Answer: an exception is thrown

33.

The default type of enum is integer and has a default value 1

true

false

sometimes

no one

Answer: false

34. what is the default access specifier for a Top-level Class, which are not nested into other Classes

public

private

protected

internal

Answer: internal

35. The statement that is used to replace multiple if statements is called

The switch & case statement

?: (ternary operator)

The nestedif statement

The #endif statement

Answer: The switch & case statement

36. Which Compiler is used for C#

cc

c++

cs

csc

Answer: csc

37. The ++ belongs to which operator

Category of Operator

Arithmetic Operator

Arithmetic Assignment Operator

Unary Operator

Comparison Operator

Answer: Unary Operator

38. Console is a \_\_\_\_\_\_

Namespace

Class

Function

Escape sequence character

Answer: Class

39. What are Arrays

Collection of values of different data type

Collection of values of same data type

Collection of values of mixed data type

None from the Above

Answer: Collection of values of same data type

40. How to compare case-insensitive string comparison?

for ex - india and INDIA

System.String.Compare( "india", "INDIA")

System.String.Compare( "india", "INDIA", true)

System.String.Compare( "india", "INDIA", false)

System.String.Compare( "INDIA", "india")

Answer: System.String.Compare( "india", "INDIA", true)

41. Can multiple catch blocks be executed?

Yes, Next catch blocks will execute if one catch blocks fires off

No, if one catch fires off the control is transferred to next catch block

No, If one catch code fires off, the control is transferred to the finally block

Answer: No, If one catch code fires off, the control is transferred to the finally block

42.

What are valid signatures for the Main function?

1.public static void Main()

2.public static int Main()

3.public static void Main( string[] args )

4.public static int Main(string[] args )

Answer: All (void main, int main, void main(str..), int main(str..)

43. Constructor return value ?

Select Answer:

Constructor returns void

Constructor returns any data type

Constructor don't return values

Answer: Constructor don't return values

44.

What is the top .NET class that everything is derived from?

system.data

system.windows

system.collection

system.object

Answer: system.object

45. Which property of datatable get status when conflict after update a row in Datatable

HasConflict

HasError

HasErrors

HasCollision

None

Answer: HasError

46. Whether the follow code will occur deadlock if we call test(30)?

public void test(int i)

{

lock(this)

{

if (i>10)

{

i--;

test(i);

}

}

}

Answer: No

47.

How to make an instance object of class be remotable and be passed by reference?

Implements ISerializable interface.

Has Serializable attribute.

Implements IObjectReference interface.

Inherited from MarshalByRefObject class.

Answer: Inherited from MarshalByRefObject class.

48. How to make a class be serializable?

Apply the \_\_\_\_\_\_\_\_\_\_\_ attribute to a type to indicate that instances of this type can be serialized.

Serializable

Formatable

Stream

Normalable

Answer: Serializable

49.

Which Stream class does not support the Seek method?

FileStream

MemoryStream

PipeStream

NetworkStream

BufferedStream

Answer: NetworkStream

50.

In the implement of Dispose method for a class, usually we use \_\_\_\_\_\_\_\_\_\_\_ to request that the system not call the finalizer for the specified object.

GC.Collect();

GC.GetGeneration(this);

GC.RegisterForFinalize(this);

GC.SuppressFinalize(this);

Answer: GC.SuppressFinalize(this);

51. About struct, what's the output of the following code:

A struct is defined as:

public struct Resources { public int data = 0; }

What's the result of the following code:

Resources[] list = new Resources[20];

for (int i = 0; i < 20; i++)

{

Console.WriteLine("data={0}", list[i].data);

}

20 lines, each line displays: data=0

20 lines, each line displays: data=null

20 lines, the first one displays: data=0, the second displays: data=1... etc

Compiler Error

Answer: Compiler Error

52. How to define a read only property named Count in a class? (C# 3.5)

public int Count {private get; set;}

public int Count {get; set;}

public int Count {private set;}

public int Count {get; private set;}

Answer: public int Count {get; private set;}

53.

If an assemble's version is 3.1.23.542, what's the minor version?

3

1

23

542

Answer: 1

54.

Use which option to cause the C# complier to create an executable (EXE) Windows program?

/target:exe

/target:winexe

/target:module

/target:library

Answer: /target:winexe

55.

Which is the base class of int in C#?

Int32

Object

ValueType

Integer

Answer: ValueType

56.

How to copy all the items in an Array data type variable named array to an ArrayList variable named arrayList?

arrayList = array.Clone();

foreach(object obj in array) arrayList.Add(obj);

arrayList.Add(array);

array.CopyTo(arrayList);

Answer: foreach(object obj in array) arrayList.Add(obj);

57.

The usage of new keyword in C#, which statements are correct?

1. new Operator, used to create objects and invoke constructors.

2. new Mofidior, used to hide an inherited member from a base class member.

3. new Constraint, used to restrict types that might be used as arguments for a type parameter in a generic declaration.

Answer: All ( 3 new )

58.

We use try-catch block in C# for catching error of

spelling

syntax

runtime

logical

Answer: runtime

59.

According to the code, we define 2 methods with same name testParams:

public void testParams(params int[] arr)

{

Console.Write("A");

}

public void testParams(int x, int y)

{

Console.Write("B");

}

And we use the following code to use them:

MyClass x = new MyClass();

x.testParams(0);

x.testParams(0,1);

x.testParams(0,1,2);

What's the output result?

Compiler Error

ABA

BAB

AAA

ABA

Answer: ABA

60. When we define a new class, we want a method of this class can be overridden in a derived class, which keyword should we use?

sealed

public

virtual

override

Answer: virtual

61. We define 2 classes like this:

class BaseClass

{

public int i;

}

class MyClass:BaseClass

{

public new int i;

}

What's the output of the follow code:

MyClass y = new MyClass();

BaseClass x = y;

x.i = 100;

Console.WriteLine("{0}, {1}",x.i,y.i);

0, 0

100, 100

0, 100

100, 0

Answer: 100, 0

62. Considering the follow code, after create a new object named obj of class4 class, which statement is valid?

public class class4

{

private string \_sData = "";

public string sData{set{\_sData = value;}}

}

obj.sData = "It is funny!";

Console.WriteLine(obj.sData);

obj.\_sData = "100";

obj.set(obj.sData);

Answer: obj.sData = "It is funny!";

63.

Considering the follow codes:

namespace ClassLibrary1

{

class MyClass

{

class subClass

{

int i;

}

}

}

Please note that the MyClass class has no access modifier. If we need to add an access modifier to MyClass and keep the same accessibility, which modifier should we use?

private

public (Your selection was wrong)

internal

protected

Answer: internal

64. In C#, how to use a variable to save the string: Tom's Living Room

string str = "Tom\'s Living Room";

string str = "Tom's Living Room";

string str("Tom's Living Room");

string str("Tom"s Living Room");

Answer: string str = "Tom's Living Room";

65.

If you want to declare a local temporary variable to store a money value in a finance application, which data type will you use?

decimal theMoney;

int theMoney;

string theMoney;

double theMoney;

Answer: decimal theMoney;

66.

How to declare a string variable in C#?

CString str;

string str;

Dim str as string

char\* str

Answer: string str;

67. How many Bytes are used to store an int data type variable?

1 Byte

2 Bytes

4 Bytes

8 Bytes

Answer: 4 Bytes

68.

Which is the tool window to display the contents of the current solution, including the solution's projects and each project's items?

Solution Explorer

Project Designer

Class View

Object Browser

Document Explorer

Answer: Solution Explorer

69. Which is a CPU-independent set of instructions that can be efficiently converted to native code?

CLR

CLS

MSIL

XML Web Services

Answer: MSIL

70. Which namespaces do the classes,allowing you to support COM Functionality , are located?

System.InteropServices;

System.ComponentModel;

System.Collections.Generic;

System.EnterpriseServices

Answer: System.EnterpriseServices

71.

You are writing a custom dictionary. The custom-dictionary class is

named MyDictionary. You need to ensure that the dictionary is type

safe.

Which code segment should you use?

Class MyDictionaryImplements Dictionary(Of String, String)

Class MyDictionary Inherits HashTable

Class MyDictionary Implements IDictionary

Class MyDictionary

Answer: Class MyDictionaryImplements Dictionary(Of String, String)

72.

Look at the code below, and mention which statements are true about the code ?

intValue = myValue1 +

myValue2 +

myValue3;

No it is not valid, It will raise exception

No it is not valid, it will raise warning only

Yes it is valid

Answer: Yes it is valid

73.

Will the final block get executed if an exception has not occured?

No

Yes

We cant say

Answer: Yes

74.

how to add a button control to form control from code file?

this.controls.add(btn1)

this.controls.add()

this.controls.add(btn1);

this.controls.add();

Answer: this.controls.add(btn1);

75.

do events have return type?

no

yes

maybe

Answer: no

76.

Does Main() always have to be public

no

yes

Can't say

Answer: no

77.

What are valid signatures for Main function?

public static void Main() (Your selection was wrong)

public static int Main()

public static void Main(String[] args)

public static int main (String[] args)

Answer: public static void Main(String[] args)

78.

Class String and the Char structure found in the:

System.Strings namespace

System.Chars namespace

System.Text namespace

System. Data namespace

Answer: System.Text namespace

79.

What is the proper header for a class that intends to use an interface.

class MyClass IFace

class MyClass ; IFace

class MyClass : IFace

Answer: class MyClass : IFace

80.

Is it possible to pass methods as arguments for other methods without modification.

false

true

may be

Answer: false

81.

Defining two methods with the same name but with different parameters is called

method Overloading

Overloading

parameter Overloading

none of the above

Answer: Overloading

82.

Private Button print = new button();

creates a button control

instantiates button control

both 1 & 2

none of above

Answer: both 1 & 2

83.

Can Abstarct class have a constructor?

A) Yes

B)No

C)Not a valid question

Answer: Yes

84.

lambda operator(=>) is a C# 2008 feature. Where is lambda operator mainly used ?

Select Answer:

Database Operations

Delegate Operations

File Handling Operations

Memory Stream Operations

Answer: Delegate Operations

85.

Given that you have a file containing XML orders.xml that contains both schema information and data, which one of the following statements loads this into a DataSet ds correctly?

ds.LoadXml("orders.xml", XmlReadMode.ReadSchema);

ds.ReadXml("orders.xml", XmlReadMode.ReadSchema);

ds.ReadXmlSchema("orders.xml");

ds.LoadXml("orders.xml");

None

Answer: ds.ReadXml("orders.xml", XmlReadMode.ReadSchema);

86.

Give Some Examples of Generic Classes?

List<T>,HashSet<T>

Queue<T>

Stack<T>

LinkedList<T>

all the above

Answer: all the above

87.

Which one of the following column types provides selection or editing buttons in GridView control?

ButtonField

BoundField

TemplateField

CommandField

HyperlinkField

Answer: CommandField

88.

Which two DataAdapter events fire for each row updated against a datasource

RowUpdating, AfterUpdate

BeforeUpdate, RowUpdating

RowUpdating, RowUpdated

BeforeUpdate, AfterUpdate

BeforeUpdate, RowUpdated

Answer: RowUpdating, RowUpdated

89.

What is the size for double datatype in c#?

1 Byte

2 Bytes

4 Bytes

8 Bytes

16 Bytes

Answer: 8 Bytes

90.

What is the size for Signed integer and Unsigned integer in c#?

1 Byte

2 Bytes

4 Bytes

8 Bytes

16 Bytes

Answer: 4 Bytes

91.

What is the size for Signed short integer and Unsigned short in C#?

1 Byte

2 Bytes

4 Bytes

8 Bytes

16 Bytes

Answer: 2 Bytes

92.

What is the size for Signed byte and Unsigned byte in C#?

1 Byte

2 Bytes

4 Bytes

8 Bytes

16 Bytes

Answer: 1 Byte

93.

What is the range for Signed byte in c#?

0 to 255

-32768 to 32767

-128 to 127

0 to 65535

Answer: -128 to 127

94.

What is the range for Unsigned short in c#?

0 to 65535

-2147483648 to 2147483647

32768 to 32767

0 to 4294967295

Answer: 0 to 65535

95.

What is the range of Signed integer datatype in c#?

-32768 to 32767

-128 to 127

0 to 255

-2147483648 to 2147483647

Answer: -2147483648 to 2147483647

96.

What is the size of decimal datatype in c#?

1 Bytes

2 Bytes

4 Bytes

8 Bytes

16 Bytes

Answer: 16 Bytes

97.

UDDI Stands for?

Universal discovery description integration

Universal data discovery Integration (Your selection was wrong)

Universal description discovery integration

none of above

Answer: Universal description discovery integration

98.

What is the size of Unsigned long int in c#?

2 bytes

4 bytes

8 bytes

1 bytes

Answer: 8 bytes

99.

What is the range of Unsigned byte in c#?

-128 to 127

-32768 to 32767

0 to 255

0 to 128

Answer: 0 to 255

100.

Can we change the value while debugging a c# application?

Select Answer:

yes

no

-

-

Answer: yes

=======================================================================================

1. Under which of the following environments does your program’s execution

code run?

A. MSIL

B. CLS

C. CLR

D. VB .NET

Answer: CLR

2. What is the compiler called that converts IL code into platform-specific code?

A. MSIL-converter

B. JIT

C. JTI

D. Metadata

Answer: JIT

3. What is the output format of the file the C# compiler produces?

A. Byte code

B. IL

C. Hex dump

D. Intel Assembler

Answer: IL

4. Given the following program, what is the outcome when you try to compile

and run it?

using System;

class Test

{

public static int Main()

{

Console.WriteLine("Hello World!");

}

}

A. It will compile and print “Hello World!” when run.

B. It will compile and result in a runtime error indicating that the Console

is an unknown object.

C. It will fail to compile with an “error CS0161: 'Test.Main( )': not all code

paths return a value”.

D. It will fail to compile with an "error CS0161:'Test.Main( ): method cannot

return an int".

Answer: not all code

5. Hiding the implementation and exposing the interface is a concept of

OOP called:

A. Polymorphism

B. Encapsulation

C. Overloading

D. Static

Answer: Encapsulation

6. Which of the following statements is true?

A. A class is the implementation of an object.

B. An object is the implementation of a class.

C. A class is the instantiation of an object.

D. An object is the instantiation of a class.

Answer: object is instantiation

7. Which of the following is the correct way to declare the method

GetPayCheck()?

A. public int GetPayCheck()

B. private int GetPayCheck()

C. private void GetPayCheck(int a)

D. public void GetPayCheck(int a)

Answer: public int GetPayCheck()

8. Which is a definition of a static method?

A. public static MethodA()

B. public void MethodA()

C. private static MethodA()

D. public static void MethodA()

Answer: public static void MethodA()

9. Which of the following languages is not part of the current .NET languages?

A. Visual Basic

B. C#

C. C++

D. FoxPro

Answer: FoxPro

10. In order to compile a C# program from the command line, what command

would you use?

A. cmd

B. comp

C. csc

D. daml

Answer: csc

1. Given the following code segment, what will the value returned from the

method be?

public int ViktorMove()

{

int x = 42;

int y = 12;

int w;

object o;

o = x;

w = y \* (int)o;

return w;

}

A. 504

B. 491

C. 42

D. Runtime error, Null Pointer exception!

Answer: 504

2. When will the garbage collector run?

A. Every 15 minutes.

B. Once every day at 13:00.

C. When the application is low on memory.

D. Randomly based on the resource load on the system.

Answer: When the application is low on memory.

3. The statement that is used to replace multiple if statements is called:

A. The case statement.

B. The switch statement.

C. The nestedif statement.

D. The #endif statement.

Answer: The case statement.

4. Which of the following is not a C# keyword?

A. if

B. delegate

C. private

D. implements

Answer: implements

5. Choose the correct method for declaring a namespace:

A. namespace Osborne.Chapter5

B. namespace Osborne.Chapter5;

C. namespace Osborne.Chapter5.MyClass

D. namespace Osborne.Chapter5.MyClass;

Answer: namespace Osborne.Chapter5;

6. Determine the output of the following code segment:

int x = 42;

x++;

x += --x;

System.Console.WriteLine ("The value of x is : {0}", x);

A. 84

B. 83

C. 86

D. 85

Answer: 85

1. Given the following code, what will the compiler do?

class Test1

{

sealed abstract void MyMethod1A()

{

System.Console.WriteLine ("This is MyMethod1");

}

}

A. The code will compile properly.

B. The class visibility is incorrect.

C. System.Console.WriteLine is specified incorrectly.

D. MyMethod1() is not properly declared.

Answer: MyMethod1() is not properly declared.

2. Which line causes a compile error in the following code?

1. interface Test2

2. {

3. int Int2;

4. void Method2A(int);

5. string Method2B ();

6. int Method2C(int, int);

7. int Method2A(char);

8. }

A. Line 3

B. Line 4

C. Line 5

D. Line 7

Answer: Line 3

3. What is the outcome of compiling this program?

1 public class Test3

2 {

3 void Method3A ()

4 {

5 System.Console.WriteLine ("In Method3A");

6 }

7 }

8 class Test3a: Test3

9 {

10 void Method3B ()

11 {

12 Method3A();

13 }

14 }

15 class Test3b

16 {

17 public static void Main()

18 {

19 Test3a a = new Test3a();

20 a.Method3B();

21 }

22 }

A. It compiles successfully.

B. Lines 12 and 20 are in error.

C. Line 12 is an error.

D. Line 20 is the error.

Answer: 12 and 20 are in error.

4. What will happen on line 24?

1 class Test4

2 {

3 int test4a;

4 string test4b;

5 float test4c;

6 virtual public void Test4D ()

7 {

8 System.Console.WriteLine("Hello")

9 }

10 }

11 class Test4a: Test4

12 {

13 override public void Test4D ()

14 {

15 System.Console.WriteLine ("Goodbye");

16 }

17 }

18 class Test4b

19 {

20 public static void Main()

21 {

22 Test4a t = new Test4a();

23 Test4 t1 = t;

24 t.Test4D();

25 }

26 }

A. The compiler finds an error.

B. A runtime error occurs.

C. It prints “Goodbye.”

D. It prints “Hello.”

Answer: “Goodbye.”

5. What is the result of the following code?

class Test5

{

public Test5 ( )

{

System.Console.WriteLine ("Test5 1");

}

public Test5 (int num)

{

System.Console.WriteLine ("Test5 2");

}

}

class Test5a

{

public Test5a (): base(5)

{

}

public Test5a(int numb): base()

{

}

}

class Test5b

{

public static void Main()

{

Test5a t = new Test5a(12);

}

}

A. It prints “Test5 1.”

B. It prints “Test5 2.”

C. It does not compile.

D. It does not run.

Answer: “Test5 1.”

1. Given the following code segment, what is the content of the string s in line 4?

1 string s = "Hello";

2 string r;

3 r = s;

4 r += " World!";

A. “Hello World!”

B. “Hello”

C. Nothing, it is garbage collected

D. The code will not compile

Answer: “Hello”

2. Which of the following array declarations will produce a compiler error?

A. int[] Integers = new int[] (1,2,3,4,5,6,7,8,9,0};

B. int[] Integers = new int[42];

C. int[] Integers = {1,2,3,4,5,6,7,8,9,0};

D. int I = 4;

int[] Integers = new int[I] {1,2,3,4};

Answer: new int[I]

3. In the following code, what will be printed by the Console.WriteLine()

method?

string[] str = {"Hello", "!", "World"};

Array.Reverse(str);

Console.WriteLine(str[0]);

A. “!”

B. “Hello”

C. “olleH”

D. “World”

Answer: “World”

4. In the following code, what will be printed by the Console.WriteLine()

method?

string[] str = {"Hello", "!", "World"};

Array.Sort(str);

Console.WriteLine(str[0]);

A. “!”

B. “Hello”

C. “olleH”

D. “Hello World !”

Answer: "!"

5. What is the outcome of the following code?

01 public void MethodB ()

02 {

03 int [] MyInts = new int [2];

04 try

05 {

06 for ( int i = 0; i < 3; i++)

07 {

08 MyInts[i] = i;

09 }

10 } catch (System.Exception e)

11 {

12 System.Console.WriteLine ("Some error occurred");

13 }

14 }

A. The code will not compile because there is an incorrect catch block.

B. The code will not compile because of an error on line 6.

C. The code will compile and displays “Some error occurred”.

D. The code will compile and will abort upon execution.

Answer: “Some error occurred”

6. What is the outcome of the following code?

01 public void MethodB ()

02 {

03 int [] MyInts = new int [2];

04 try

05 {

06 for ( int i = 0; i < 3; i++)

07 {

08 MyInts[i] = i;

09 }

10 } finally

11 {

12 System.Console.WriteLine ("This is executed");

13 }

14 }

A. The code will not compile because there is a missing catch block.

B. The code will compile and abort upon execution.

C. The code will compile and displays “This is executed”.

D. The code will compile and will abort upon execution and then display

“This is executed”.

Answer: “This is executed”

7. You need to define a delegate for the following method:

public class Class1

{

public static int Method42(int i)

{

return i\*42;

}

}

How is the delegate for Method42() declared?

A. delegate Class1.Method42;

B. delegate int Met42(int i);

C. delegate void Method42(string s);

D. delegate int Class1.Method42(int i);

Answer: delegate int Met42(int i);

8. What kind of delegate will be created for the following method?

public void Method12(object sender, System.EventArgs e)

{

…

}

A. Single delegate

B. Event delegate

C. Multicast delegate

D. Proxy delegate

Answer: Multicast delegate

9. The following code segment creates an event handler. What text must be

inserted in place of <<replace text here>> for the event to work?

// declare the delegate for the event

public delegate void SendFaxEventHandler();

public class Fax

{

// declare the SendFax event

public <<replace text here>> event SendFaxHandler SendFax;

// …

}

A. void

B. delegate

C. Combine

D. static

Answer: static

10. You are building an event handler for the SendFax event from the sFax

component, and you have written the following code. When you test the

event handler, you find that it never runs. What code must you add to your

application to make the event execute in response to the SendFax event?

private void Send\_Fax()

{

Console.WriteLine("Fax is sent!");

}

A. public delegate SendFax(Send\_Fax);

B. this.sFax.SendFax += new SendFaxHandler(this.Send\_Fax);

C. public event SendFax(Send\_Fax);

D. this.sFax.SendFax =+ new SendFaxHandler(this.Send\_Fax);

Answer: SendFax += new SendF

1. You want to see all the methods of a particular class that you are using in your

application. Which tool would you use?

A. Class Viewer

B. Object Browser

C. Class Explorer

D. Object Explorer

Answer: Object Browser

2. You want to change the color of the text in the code window. Which menu item

would you select?

A. View | Options

B. Tools | Customize

C. View | Customize

D. Tools | Options

Answer: Tools | Options

3. Which key combination will allow you to compile your console application

and leave the console window open?

A. CTRL-F5

B. ALT-F5

C. F5

D. SHIFT-F5

Answer: CTRL-F5

4. To create a class file that can be added to a library, you would select which

project type?

A. ASP.NET Web Application

B. Class Library

C. Console Application

D. Web Control Library

Answer: Class Library

1. What is the name given to the type of assembly that contains localized

resources?

A. Spoke

B. Hub

C. Sputnik

D. Satellite

Answer: Satellite

2. What is the correct name for a resource file with images for the English culture,

in the United States subculture?

A. images.US-en.resources

B. images.en-US.resources

C. resources.images.en-US

D. images.en-US.dll

Answer: es.en-US.resources

3. What is the minimum number of assemblies a .NET application can have?

A. 0

B. 1

C. 2

D. 3

Answer: 1

4. How is the metadata for an assembly stored?

A. In the Registry.

B. In .ini files.

C. As XML in the manifest.

D. As a Type Library (.tlb) file.

Answer: As XML in the manifest.

5. What tool is used to manage the assemblies in the Global Assembly Cache?

A. gacmgr.exe

B. gacutil.exe

C. gassy.exe

D. al.exe

Answer: gacutil.exe

1. What is the code for the German language?

A. ge

B. gb

C. de

D. dk

Answer: de

2. What namespace contains the ResourceManager class?

A. System.Localization

B. System.Resources

C. System.Globalization

D. System.Threading

Answer: Resources

3. What is the process called that converts a primitive to a class?

A. Primary

B. Boxing

C. Conversion

D. Encoding

Answer: Boxing

4. Which of the following code segments will correctly display the string resource

txtHello? (All objects are correctly created.)

A. Console.Write(rm.ToString("txtHello");

B. Console.WriteLine(rm.Strings("txtHello");

C. Console.Write(txtHello.ToString("s"));

D. Console.Write(rm.GetString("txtHello"));

Answer: rm.GetString("txtHello")

5. What does the following command do?

csc /res:strings.resources HelloGlobalWorld.cs

A. Builds only the HelloGlobalWorld program.

B. Builds the HelloGlobalWorld and links the fallback resource.

C. Creates an assembly for the HelloGlobalWorld program.

D. Creates a name resolution report for the HelloGlobalWorld program.

Answer: Builds the HelloGlobalWorld and links the fallback resource.

6. When localizing a web application, you find that you need to encode Unicode

characters that are sent to the client. What attribute would you set?

A. ResponseEncoding="UTF-8"

B. Encoding="UTF-8"

C. ResponseCode="UTF-8"

D. EncodedResponse="UTF-8"

Answer: ResponseEncoding="UTF-8"

7. What happens when the Resource Manager fails to find the localized resource

for a locale?

A. It uses the closest locale.

B. It throws an exception.

C. Nothing, the resource will be blank.

D. It uses the fallback resource.

Answer: the fallback resource

8. What namespace contains the CultureInfo class?

A. System.Localization

B. System.Resources

C. System.Globalization

D. System.Threading

Answer: Globalization

9. Do you have to produce all the locale-specific assemblies before deploying the

application?

A. Yes, the assemblies must be present for the final compile of the application.

B. Yes, the fallback manifest must be built from all the satellite assemblies.

C. Yes, the .NET Framework must update the registry with all the information

at deployment.

D. No, the satellite assemblies can be deployed at will after initial deployment.

Answer: No, the satellite assemblies can be deployed at will after initial deployment.

10. In the following code segment, what is the significance of the "Strings" literal?

static ResourceManager rm = new ResourceManager("Strings",

Assembly.GetExecutingAssembly());

A. Arbitrary name for the assembly.

B. The base name of the resource to be loaded.

C. The base name of the assembly to be loaded.

D. Alias for the Resource Manager.

Answer: the resource to be loaded

11. Where in the object model is the information relating to the date format stored

for a specific locale?

A. ResourceManager

B. CultureInfo

C. LocalFormat

D. Reflection

Answer: CultureInfo

12. Your application is called AccountingOne.exe. What must the name of the

French string resource be?

A. AccountingOne.resources.dll

B. strings.resources

C. strings.fr.resources.dll

D. strings.fr.resources

Answer: strings.fr.resources

13. What does the attribute dir="rtf" stand for?

A. The direction of RTF files.

B. The encoding of RTF files.

C. The direction for the display of characters.

D. A directory listing of all RTF files.

Answer: for the display of characters.

14. Your application is called AccountingOne.exe. What must the name of the

satellite assemblies be?

A. Accountingone.resources.dll

B. accounting.Resources.dll

C. AccountingOne.resources.dll

D. Accounting.resources.dll

Answer: untingOne

1. Which command will cause an XML file to be generated from documentation

comments?

A. csc MyClass.cs /doc:MyClass.cs

B. cscd MyClass.cs /doc:MyClass.xml

C. cscd MyClass.cs /doc:MyClass.cs

D. csc MyClass.cs /doc:MyClass.xml

Answer: csc .xml

2. Which line causes the following XML to be not well-formed?

<VideoList>

<tape>

<name>XML is cool!</name>

</VideoList>

</tape>

A. <tape>

B. </VideoList>

C. </tape>

D. <name>XML is cool!</name>

Answer: </VideoList>

3. Which XML rule does the following break?

<employees>

<Employee>

<name>Kenneth S. Lind</name>

</Employee>

<employee>

<name>Marj Rempel

</employee>

</employees>

A. There must be a single root element.

B. There must be matching opening and closing tags.

C. XML is case-sensitive.

D. All attributes must be in quotes.

Answer: be matching opening and closing tags.

4. Which XML rule does the following break?

<employees>

<employee>

<name id=123>Kenneth S. Lind</name>

</employee>

<employee>

<name id=456>Marj Rempel</name>

</employee>

</employees>

A. There must be a single root element.

B. There must be matching opening and closing tags.

C. XML is case-sensitive.

D. All attributes must be in quotes.

Answer: All attributes must be in quotes.

5. Visual Studio .NET provides a tool to generate HTML from the XML

documentation file. It is found where?

A. Tools | Generate XML

B. Tools | Generate HTML

C. Tools | Build Comment Pages

D. Tools | Build Comment Web Pages

Answer: Web Pages

6. Which XML line(s) generates an employee attribute?

A. <employee name="Ken">

B. <employee attribute name="Ken">

C. <employee Name='Ken'>

D. <employee attribute Name='Ken'>

Answer: ee name=/ee Name='Ken'

7. Which of the following lines is an XML declaration?

A. <xml version="1.0">

B. ?xml version="1.0"?

C. <?xml version=1.0?>

D. <?xml version="1.0"?>

Answer: <?xml version="1.0"?>

8. Why will the following XML code not be rendered by a browser?

<name>

<lastname>Dowdy</lastname>

<firstname>Howdy</firstname>

</lastname>

A. The browser is not specified.

B. The root element is missing.

C. The root element is not closed properly.

D. The firstname element is incorrect.

Answer: not closed properly.

9. Assess the following XML. Which answer correctly describes the code?

<addresses>

<listing>

<name>

<lastname>Dowdy</lastname>

<firstname>Howdy</firstname>

</name>

<address>

<street>123 Anywhere St</street>

<city>MyCity</city>

</address>

</listing>

</addresses>

A. The name element is described incorrectly.

B. The address element is described incorrectly.

C. The addresses root element is described incorrectly.

D. Nothing—this is well-formed XML.

Answer: Nothing—this is well-formed XML.

10. Which of the following documentation comments is correct?

A. /// summary This is a summary comment summary

B. /// <summary> This is a summary comment </summary>

C. /// <summary> This is a summary comment

D. /// summary This is a summary comment

Answer: <summary></summary>

1. You have been asked to debug a Web-based ASP.NET application. For some

reason, the debugging information is not presented. What could be missing?

A. <%@ Page Debug="true" %>

B. <%@ Application Debug="true" %>

C. <%@ Page Trace="true" %>

D. <%@ Application Trace="true" %>

Answer: Page Debug="true" %>

2. You want to examine and change the value of a variable in your C# application.

You are developing using Visual Studio .NET. What window will allow you to

change the value during execution?

A. Locals window

B. Call Stack window

C. Immediate window

D. Watch window

Answer: Immediate window

3. You want to compile a console-based program at the command line. What is

the correct syntax of the command-line compiler that will allow you to see

debugging information?

A. csc /b:debug MyApp.cs

B. csc /d:debug MyApp.cs

C. csc MyApp.cs /b:debug

D. csc MyApp.cs /d:debug

Answer: MyApp.cs /b:debug

4. Trace switches can be set using which class?

A. System.Diagnostics.Trace

B. System.Diagnostics.DefaultTraceListener

C. System.Diagnostics.TraceSwitches

D. System.Diagnostics.TraceSwitch

Answer: TraceSwitches

5. The correct syntax for adding a trace listener to the Listeners collection is:

A. TraceListeners.Add (new

TextWriterTraceListener("myfile.txt");

B. Trace.Listeners.Add (new

TextWriterTraceListener("myfile.txt");

C. Trace.Add (new TraceListener ("myfile.txt");

D. TraceListener.Add (new TraceListener("myfile.txt");

Answer: Trace.Listeners.Add (new TextWriterTraceListener("myfile.txt");

6. To debug an ASP.NET application, you need to attach to which process?

A. aspnet.exe

B. asp.net.exe

C. aspnet\_debug.exe

D. aspnet\_wp.exe

Answer: aspnet\_wp.exe

7. How would you create a breakpoint in your code within Visual Studio .NET?

A. Press F9.

B. Right-click in the margin and select Insert Breakpoint.

C. Choose Debug | New Breakpoint from the menu system.

D. All of the above.

E. None of the above.

Answer: All of the above.

1. What does the following SQL statement return, assuming that all tables and

column names are correct?

SELECT FirstName, StreetAddress

FROM Employees

JOIN AddressBook

ON Employees.EmpID = AddressBook.EmpID

A. Nothing, the JOIN syntax is wrong.

B. All the records from the Employees table, and only the matching ones from

the StreetAddress table.

C. All the records from the StreetAddress table, and only the matching records

from the Employees table.

D. Only the matching records from the two tables.

Answer: Only the matching records from the two tables.

2. What is a transaction?

A. A banking term.

B. A concept used to describe a step in the business process.

C. A combination of DML steps that must succeed or the data is returned to its

initial state.

D. A combination of DDL steps that must succeed or the data is returned to its

initial state.

Answer: of DML steps that must succeed or the data is returned to its initial state.

3. What object is used to encapsulate a data source?

A. XxxConnection

B. XxxCommand

C. XxxDataAdapter

D. DataSet

Answer: XxxConnection

4. What object is used to encapsulate a rowset?

A. DataSet

B. DataAdapter

C. DataRowSet

D. DataTable

Answer: DataTable

5. What property is used on the DataTable to indicate a conflict after an update?

A. HasConflict

B. HasError

C. HasCollision

D. HasDataError

Answer: HasError

6. What is a DiffGram?

A. An XML file containing both the original and current values for the data.

B. An XML file containing the difference between original and current data.

C. A DataSet loaded with two XML files, resulting in the difference

being current.

D. A DataSet loaded with an XML file and the original values from

the data source.

Answer: both the original and current values for the data.

7. How is the data represented in an XmlDataDocument?

A. Relational

B. Flat

C. Hierarchical

D. Tabular

Answer: Hierarchical

8. When would you not use the OleDbConnection object?

A. To connect to an SQL 7.0 database.

B. To connect to a DB/2 database.

C. To connect to an Access database.

D. To connect to an SQL 6.5 database.

Answer: an SQL 7.0 database.

9. What connection is used in ADO.NET to connect to an SQL Server 6.0?

A. Use the OleDbConnection class.

B. Upgrade the server to SQL 7.0 and use the OleDbConnection class.

C. Upgrade the server to SQL 2000 and use the OdbcConnection class.

D. Upgrade the server to SQL 6.5 and use the SqlConnection class.

Answer: Use the OleDbConnection class.

10. On what object is the transaction in ADO.NET focused on?

A. The command object

B. The DataSet object

C. The connection object

D. The DataAdapter object

Answer: The connection object

11. What is the SQL argument that sorts the data returned by an SQL SELECT

statement?

A. GROUP BY

B. SORT BY

C. SORTED

D. ORDER BY

Answer: ORDER BY

12. What combination of methods are used to improve the speed of the Fill()

method of the DataAdapter?

A. BeginFillData() and EndFillData()

B. StartFillData() and EndFillData()

C. BeginLoadData() and EndLoadData()

D. StartLoadData() and EndLoadData()

Answer: BeginLoadData() and EndLoadData()

13. The following SQL INSERT statement fails. What is the most probable reason

for the failure?

INSERT INTO Employees VALUES (42,'Bob','Carol', 12)

A. Syntax error in the INSERT statement.

B. The columns in the Employees table are not in the indicated order

(int, char, char, int).

C. The Employees database does not have a default table defined.

D. The SELECT INTO permission is not set.

Answer: (int, char, char, int).

14. In the following code, what is the result of compilation?

using System;

using System.Data;

using System.Xml;

class question14

{

public static void Main()

{

DataSet dsNw = new DataSet();

string strCn = "data source=(local);user id=sa;" +

"initial catalog=northwind;";

SqlConnection cnNw = new SqlConnection(strCn);

string strSQL = "SELECT \* FROM Employees";

SqlDataAdapter daNw = new SqlDataAdapter(strSQL, cnNw);

daNw.Fill(dsNw, "Employees");

XmlDataDocument doc = new XmlDataDocument(dsNw);

doc.Save(Console.Out);

}

}

A. No errors

B. One error

C. Two errors.

D. Three errors.

Answer: Three errors.

15. What is the result of the following SQL statement?

USE Northwind

DELETE Employees

A. The Employees table is emptied.

B. The current record is deleted.

C. Syntax error, the USE command is wrong.

D. The Employee database in the Northwind server is deleted.

Answer: table is emptied.

1. What definition correctly defines a label server control with the name set to

lblHoop?

A. <asp:Label name="lblHoop" runat="server" />

B. <Label id="lblHoop" runat="server" />

C. <asp:label id="lblHoop" runat="server" />

D. <server label name="lblHoop" runat="asp" />

Answer: <asp:label id="lblHoop" runat="server" />

2. What ASP.NET object encapsulates the user’s data as it is sent from a form

in a page?

A. The Session object.

B. The Application object.

C. The Response object.

D. The Request object.

E. The Server object.

Answer: The Request object.

3. What important standard is used to connect client browsers with web servers?

A. HTTP

B. TCP/IP

C. ASP.NET

D. HTML

Answer: TCP/IP

4. What ASP.NET object is used to get information about the web servers

hostname?

A. The Session object.

B. The Application object.

C. The Response object.

D. The Request object.

E. The Server object.

Answer: Server object.

5. When writing server-side code, what marks are used to indicate the code block?

A. <% %>

B. <!-- -->

C. <@ language="c#" @>

D. <asp:script runat="server" />

Answer: <% %>

6. What computer language is installed with the .NET Framework, by default?

A. JavaScript

B. Quick Basic

C. C

D. LiveScript

Answer: JavaScript

7. What is the name of the process the browser uses to find the address of

a web server?

A. DMZ

B. DNS

C. Active Directory

D. Database lookup

Answer: DNS

8. How many rules are there regarding a well formed XML document?

A. Nine

B. Three

C. Six

D. Two

Answer: Six

9. What line in the following XML document will generate an error?

1 <?xml version="1.0">

2 <employees>

3 <employee>

4 <name>Bob Andcarrol</Name>

5 </employee>

6 <employee>

7 <Name>Robert Burns</Name>

8 </employee>

9 </employees>

A. 6

B. 4

C. 1

D. There is no error.

Answer: 4

10. What language is the standard web script language ECMAScript based on?

A. JavaScript

B. Java

C. Perl

D. Jscript

Answer: JavaScript

11. What is the behavior of a web browser when it receives an invalid element?

A. The web browser will display the element in raw form.

B. The web browser will send a report to the webmaster detailing the error

by using the Request object.

C. The web browser will report the error, letting you debug the page.

D. The browser will ignore the invalid section.

Answer: ignore the invalid section.

12. What ASP.NET object encapsulates the state of the client and the browser?

A. The Session object.

B. The Application object.

C. The Response object.

D. The Request object.

E. The Server object.

Answer: Session object.

13. What object would you use if you need to support Netscape Navigator and

Microsoft Internet Explorer?

A. ActiveX control

B. Intrinsic controls

C. XML

D. Java applet

Answer: Java applet

14. What method(s) must be used with the Application object to ensure

that only one process accesses a variable at a time?

A. Synchronize()

B. Lock() and UnLock()

C. Lock() and Unlock()

D. SingleUse()

Answer: UnLock()

15. What ASP.NET object encapsulates the web site?

A. The Session object.

B. The Application object.

C. The Response object.

D. The Request object.

E. The Server object.

Answer: Application object.

1. When working with ASP.NET server controls, it is important to use the right

event handlers to capture the event for the application to function properly.

What event would you use to capture the selection of a new item in a

DropDownList control?

A. The Click event.

B. The SelectionChanged event.

C. The SelectedIndexChanged event.

D. The ChangedSelection event.

Answer: SelectedIndexChanged event.

2. What code segment represents the event handler registration for the click event

of the btnA Button control?

A. this.btnA.Click.Register(new System.EventHandler

(this.setList));

B. this.btnA.Click.Add(new System.EventHandler

(this.setList));

C. this.btnA.ClickEvent += new System.EventHandler

(this.setList);

D. this.btnA.Click += new System.EventHandler(this.setList);

Answer: btnA.Click +=

3. When an ASP.NET server control is added to a Web Form, Visual Studio .NET

adds one item to the class for the form. What item is added?

A. The event registration.

B. A protected class member for the control.

C. A default event handler for the click event.

D. A default class that inherits from the control’s base class.

Answer: protected class member for the control.

4. When a browser requests an .aspx file and the file is displayed, what is

actually returned to the browser from the server?

A. HTML

B. XML

C. ASPX

D. ASP

Answer: HTML

5. What is the function of the CustomValidator?

A. It allows for custom C# client-side code to validate entries in a control.

B. It allows for a custom mixture of validator controls to use one central

control for the display of messages.

C. It uses scripted client-side code to validate the entry in a control.

D. It uses server-side code to validate the entry in a control.

Answer: It uses scripted client-side code to validate the entry in a control.

6. What attribute must be set on a validator control for the validation to work?

A. Validate

B. ValidateControl

C. ControlToBind

D. ControlToValidate

Answer: ControlToValidate

7. The Items property of a ListBox is a reference to what kind of object?

A. Item

B. ListItem

C. String

D. Index value

Answer: ListItem

8. What is the use of the WebForm.aspx.cs file?

A. Holds the HTML code for the form.

B. Holds the control configuration for the form.

C. Holds the C# code for the codebehind module.

D. Holds the C# code that will be translated into HTML on the client.

Answer: for the codebehind module.

9. Given an ASP.NET Web Form called WebForm1, what class does the WebForm1

class inherit from by default?

A. System.Web.Form

B. System.Web.GUI.Page

C. System.Web.UI.Page

D. System.Web.UI.Form

Answer: UI.Page

10. What layout mode is the default when a new Web Form is created?

A. GridBagLayout

B. GridLayout

C. FlowLayout

D. FormLayout

Answer: GridLayout

11. When does the DropDownListBox control reload its list?

A. Every time the server-side codebehind module is called.

B. Every 2 minutes by default.

C. When the user clicks on an entry in the control.

D. Never.

Answer: Every time the server-side codebehind module is called.

12. What is the Web.config file used for?

A. To store the global information and variable definitions for the application.

B. Configures the time that the server-side codebehind module is called.

C. To configure the web server.

D. To configure the web browser.

Answer: To store the global information and variable definitions for the application.

13. What happens if an ASP.NET server control with event-handling routines is

missing the runat="server" attribute from its definition?

A. The control will operate as usual; the default is runat="server".

B. The control will revert to being a client-side control and function as such.

C. The control will not function; the default is runat="client".

D. The compilation of the application will fail.

Answer: The compilation of the application will fail.

14. What happens if an ASP.NET server control with no event-handling routines is

missing the runat="server" attribute from its definition?

A. The control will operate as usual; the default is runat="server".

B. The control will revert to being a client-side control and function as such.

C. The control will not function; the default is runat="client".

D. The compilation of the application will fail.

Answer: not function; the default is runat="client".

15. After capturing the SelectedIndexChanged event for a ListBox control,

you find that the event handler doesn’t execute. What could the problem be?

A. The AutoEventWireup attribute is set to False.

B. The AutomaticPostBack attribute is set to False.

C. The codebehind module is not properly compiled.

D. The ListBox must be defined WithEvents.

Answer: AutomaticPostBack attribute is set to False.

1. What must be done before you can consume a web service?

A. Build a proxy library by using the TblImp.exe utility.

B. Build a proxy library by using the Disc.exe utility.

C. Build a proxy library by using the csc.exe utility.

D. Build a proxy library by using the wsdl.exe utility.

Answer: wsdl.exe utility.

2. You need to use the web service TempConvService. Where should you

place the proxy file?

A. In the lib directory off the root directory of the application.

B. In the root directory of the application.

C. In the bin directory off the root directory of the application.

D. In the bin directory of .NET Framework.

Answer: bin off the root directory of the application.

3. You need to use the web service TempConvService. What page directives

correctly expose the web service?

A. <%@ Page Language="c#" Debug="true" %>

<%@ Import = "TempConvService" %>

B. <%@ Page Language="c#" Debug="true" %>

<%@ Import namespace="TempConvService" %>

C. <%@ Page Language="c#" Debug="true" %>

<%@ Import ProxyNameSpace="TempConvService" %>

D. <%@ Page Language="c#" Debug="true" %>

<%@ Import namespace="bin/TempConvService" %>

Answer: <%@ Page Language="c#" Debug="true" %><%@ Import namespace="TempConvService" %>

4. You need to call a function that is located in a library named

MyLibrary.dll, and this is the function signature:

int MyFunc(int intAction, int intOption, uint uValue)

You also need to rename the function to Func42 to avoid name conflicts in the

application. Which code segment will correctly make the function available to

your application?

A. [DllImport("MyLibrary.dll")]

public static extern int Func42 (int intAction, int intOption, int

uValue);

B. [DllImport("MyLibrary.dll", EntryPoint = "Func42")]

public static extern int Func42 (int intAction, int intOption, uint

uValue);

C. [DllImport("MyLibrary.dll")]

D. [DllImport("MyLibrary.dll", EntryPoint = "MyFunc")]

public static extern int Func42 (int intAction, int intOption, uint

uValue);

Answer: "MyFunc"

6. You have been given the task of designing a web service to expose the data

that is stored in a database on the server. In order to successfully build the

web services, you need to import some namespaces. What is the minimum

namespace you need to import?

A. System.Web

B. System.WebServices

C. System.Web.Services

D. System.Web.ServiceModel

Answer: Web.Services

7. You have designed an event for the class you are working on, and the event is

declared as follows:

// declare the delegate for the event

public delegate int MugEmptyHandler(int RefillVolume);

// declare the event

public static event MugEmptyHandler OnMugEmpty;

When you try to register the event in the client code by using the following

line, you receive a syntax error:

this.OnMugEmpty += new MugEmptyHandler(this.Mug\_Empty);

You need to make the OnMugEmpty event functional. What will you do?

A. Change the declaration of the event to indicate the parameter.

B. Change the declaration of the event to indicate the return type.

C. Change the declaration of the delegate to have no parameters.

D. Change the declaration of the delegate to have a void return type.

Answer: a void return type.

8. You are building an event handler for the SendFax event from the sFax

component, and you have written the following code:

private void Send\_Fax()

{

Console.WriteLine("Fax is sent");

}

When you test the event handler, you find that it never runs. What code must

be added to your application to make the event execute in response to the

SendFax event?

A. public delegate SendFax(Send\_Fax);

B. this.sFax.SendFax += new SendFaxHandler(this.Send\_Fax);

C. public event SendFax(Send\_Fax);

D. this.sFax.SendFax =+ new SendFaxHandler(this.Send\_Fax);

Answer: Fax += new SendFaxHandler(this.Send\_Fax);

9. Your manager has asked you to describe what you would use application

variables for. What statement best describes the use of application variables?

A. Application variables are used to keep state for each connected user.

B. Application variables are used to keep state for the web site.

C. Application variables are used to keep state for all the applications on

the server.

D. Application variables are used to keep state for all application objects in

the web site.

Answer: the web site.

10. You are using Visual Studio .NET to set up a reference to a COM component,

but the reference operation fails. What is one possible solution?

A. Register the COM component with .NET using TlbImp.exe.

B. Register the COM component using wsdl.exe.

C. Move the COM component to the bin directory of the application.

D. Register the COM component in the Registry using Regsvr32.exe.

Answer: Regsvr32.exe.

11. What information do you need to have in order to successfully reference a web

service using the Add Reference dialog box?

A. The URI for the web service’s .asmx file.

B. The URL for the web service’s .asmx file.

C. The URL for the web service’s disco file.

D. The URI for the web service’s disco file.

Answer: URL .asmx file.

12. You have defined some web service methods, but when you test the web

service, you do not have the methods available. The web service is defined

as follows:

[WebMethod]

private void email(string to, string[] message, int option)

{

…

}

What will you do to solve the problem?

A. Replace the attribute with [WebServiceMethod].

B. Make the method public.

C. Change the string[] to an object array.

D. Change the return type to int.

Answer: Make the method public.

13. You find that after running the following command line commands from the

root directory of your web site that the web service is not available:

>wsdl /l:cs /o:Address.cs http://localhost/Address/Address.asmx?WSDL

/n:AddressService

>csc /out:AddressProxy.dll /t:library /r:system.web.dll, system.dll,

system.xml.dll, system.web.services.dll, system.data.dll Address.cs

What will you do to make the web service available with the least amount of

code and work?

A. Run the following command:

regsvr32 /.NET AddressProxy.dll

B. Rerun the csc command specifying /o:bin/AddressProxy.dll.

C. Rebuild the AddressProxy.dll file using the /AutoPost option.

D. Rebuild your application after adding the reference to the web service.

Answer: Rerun the csc command specifying /o:bin/AddressProxy.dll.

14. You have designed a web form that has one listbox control. You have

implemented the SelectedIndexChanged event handler, and you have

verified that all required declarations are in place and that the event handler is

registered. During testing of the form, you find that the event does not execute.

What is the most efficient way to make the event execute?

A. Set the AutoPostBack attribute of the listbox control to False.

B. Set the AutoPostBack attribute of the @ Page directive to True.

C. Set the AutoPostBack attribute of the listbox control to True.

D. Change from the listbox control to the DropDownList control.

Answer: to True.

1. What HTML element is the asp:Label control rendered as when the target is

Internet Explorer?

A. <label>

B. <span>

C. <div>

D. <table>

Answer: <span>

2. What HTML element is the asp:Label control rendered as when the target is

Netscape Communicator?

A. <label>

B. <span>

C. <div>

D. <table>

Answer: <span>

3. What is the result when a Web Form containing the following line is compiled

and executed?

<asp:Button id="theButton" onClick="theEvent" />

A. The button control is created; theEvent is the Click event handler.

B. Compiler error; the control must be set to runat="server".

C. Compiler error; onClick is not a valid attribute.

D. Runtime exception; the control must be set to runat="server".

Answer: Runtime exception; the control must be set to runat="server".

4. What HTML element is the asp:panel control rendered as?

A. <span>

B. <table>

C. <div>

D. <p>

Answer: <div>

5. How do you specify the parameters for the ads in the AdRotator control?

A. By programmatically setting the properties.

B. By using an initialization file in .xml format.

C. By using an initialization file in .txt format.

D. By using an initialization file in .ini format.

Answer: .xml format.

6. What of the following best describes a user control?

A. A collection of server controls gathered in a web file with the

<%@ Control %> directive.

B. A collection of controls that are compiled into an assembly.

C. A control that is built from multiple user-defined COM-based controls.

D. A simple lightweight control that can display text only.

Answer: <%@ Control %>

7. Which of the following is valid after adding the following directive to

a Web Form?

<%@ Register TagPrefix="WWW" TagName"WWWControl" Src="WWWControl1.ascx" %>

A. <WWW:WWWControl1 id="theControl" runat="server" />

B. <asp:WWWControl id="theControl" runat="server" />

C. <WWW:WWWControl id="WWWContr" runat="server" />

D. <asp:WWWControl1 id="WWWContr" runat="server" />

Answer: WWW:WWWControl

8. You have correctly added the <%@ Register %> directive and the user-control

definition in the <asp:Form> tag, but when you run the application it fails.

What is the most likely cause of the failure?

A. The protected class variable for the control is missing from the codebehind

module.

B. The event registration is not performed; you must manually add it to the

InitializeComponent event handler.

C. There must be a call to the control’s constructor in the Page\_load()

method.

D. The control must be added to the Web Form’s Controls collection.

Answer: The protected class variable for the control is missing from the codebehind module.

9. After building a custom control, you test it by adding an ASP.NET web application

to the solution. You add a correct <%@ Register %> directive and a proper

declaration of the control in the <asp:Form> tag to the Web Form, but when

you execute the application you get an error. What is the most likely reason for

the problem?

A. The custom control must be compiled first.

B. The web application must have a reference to the control.

C. The custom control must be registered with Windows first.

D. The assembly from the custom control is not in the application’s bin

directory.

Answer: The assembly from the custom control is not in the application’s bin directory.

10. You have successfully created a custom control and a web application project to

test the control. The application runs with no problems, but when you look at

the Design view of the Web Form, the control is displayed using an error display.

What is the most efficient way to resolve the error display?

A. Move the control to the web application’s bin directory, and recompile the

application.

B. Add a reference to the control to the web application.

C. Change the Bindable attribute for the Default property in the control

to have a value of True.

D. Manually enter the 128-bit GUID for the control in the application’s

configuration file.

Answer: Add a reference to the control to the web application.

11. What method must be overridden in a custom control?

A. The Paint() method.

B. The Control\_Build() method.

C. The Render() method.

D. The default constructor.

Answer: The Render() method.

12. Your manager has asked you if ASP.NET can be used with dynamic control

creation, and if it requires any extra software to make dynamic controls possible.

What would you answer your manager?

A. Yes, dynamic controls are possible using the standard control containers

from ASP.NET.

B. No, dynamic controls are not possible in ASP.NET.

C. Yes, dynamic controls are possible in ASP.NET using a third-party assembly.

D. Yes, dynamic controls are possible in ASP.NET by using the Web Services.

Answer: using the standard control containers from ASP.NET.

1. What property is used to control how the user can press ALT-F to set the focus to

a control?

A. AccessKey

B. ControlOrder

C. TabOrder

D. TraceOrder

Answer: AccessKey

2. You have created a localized web application that supports English, French,

German, and Spanish. After building the resource files, you code all the strings

to come through the ResourceManager.GetString() method. You test

the application by using the browser on your development computer, and as

you switch languages in the Regional Settings, everything functions as expected.

After deploying the application, you receive a message from a client saying that

the application does not change when the client accesses it with a computer

configured to use the French locale. You need to fix the application. What will

you do?

A. Rebuild the resource assembly.

B. Add code to change the current thread’s culture to the user’s culture.

C. Add code to change the location of the resource assembly.

D. Instruct the user to upgrade to a newer browser.

Answer: current thread’s culture to the user’s culture.

3. What is used to validate complex string patterns like an e-mail address?

A. Extended expressions.

B. Regular expressions.

C. Irregular expressions.

D. Basic expressions.

Answer: Regular expressions.

4. What is the default language for the fallback culture?

A. English.

B. Swedish.

C. User’s setting.

D. Neutral.

Answer: Neutral.

5. What namespace is needed for Event Log support?

A. System.Event

B. System.Diagnostics

C. System.EventLog

D. System.Diagnostics.Event

Answer: Diagnostics

6. What property controls whether the text in a TextBox control is displayed in

clear text or as a collection of \* characters?

A. PasswordCharacter

B. Hide

C. Encrypt

D. TextMode

Answer: TextMode

7. You need to customize the error messages from your web application. What

file will you modify to customize the error messages?

A. Web.config

B. Error.config

C. Application.config

D. global.asax

Answer: Web.config

8. What property is set in order to display the text in reverse flow order?

A. rtl

B. ltr

C. dir

D. reverse

Answer: dir

9. You have configured custom error pages for your application. When you test

the pages from a co-worker’s computer, they display properly, but when

displayed in your browser on the development computer, they display

incorrectly. What will you do to correct the display of the error pages on

your computer?

A. Install Internet Explorer 6.0.

B. Change the mode attribute to localhost in the Web.config file.

C. Change the mode attribute to RemoteOnly in the Web.config file.

D. Change the mode attribute to On in the Web.config file.

Answer: On in the Web.config file.

10. After adding messages to the trace log, you need to locate the output. What

section contains the messages a developer has added to the trace log?

A. Trace Information.

B. Control Tree.

C. Cookies.

D. Headers Collection.

E. Server Variables.

Answer: Trace Information.

11. What file would you modify to implement application-wide error processing

for all unhandled errors?

A. Web.config

B. Error.config

C. Application.config

D. global.asax

Answer: global.asax

12. What property is used to control the order in which the controls are accessed?

A. AccessKey

B. ControlOrder

C. TabIndex

D. TraceOrder

Answer: TabIndex

13. How do you enable tracing?

A. Set the Trace property of the Web Form to True.

B. Set the Trace property of the Server object to True.

C. Set the Session variable Trace to True.

D. Set the Applications variable Trace to True.

Answer: Web Form to True.

14. What control is used to validate that two fields are equal?

A. RequiredFieldValidator

B. RegularExpressionValidator

C. CompareValidator

D. The equals() method of the field.

Answer: CompareValidator

15. What method is used to insert a highlighted entry in the trace output?

A. Trace.Write()

B. Trace.HighLight()

C. Trace.Error()

D. Trace.Warn()

Answer: Trace.Warn()

1. What is the SQL equivalent of the DataSet relation object?

A. XOR JOIN

B. CROSS JOIN

C. OUTER JOIN

D. INNER JOIN

Answer: INNER JOIN

2. Why should you close all database objects and set them to NULL before leaving

the method where the objects were created?

A. To ensure that the object’s destructors are called.

B. To ensure that the connection to the database is closed as soon as possible.

C. To ensure that the objects can be reused.

D. Good coding practice.

Answer: connection to the database is closed as soon as possible.

3. What is the purpose of the following code segment?

if ( !IsPostBack )

{

sqlDataAdapter1.Fill(dsUsers1);

DataGrid1.DataBind();

}

A. To populate the DataAdapter the first time the web page is displayed.

B. To populate the DataSet every time the web page is displayed.

C. To populate the DataAdapter every time the web page is displayed.

D. To populate the DataSet the first time the web page is displayed.

Answer: DataSet the first time the web page is displayed.

4. Where are stored procedures saved?

A. The GAC.

B. The web server.

C. The database server.

D. The central store.

Answer: The database server.

5. What is the root exception for the ADO.NET objects?

A. DataException

B. ADOException

C. Exception

D. DBException

Answer: DataException

6. What best describes the xxxDataReader?

A. A disconnected collection of tables.

B. A manager that manages the connection to a data source, using four SQL

statements.

C. A connected, read-only, forward-only representation of the data source.

D. The component that encapsulates the database driver.

Answer: A connected, read-only, forward-only representation of the data source.

7. You are the developer of a Web Form, and you need to display data from a

Microsoft SQL Server 6.5 in a DataGrid on your form. What DataAdapter is

the most appropriate?

A. sqlDataAdapter

B. oleDbDataAdapter

C. odbcDataAdapter

D. adoDataAdapter

Answer: oleDbDataAdapter

8. What is the purpose of the last string ("{0}") in the following code segment?

DataBinder.Eval(dS1, "Tables[SP\_SelUsers].DefaultView.[0].LastName",

"{0}");

A. It is the formatting string for the bound data.

B. It is the default value that will be used when the data is NULL.

C. It is the parameter sent to the stored procedure SP\_SelUsers.

D. It is the placeholder for a DataBinding object.

Answer: formatting string for the bound data.

9. What is the correct namespace for use with the SQL .NET Data Provider objects?

A. System.SQL

B. System.Data.SqlConnections

C. System.Data.SqlClient

D. System.SqlConections

Answer: Data.SqlClient

10. What is the correct statement to use for declaring that an xxxCommand object is

used with a table?

A. aCmd.CommandType = CommandType.Table;

B. aCmd.CommandType = Table;

C. aCmd.CommandType = "Table";

D. aCmd.CommandType = "CommandType.Table";

Answer: CommandType.Table;

11. How many sqlDataReader objects can be open on one Connection at one

time?

A. 4

B. 3

C. 2

D. 1

Answer: 1

12. What is the SQL wildcard character?

A. \*

B. %

C. &

D. @

Answer: %

13. You need to connect to a Microsoft SQL Server version 6.5. What Connection

object is the best choice?

A. sqlConnection

B. oleDbConnection

C. ODBCConnection

D. You must upgrade; there is no connection object for this database.

Answer: oleDbConnection

14. You are using the try... catch block seen in the following code segment,

but no exceptions are ever caught by the catch block. What is the problem?

sqlConnection cn =new sqlConnection(strSQL);

sqlDataSet ds;

try

{

cn.Open();

//perform the data processing steps

...

}catch(OleDbException e){

...

}

A. The exception class is wrong; it should be SqlErrors.

B. The exception class is wrong; it should be SqlSyntaxExceptions.

C. The exception class is wrong; it should be SqlExceptions.

D. The exception class is wrong; it should be SQLExcptions.

Answer: SqlExceptions.

15. You are designing a Web Form that needs to have data available for as long as

eight hours at a time. Your manager has raised some concern that the database

server will be unable to provide services to a large number of connected users.

What object in the ADO.NET architecture will you bring to your manager’s

attention as a possible solution?

A. SQL disconnected recordsets.

B. oleDbDataReader

C. ODBCRecordSet

D. oleDbDataSet

Answer: oleDbDataSet

1. You are the developer of a web application that is retrieving historical sports

information from a database server and displays it to the users of your application.

What cache strategy will give you the best performance?

A. Use the output cache.

B. Use the cache object.

C. Use the ASP.NET central cache.

D. Use the client cache.

Answer: output cache.

2. You are the developer of a web application and have decided to use the output

cache in ASP.NET. Which of the following statements correctly defines the Web

Form if you want to use the output cache, cache all items for 14 minutes, and

store different versions of the cached objects for each customer ID?

A. <%@ OutputCache Duration="840" VaryByCustom="true" %>

B. <%@ OutputCache Duration="14" VaryByCustom="true" %>

C. <%@ OutputCache Duration="840" VaryByParam="Customer ID" %>

D. <%@ OutputCache Duration="14" VaryByParam="Customer ID" %>

Answer: 840 ustomer ID

4. You are configuring security for a web application that will be used on your

company intranet. Your company is using Intel-based as well as Apple computers

running Windows and other operating systems. The following is part of the

Web.config file for the application:

<configuration>

<authentication mode="<<Enter Answer Here>>">

<forms>

loginUrl="login.aspx"

protection="All"

timeout="30"

path="/"

</forms>

</authentication>

</configuration>

What will you replace "<<Enter Answer Here>>" with to successfully have

all users authenticate to the application?

A. Forms

B. Basic

C. Digest

D. Windows

Answer: Forms

5. What should be added to basic authentication?

A. FTP

B. TCP

C. SSL

D. NHL

Answer: SSL

6. You are deploying a web application using the XCOPY method, and you are

now selecting the files that should be included in the deployment. What file

extensions must be included in the deployment? Select all that apply.

A. .resx

B. .aspx

C. .cs

D. .ini

Answer: .aspx

7. You have just installed IIS on your desktop computer that is running Windows

2000 Professional. Directly after the installation, you try to create a web application

and you are given error messages indicating that the Internet server is incompatible

with the .NET Framework. You need to create a web application, so what is the

fastest way to be able to do so?

A. Configure the FrontPage Server Extensions.

B. Repair the .NET Framework installation from the Visual Studio .NET Windows

Component update CD.

C. There is no solution. Windows 2000 does not support .NET Framework web

application development.

D. Re-boot the computer.

Answer: Repair the .NET Framework install

8. What is required in order to be able to install and use SSL on a web server?

A. Export permission.

B. The SSL add-on CD.

C. Server certificate.

D. Encryption key.

Answer: Server certificate.

10. True or false. The Web.config file can be used to store configuration data for

properties of some controls.

A. True.

B. False.

Answer: True.

11. What tool is used to manage the GAC?

A. GacMgr.exe

B. GacSvr32.exe

C. GacUtil.exe

D. RegSvr.exe

Answer: GacUtil.exe

12. What is the effect of the following code snippet from the Web.config file?

...

<system.web>

<authorization>

<deny users="?" />

</authorization>

</system.web>

A. Anonymous access is denied.

B. Only anonymous access is allowed.

C. Users in the default group are denied access.

D. There will be a syntax error when the application is executed.

Answer: Anonymous access is denied.

13. You are deploying the web application you have been developing to a

production server. Your application uses a number of resource assemblies and

also one utility assembly that has been developed for the web application. You

deploy the application by using a file-archiving utility to package all the .aspx

and Web.config files into the archive, and the application is installed on

the production server by un-packing the archive in the target directory. The

deployment did not generate any error messages; but when you are testing the

application, you find that it does not work. None of the localized resources

display anything, and there are a large number of errors displayed. You need

to make the application function normally—what is the most efficient way to

achieve that goal?

A. Enable tracing for the application, trace to an XML file, analyze the output,

and correct the source of the problems.

B. Copy the /bin directory from the development system to the production

server.

C. Install Visual Studio .NET on the production server; enable debugging; and

single-step through the application, correcting all problems as they appear.

D. Abort the deployment, and inform the customer that you will be back as

soon as you have found the problem.

Answer: Copy the /bin directory f

14. True or false. The GAC cannot store multiple versions of the same assembly.

A. True.

B. False.

Answer: False.

15. You are configuring your web application to require digest-based authentication.

What must you have in place before you can use digest-based authentication?

A. A DNS server.

B. Active Directory.

C. Strong encryption keys.

D. A strongly named Web.config file.

Answer: Active Directory.

1. Which of the following methods are ways to create a Windows Form?

A. Visual inheritance.

B. Building a derived class from System.Windows.Forms.Form.

C. Extending a prebuilt form.

D. Selecting a form class from the Inheritance Picker.

E. All of the above.

Answer: All of the above.

4. You want to add a control to your form that allows you to set a particular

option on or off. Which control would you choose?

A. Button

B. CheckedListBox

C. CheckBox

D. ListBox

E. RadioButton

Answer: CheckBox

7. When you set the Localization property of a form to True, which of the

following happens?

A. You allow the application to accept localization resources.

B. The form is translated into the language specified in the Language

property.

C. The property asks you for the translation language.

D. The program prompts you to provide a language resource.

Answer: You allow the applicat

8. By setting the Text property on the form, you will cause the value of the Text

property to display on which part of the form?

A. Bottom-right corner

B. Top-right corner

C. Title bar

D. Status bar

Answer: Title bar

10. What would the outcome of an application that contained this code be?

private void Form1\_Load (object sender, System.EventArgs e)

{

Form1.Hide();

}

A. The application would not compile.

B. The program would run but no form would display.

C. The program would run and display the form.

D. A runtime error would occur.

Answer: application would not compile.

11. What would the outcome of an application that contained this code be?

private void Form1\_Load (object sender, System.EventArgs e)

{

this.Hide();

}

A. The application would not compile.

B. The program would run but no form would display.

C. The program would run and display the form.

D. A runtime error would occur.

Answer: and display the form.

13. Which of the following are not methods of a

System.Windows.Forms.Form object?

A. Activate()

B. Deactive()

C. Form()

D. OnCreate()

Answer: Deactive()

14. Which of the following are not events of a

System.Windows.Forms.Control?

A. KeyPress

B. KeyDown

C. MousePress

D. MouseMove

E. MouseEnter

Answer: MousePress

15. In which namespace would you find the class Application?

A. System.Application

B. System

C. System.Window.Forms

D. System.Windows.Forms

Answer: Windows.Forms

1. If you want to ask the user to select between two or more mutually exclusive

options, you would employ which of the following controls?

A. TabControl

B. Button

C. RadioButton

D. CheckBox

Answer: RadioButton

2. The following piece of code is intended to create a new TabPage in a

TabControl. What will happen when you try to run this code?

TabPage tpMyNewTabPage = new TabPage();

tpMyNewTabPage.Caption = "Add Students";

tpMyNewTabPage.Size = new System.Drawing.Size (536, 398);

Button b = new Button();

tpMyNewTabPage.Controls.Add (b);

A. The program compiles and executes properly.

B. The program compiles and causes a runtime error.

C. The program does not compile because it is unable to add the button.

D. The program does not compile because of a syntax error.

Answer: syntax error.

3. The following piece of code is intended to create a new TabPage in a

TabControl. What will happen when you try to run this code?

TabPage tpMyNewTabPage = new TabPage();

tpMyNewTabPage.Text = "Add Students";

tpMyNewTabPage.Size = new System.Drawing.Size (536, 398);

Button b = new Button();

tpMyNewTabPage.Controls.Add (b);

A. The program compiles and executes properly.

B. The program compiles but the tab page does not show.

C. The program compiles and causes a runtime error.

D. The program does not compile because of a syntax error.

Answer: does not show.

4. You want to validate the user input that is retrieved in a text box. Which control

will assist you in displaying the error message without moving off the form?

A. RichTextBox

B. NotifyIcon

C. HelpProvider

D. ErrorProvider

Answer: ErrorProvider

5. You want to validate the user input that is retrieved in a text box. Which event

will assist you in the validation of the data?

A. UponValidation

B. Validation

C. Validating

D. OnValidation

Answer: Validating

6. Which of the following lines of code will produce a message box for the user?

A. MessageDialogBox.Show ("This is your message");

B. MessageDialogBox.Show ("Message", "This is your message");

C. MessageBox.Show ("This is your message);

D. MessageBox.Show ("Message", "This is your message");

Answer: MessageBox.Show

7. To dynamically add a context menu to your application, which section of code

should be used?

A. MenuItem m = new MenuItem();

contextMenu1.MenuItems.Add (m);

B. MenuItem m = new MenuItem();

contextMenu1.MenuItem.Add (m);

C. MainMenu m = new MainMenu();

contextMenu1.MenuItems.Add (m);

D. MainMenu m = new MainMenu();

contextMenu1.MenuItem.Add (m);

Answer: .MenuItems.

8. To produce a dialog box similar to the Windows Print dialog box, which of the

following controls would you use?

A. PrintPreviewDialog

B. PrintDialog

C. PrintBox

D. SetupPrintDialog

Answer: PrintDialog

9. Which property of the CheckedListBox allows you to preset the maximum

number of items that can be selected?

A. MaxItems

B. MaximumItems

C. SelectionItems

D. SelectionMode

Answer: SelectionMode

10. What is wrong with the following piece of code? Assume no other code has

been written and you are creating the status bar dynamically.

this.sbMyStatusBar.Panels[1].Text = "Panel 1";

this.sbMyStatusBar.Panels[2].Text = "Panel 2";

this.sbMyStatusBar.Panels[3].Text = "Panel 3";

A. Nothing is wrong with the code.

B. It will cause a runtime error.

C. There will be a syntax error found.

D. The Text property is incorrect for a StatusBar.

Answer: It will cause a runtime error.

11. Which line of code must be added in order to show a StatusBar?

A. sbMyStatusBar.Show();

B. sbMyStatusBar.Display();

C. sbMyStatusBar.Show = true;

D. sbMyStatusBar.Display = true;

Answer: Show = true;

12. Which line of code will set the Link data for a LinkLabel?

A. this.linkLabel1.Text = "http:\\www.microsoft.com";

B. this.linkLabel1.Link = "http://www.microsoft.com";

C. this.linkLabel1.HyperLink = "http://www.microsoft.com';

D. None of the above.

Answer: None of the above.

14. Which property will allow the user to enter more than one line in a text box?

A. MaxLines

B. MultipleLines

C. MultiLines

D. MultiLine

Answer: MultiLine

15. Which control would you use to group a lot of controls together?

A. GroupControl

B. GroupBox

C. FrameControl

D. FrameBox

Answer: GroupBox

1. Which code segment will populate a DataSet?

A. sqlDataProvider1.Fill (dsUsers1);

B. sqlDataProvider.Fill (dataAdapter1);

C. sqlDataAdapter.Fill (dsUsers1);

D. sqlDataAdapter.Fill (dataAdapter1);

Answer: Adapter (dsUsers1);

2. What type of commands can you create?

A. Text, stored procedures, and tables.

B. Text, stored procedures, and TableRows.

C. Text, stored procedures, and TableDirect.

D. Text, stored procedures, and TableColumns.

Answer: TableDirect.

3. Data access exceptions all derive from which base class?

A. Sql.Data.Exceptions

B. Sql.SqlDataExceptions

C. Exception

D. DataException

Answer: DataException

4. You need to get access to a database that is stored on a server running

Microsoft Access 2002. Which data adapter would you use?

A. SqlDataAdapter

B. OleDbDataAdapter

C. OleDataAdapter

D. ODBCDataAdapter

Answer: OleDbDataAdapter

5. You need to get access to a database that is stored on a server running

Microsoft SQL Server 2000. Which data adapter would you use?

A. SqlDataAdapter

B. OleDbDataAdapter

C. OleDataAdapter

D. ODBCDataAdapter

Answer: SqlDataAdapter

6. You want to return XML data from a Microsoft SQL Server 7.0 database.

Which method would you execute?

A. ExecuteXmlReader()

B. ExecuteXmlData()

C. ExecuteOleReader()

D. ExecuteOldData()

Answer: ExecuteXmlReader()

7. The Parse event is triggered after which of these occurrences?

A. Data is sorted.

B. Data is filtered.

C. Data is bound to a control.

D. Data is returned to the data source.

E. All of the above.

F. None of the above.

Answer: returned to the data source.

8. The Format event is triggered after which occurrences?

A. Data is sorted.

B. Data is filtered.

C. Data is bound to a control.

D. Data is returned to the data source.

E. All of the above.

F. None of the above.

Answer: All of the above.

12. Which of the following object types allow you to view read-only,

forward-only data?

A. DataAdapter

B. DataSet

C. DataReader

D. DataCommand

Answer: DataReader

13. Which of the following statements is correct?

A. The DataSource property refers to the dataset object, and the

DisplayMember refers to the field.

B. The DataMember property refers to the dataset object, and the

DataSource refers to the field.

C. The DataMember property refers to the field, and the DataSource

refers to the dataset object.

D. The DisplayMember property refers to the dataset object, and the

DataSource refers to the field.

Answer: DataSource

14. Why does the data not display using the following code?

studentConnection.Open();

studentCommand = studentConnection.CreateCommand();

studentCommand.CommandType = CommandType.Text;

studentCommand.CommandText = "SELECT \* FROM Student";

studentAdapter = new SqlDataAdapter (studentCommand);

studentSet = new DataSet();

this.txtFirstName.DataBindings.Add ("Text", studentSet, "FirstName");

A. The command object is instantiated incorrectly.

B. The dataset object is instantiated incorrectly.

C. The data binding is done incorrectly.

D. The dataset has not been populated.

Answer: has not been populated.

1. Where should a web service proxy file be located?

A. In the \bin directory of My Documents.

B. In the \lib directory of the application.

C. In the \bin directory of the application.

D. In the \lib directory of My Documents.

Answer: \bin application.

3. Which command-line tool will create a web service proxy?

A. isdlam.exe

B. ildasm.exe

C. tlbimp.exe

D. wsdl.exe

Answer: wsdl.exe

4. Which command-line tool will allow you to view an assembly?

A. isdlam.exe

B. ildasm.exe

C. tlbimp.exe

D. wsdl.exe

Answer: ildasm.exe

5. Which command-line tool will generate the proxy for a COM component?

A. isdlam.exe

B. ildasm.exeC. tlbimp.exe

D. wsdl.exe

Answer: wsdl.exe

6. Which of the following will display the Web Services on a remote IIS server

(named www.hmr.com) in an assembly called MyServices?

A. http://hmr.com/MyServices/ServiceName

B. http://www.hmr.com/MyServices/ServiceName

C. url://hmr.com/MyServices/ServiceName

D. url://www.hmr.com/MyServices/ServiceName

Answer: http://www

8. What must be done to be ready to consume a web service?

A. Build a proxy library using wsdl.exe.

B. Build a proxy library using csc.exe.

C. Build a proxy library using TblImp.exe.

D. Build a proxy library using pl.exe.

Answer: wsdl.exe.

11. Which namespace is added to a program that calls a web service?

A. using System.WebServices;

B. using System.Web.Services;

C. using System.Web.Services.List;

D. using System.Web.Services.All;

Answer: Web.Services;

12. Which URL will provide access to the web service called MyWebService,

located in the WebServices web on the local machine?

A. http://localhost/MyWebService/WebServices.asmx?WSDL

B. http://localhost/WebServices/WebServices.asmx?WSDL

C. http://localhost/MyWebService/MyWebService.asmx?WSDL

D. http://localhost/WebServices/MyWebService.asmx?WSDL

Answer: ices/MyWebS

13. A discovery file used to locate Web Services would have which extension?

A. .discovery

B. .discover

C. .vdisco

D. .disco

Answer: .vdisco

14. When you test a web service, what do you expect to see as output?

A. The web service running.

B. The web site.

C. The XML of the web proxy.

D. The XML of the web service.

Answer: web proxy.

15. Which attribute must be added to create an exposed web service method?

A. [System.WebServices.WebMethod]

B. [System.Web.Services]

C. [System.Web.Services.Web.WebMethod]

D. [System.Web.Services.WebMethod]

Answer: Services.WebMethod]

1. Which file must be included in the assembly in order to provide a list of

licensed controls within the application?

A. xxxx.LIC

B. xxxx.LCX

C. xxxx.LICX

D. xxxx.Licenses

Answer: xxxx.LICX

2. You are planning to create a new control that will be used in place of the

Button control. The new control will blink and change color whenever the

user moves the mouse over the control. Which control type would you use?

A. Derived control from the Button class.

B. Derived control from the Control class.

C. Derived control from the UserControl class.

D. Customized control using GDI+.

Answer: Button class.

1. Which tool allows you to install an assembly into the GAC?

A. Ngen.exe

B. Mscorcfg.msc

C. Setup.exe

D. sn.exe

Answer: Ngen.exe

2. Which of the following accurately describes a strong named assembly?

A. A private assembly with a unique name within an application domain.

B. A private assembly with a unique name within a global domain.

C. A shared assembly with a unique name within an application domain.

D. A shared assembly with a unique name within a global domain.

Answer: private global

3. Which template must be chosen from the Add New Project dialog box’s

Templates list in order to have an application downloaded from an IIS

(Internet Information Server) server?

A. Windows Setup Project.

B. CAB Project.

C. IIS Project.

D. Web Setup Project.

Answer: Web Setup Project.

4. You have followed the steps in creating a Windows Installer Setup project, and

after deployment you notice that it does not install properly on the client.

Which of the following could be the problem?

A. You forgot to run the sn.exe utility.

B. The shortcut was not configured properly.

C. The release type is set to Debug.

D. The Registry entry is incorrect.

Answer: The release type is set to Debug.

5. Why did Microsoft invent assemblies?

A. To allow applications to take care of their own components.

B. To speed up processing.

C. To confuse developers studying for the .NET development exams.

D. To ensure that all components register properly in the Registry.

Answer: To allow applications to take care of their own components.

7. What can be configured using the .NET Configuration tool?

A. GAC cache.

B. Assemblies.

C. Security.

D. Policy levels.

E. All of the above.

F. None of the above.

Answer: All of the above.

8. Which of the following command-line entries would allow you to install an

assembly into the GAC?

A. gacutil /l myAssembly.exe

B. gacutil /i myAssembly.exe

C. gacutil /s myAssembly.exe

D. gacutil /h myAssembly.exe

Answer: Ngen.exe /cache

9. Which command would you use to list the existing files in the native image

cache?

A. Ngen.exe /list

B. Ngen.exe /cache

C. Ngen.exe /debug

D. Ngen.exe /show

Answer: Ngen.exe /show

11. If the redistributable package is to be installed on a server, what must be in place?

A. .NET Framework

B. SQL Server

C. MDAC 2.6

D. CLR

Answer: MDAC 2.6

12. Why is the Setup project name important?

A. Setup looks for files under that name.

B. It is the name in the Add/Remove Programs dialog box.

C. There cannot be any spaces in the name.

D. The name goes in the Registry.

Answer: It is the name in the Add/Remove Programs dialog box.

14. Which line must exist in the AssemblyInfo.cs file in order to “sign”

the assembly?

A. [assembly: AssemblyKeyFile("")]

B. [key: AssemblyKeyFile("")]

C. [assembly: AssemblyKeyFile("myKeys.snk")]

D. [key: AssemblyKeyFile("myKeys.snk")]

Answer: assembly myKeys.snk

15. Where is the GAC located by default?

A. Windows directory.

B. Programs directory.

C. Documents and Settings directory.

D. Application directory.

Answer: Windows directory.

1. You are responsible for adding localization to an existing Windows Form.

What class will determine the locale of the runtime environment?

A. ResourceManager

B. Localization

C. Globalization

D. CurrentUICulture

Answer: CurrentUICulture

2. Which tool can you use to configure the security settings for an application?

A. mscorcfg.msc

B. ngen.exe

C. caspol.exe

D. caspol.msc

Answer: mscorcfg.msc

3. Which tool can you use to precompile a Windows application?

A. mscorcfg.msc

B. ngen.exe

C. caspol.exe

D. caspol.msc

Answer: ngen.exe

4. Which security file will override the machine configuration file?

A. Enterprise configuration

B. Application configuration

C. Security configuration

D. User configuration

Answer: Application configuration

9. What are the three different policy-configuration files?

A. Enterprise, Machine, User.

B. Enterprise, Machine, Local.

C. Enterprise, Security, Local.

D. Enterprise, Security, User.

Answer: Ent Mac User.

11. What type of array is the most efficient to work with?

A. Rectangular array

B. One-dimensional array

C. Two-dimensional array

D. Jagged array

Answer: Jagged array

12. Which code-access class can be used to represent permissions related to

network access?

A. NetworkPermission

B. RemotePermission

C. URLPermission

D. SocketPermission

Answer: SocketPermission

13. Which of the following represents a union of permissions?

A. A collection of code groups.

B. A collection of permissions.

C. A collection of intersections.

D. A collection of evidence.

Answer: code groups.

15. What must be done to create a ToolTip on a new Windows control?

A. Add a ToolTip control and set the ToolTip property of the new control.

B. Set the ToolTip property of the new control.

C. Set the Help property of the new control.

D. Create a MessageBox that displays when the user clicks the new control.

Answer: Create a MessageBox

3. Which namespace must be added to the XML web service in order to write to

an event log?

A. System.EventLog

B. System.Events

C. System.Diagnostics

D. System.Diagnostics.Event

Answer: Diagnostics

4. Which technology allows you to publish XML web services?

A. XMLPub

B. XSLT

C. XPath

D. UDDI

Answer: UDDI

6. Which of the following describes the elements that make up a SOAP message?

A. Envelope, Header, Body, Fault.

B. Envelope, Header, Body, Error.

C. Envelope, Body, Fault.

D. Envelope, Header, Fault.

Answer: En He Bo Fa

7. Which of the following technologies are used to describe a web service in terms

of the messages that it creates and the messages that it accepts?

A. XMLS

B. XSLT

C. CORBA

D. WSDL

Answer: WSDL

8. What is the default namespace for a new web service?

A. http://localhost

B. http://www.w3.org

C. http://tempuri.org/

D. http://www.microsoft.com

Answer: tempuri.org/

10. How would you add a web service component to your Visual Studio .NET

application?

A. Project | Add Web Component

B. Project | Add Component

C. Project | Add Web Service

D. Project | Add Service

Answer: Add Service

11. A static discovery file will usually have a file extension of which of the

following?

A. .vsdisco

B. .vdisco

C. .sdisco

D. .disco

Answer: .disco

12. Which of the following technologies is a lightweight protocol for exchange of

information in a decentralized, distributed environment?

A. XML

B. WSDL

C. XSD

D. SOAP

Answer: SOAP

13. Which of the following technologies is a file that defines the structure and

data types for XML documents?

A. XSD

B. XMLD

C. XSLT

D. XSL

Answer: XSL

14. You are creating an application that will employ the services of an application

that resides on a remote server. Which of the following protocols should be

used to encode the message to the remote server?

A. SOAP

B. XML

C. RPC

D. DCOM

Answer: SOAP

15. A WSDL document is a file that contains definitions for which of the following?

A. Types, Messages, Bindings.

B. Types, Messages, portTypes, bindings, services.

C. Types, portTypes, bindings, services.

D. Messages, portTypes, bindings, services.

Answer: Ty Me po bi se

2.You are creating a Windows service for Windows ME. You want to install the

service in the Registry. What utility will do this for you?

A. gacutil.exe

B. regsvsc.exe

C. sc.exe

D. installer.exe

E. None of the above.

Answer: None of the above.

3. Which project template will allow you to create a background service in

Visual Studio .NET?

A. Windows service.

B. Web service.

C. Windows application.

D. Service.

Answer: Windows service.

5. You have created a serviced component that will interface with COM+ services.

You want to register the component manually. Which utility will allow you

to do this?

A. gacutil.exe

B. regsvsc.exe

C. install.exe

D. sc.exe

Answer: regsvsc.exe

6. You have created a serviced component that will interface with COM+ services.

You want to register the component automatically. Which utility will allow you

to do this?

A. gacutil.exe

B. regsvsc.exe

C. xcopy.exe

D. sc.exe

Answer: xcopy.exe

8. Where would you find the Add Installer link within Visual Studio .NET?

A. Under the Project menu.

B. Under the Build menu.

C. In the Toolbox.

D. In the Properties Explorer window.

Answer: Explorer window.

9. Which of the following methods will install a Windows service? Choose all

that apply.

A. xcopy.exe

B. regedit.exe

C. setup.exe

D. service.exe

Answer: setup.exe

10. A Windows service must inherit from which class?

A. System.Service.ServiceBase

B. System.ServiceProcess.Service

C. System.ServiceProcess.ServiceBase

D. System.Service.Service

Answer: ServiceBase

11. Which Registry key would lead you to find the installed Windows service?

A. HKEY\_LOCAL\_MACHINE\Services

B. HKEY\_LOCAL\_MACHINE\System\CurrentControlSet\Services

C. HKEY\_LOCAL\_MACHINE\System\Services

D. HKEY\_LOCAL\_MACHINE\CurrentControlSet\Services

Answer: System\Curren

13. Which class will allow you to programmatically work with your Windows service?

A. ServiceController

B. ServiceConfiguration

C. ServiceStatus

D. ServiceControl

Answer: Controller

14. Which method of the ServiceController class will allow you to send

a command to the service?

A. Stop()

B. Start()

C. Pause()

D. ExecuteCommand()

Answer: ExecuteCommand()

15. Which of the following services represent the services that together provide

an enterprise application?

A. Business, Logic, Application

B. Application, Business, Data

C. Presentation, Business, Data

D. Presentation, Logic, Data

Answer: Pre Bu Data

2. In order to have your server component accept method calls that pass the

object by value, your remote server object must implement which interface?

A. IUnknown

B. IMarshalByValue

C. IMarshalByRef

D. ISingleCall

E. ISerializable

Answer: ISerializable

3. You are in charge of creating a remote object that will return database records

to the caller of the method. You want to ensure that the object keeps track of

the number of requests, and writes the number out to the database. Which

activation mode would you use?

A. SingleCall

B. Singleton

C. Client-activated

D. Server-activated

Answer: Singleton

4. You have created a remote object, ChatServer.dll, that is to be deployed to

an IIS server. You need to create a configuration file that will provide location

and type information. Which file would you create?

A. web.config

B. machine.config

C. application.config

D. ChatServer.exe.config

Answer: web.config

11. To which namespace does the Activator class belong?

A. System

B. System.Remoting

C. System.Remote

D. System.Remoting.Activation

Answer: System

13. To which namespace does the HttpChannel class belong?

A. System.Remoting

B. System.Runtime.Remoting.Channels.Http

C. System.Runtime.Remoting

D. System.Runtime.Remoting.Channels

Answer: Channels.Http

14. Which line of code will register a channel?

A. ChannelServices.Register (channel);

B. ChannelServices.RegisterChannel(4242);

C. ChannelServices.Register (4242);

D. ChannelServices.RegisterChannel(channel);

Answer: Channel(channel);

15. In which directory does the <application\_name>.exe.config file belong?

A. In the bin directory of the application.

B. In the root directory of the application.

C. In the \Winnt\System32 directory.

D. In the \Program Files\Microsoft.NET directory.

Answer: root directory

2. Your manager has asked you about interoperability between XML Web Services

and an existing CORBA environment. What wire protocol will you tell your

manager about that will interoperate with CORBA?

A. RPC

B. COM+

C. SOAP

D. DCOM

Answer: SOAP

3. When discussing the XML Web Services architecture, which sentence best

describes the service broker node?

A. Broadcasts the available services.

B. Advertises the available services in Active Directory.

C. Advertises the services that are registered in the Registry.

D. Assists the consumer to find the provider that supplies a particular

web service.

Answer: consumer

5. You want to ensure that your web method uses the cache for results, so you

change the web method attribute to [WebMethod(BufferResponse =

true)]. When you investigate, you find that your web method still is not

using the cache. What is the most efficient way of ensuring that your web

method uses the cache?

A. Add CacheTime=300 to the WebMethod attribute.

B. Add Cache=true to the WebMethod attribute.

C. Add EnableCache=true to the WebMethod attribute.

D. Add CacheDuration=300 as a parameter to the WebMethod attribute.

Answer: parameter to t

6. What is the name of the root element in a WSDL document?

A. definition

B. wsdl\_root

C. xml\_root

D. root

Answer: definition

8. What sentence best describes loosely coupled components?

A. Both components use a common event model to communicate.

B. Both components use public variables and methods to communicate.

C. Both components use only public methods to communicate.

D. Both components use asynchronous methods to communicate.

Answer: asynchronous

9. You need to build a proxy class for an XML web service. What tool will you use?

Select all that apply.

A. cdc.exe

B. wsdl.exe

C. proxy.exe

D. disco.exe

Answer: wsdl.exe

10. When you create an XML web service, it is stored in a source file. What is the

extension of that source file?

A. .xmls

B. .asxm

C. .asmx

D. .asxml

Answer: .asmx

11. By adding the [WebService(Namespace="http://xxx.yyy")] attribute

in front of the class that defines the XML web service, you modify a namespace.

What is that namespace?

A. The namespace of the XML web service.

B. The default namespace of the SOAP messages.

C. The namespace of the ASP.NET server.

D. The default URL that all redirections will go to.

Answer: XML web service.

12. By setting the EnableSession property to True, you have access to what

resources?

A. Nothing. You need to create the session first.

B. Session variables.

C. Application variables.

D. Local variables stored in the Web Method session.

Answer: Session variables.

13. The XML Web service broker stores information about the XML web services

that have published their services to the broker. What structure does the service

broker store the information in?

A. Broker registry.

B. Windows Registry.

C. UDDI registry.

D. XML document.

Answer: UDDI registry.

14. True or false? XML documents contain the data model of the data they contain.

A. True

B. False

Answer: True

15. After creating a proxy class, you compile it. What type of file will the proxy be

compiled to?

A. .dll

B. .asmx

C. .aspx

D. .proxy

Answer: .dll

1. What namespace must be used in order to use the DOM for XML support?

A. System.Data.Xml

B. System.Xml

C. System.Xml.DOM

D. System.DOM

Answer: System.Xml

4. True or False. XML Transformations can be used to create a form letter.

A. True.

B. False.

Answer: False.

6. You are parsing an XML document using an XmlReader. You find that the

resulting node tree is very large compared to the number of elements and

attributes in the XML document. Why would the result of the parsing produce a

large node tree?

A. The WhitespaceHandling parameter is set to WhitespaceHandling.All.

B. The WhitespaceHandling parameter is set to WhitespaceHandling.None.

C. The WhitespaceHandling parameter is set to WhitespaceHandling.Auto.

D. The WhitespaceHandling parameter is set to WhitespaceHandling.Special.

Answer: .All.

7. Which of the following classes supports XML schemas? Select all that apply.

A. XmlReader

B. XmlDocument

C. XmlValidatingReader

D. XmlNodeReader

Answer: ValidatingReader

8. You are developing an application that will connect to a Microsoft SQL Server

6.5, and you need to select the appropriate ADO.NET connection object for this

database server. What ADO.NET connection object is the most appropriate?

A. XxxConnection

B. SqlConnection

C. OleDbConnection

D. OdbcConnection

Answer: OleDbConnection

14. When you build the schema of a DataSet, you need to model the data types

of the data that will reside in the DataColumn objects. What data type would

you use to represent a date?

A. date

B. day

C. System.DateTime

D. variant

Answer: DateTime

15. True or False. HTML must be well formed to be used with XML.

A. True.

B. False.

Answer: True.

1. You need to create a UDDI registry for your company. What are your options

regarding private UDDI registries?

A. Use the Private UDDI SDK from Microsoft.

B. Implement your own private UDDI registry by implementing the entire UDDI

specification.

C. Implement a custom publish/discover architecture.

D. Hard-code the endpoints.

Answer: UDDI registry

statement is used to iterate through the collection to get the information that you want

Answer: foreach

Which of the following features are right to Value Types?

Answer: Allocated on the stack.../Variables of reference.

Data encapsulation can be implemented using:

Answer: All of the others.

Select correct statements about Inheritance in C#:

Answer: An interface can.../A class can implement.

If a base class wishes to define a method that may be overridden by a subclass, it must specify the method as?

Answer: virtual

Which of the following statements about casting are correct?

Answer: None of the others.

A .NET assembly contains the following elements:

Answer: Type metadata/An assembly manifest/CIL code.

The …………… documents each module within the assembly, establishes the version of the assembly, and also documents

any external assemblies referenced by the current assembly?

Answer: manifest

An assembly contains ………… that completely describes the format of the contained types

as well as the format of external types referenced by this assembly.

Answer: metadata.

are required to be located within the same directory as the client application (termed the application directory) or a subdirectory thereof.

Answer: Private assemblies

Which assemblies can be configured using client \*.config file?

Answer: Private assemblies/Shared Assemblies.

A delegate type maintains three important pieces of information:

Answer: The return value (if any) of this method.

.NET Remoting can be applied to two objects communicating in any of the following manners:

Answer: All of the others.

In .NET Remoting, Clients and server objects do not communicate via a direct connection, but rather through the use of an intermediary termed a ………….

Answer: proxy

Which of the following type is different from the others?

Answer: Form

Which method is designed specifically for singleton queries (such as result of aggregate functions)?

Answer: ExecuteScalar().

Which method help protect against SQL injection attacks?

Answer: All of the others.

Buttons, Textboxes, Listboxes are?

Answer: Simple controls.

Which control is used to determine a given value is in a predetermined range?

Answer: RangeValidator.

Which class enables you to share global information across all users (and all pages)?

Answer: HttpApplicationState.

Which of the following server-side methods can be used on the HttpServerUtility to navigate to a different Web page without requiring a round trip to the client?

Answer: Transfer.

You need to write data to a database before a user’s session times out. Which event should you respond to?

Answer: Session\_End.

How do you execute multiple SQL statements using a DataReader?

Answer: Set the Command.CommandText property to multiple SQL statements delimited by a semicolon.

What are the three main objects when working with a DataSet?

Answer: DataTable, DataColumn, and DataRelation.

What object would you set the properties on to create a primary key for a DataTable?

Answer: DataColumn.

Which statement that is used to replace multiple if statements is called?

Answer: The case statement.

Which of the following is not a C# keyword?

Answer: implements.

Which is a definition of a static method?

Answer: public static void MethodA().

Which of the following keyword is used to extend or modify the abstract or virtual implementation of an inherited method, property, indexer, or event?

Answer: override.

Given the following program, what is the outcome when you try to compile and run it?

Answer: ‘ConsoleApplication1.Program.Main ()': not all code paths return a value.

Which of the following statements are false?

Answer: A readonly field can be initialized only at compile time.

The main features of a static class are:

Answer: They only contain static members.

Which of the following modifier cause arguments to need not be initialized prior to being passed?

Answer: out.

What type of object is required when starting a thread that requires a single parameter?

Answer: ParameterizedThreadStart delegate.

What method terminates a running thread?

Answer: Thread.Abort.

Select the reasons why you would use Windows Forms over Web Forms?

Answer: All of the others.

You want to add a control to your form that allows you to set a particular option on or off. Which control would you choose?

Answer: RadioButton.

Which of the following are not events of a System.Windows.Forms.Control?

Answer: MousePress.

What causes the following Load event to fire?

Answer: The user starts the application if the form is the only form in the application.

Which controls is appropriate to dipsplay a list of suggested choices and allows multiseletion?

Answer: Listbox.

Which control allows typing in when choice is not in list of suggested choices?

Answer: Combobox.

What ASP.NET object encapsulates the user’s data as it is sent from a form in a page?

Answer: The Request object.

What important standard is used to connect client browsers with web servers?

Answer: HTTP

What definition correctly defines a label server control with the name set to lblHoop?

Answer: <asp:label id="lblHoop" runat="server"/>

What ASP.NET object encapsulates the state of the client and the browser?

Answer: The Session object.

What event would be used to capture the selection of a new item in a DropDownList control?

Answer: The SelectedIndexChanged event.

Which code segment will populate a DataSet?

Answer: sqlDataAdapter.Fill(dsUsers1);

Which of the following object types allow you to view read-only, forward-only data?

Answer: DataReader.

How do you execute multiple SQL statements using a Datareader?

Answer: Set the Command.CommandText property to multiple SQL statements delimited by a semicolon.

What is a DataSet?

Answer: All of the others.

What are the main objects that make up a DataAdapter?

Answer: Connection and Command objects.

Which line causes a compile error in the following code?

Answer: Line 3.

When you test the event handler, you find that it never runs. What code must you add to your

application to make the event execute in response to the SendFax event?

Answer: this.sFax.SendFax += new SendFaxHandler(this.Send\_Fax);

The following SQL INSERT statement fails. What is the most probable reason for the failure?

Answer: The columns in the Employees table are not in the indicated order (int, char, char, int).

You are using the try... catch block seen in the following code segment, but no exceptions are ever caught by the catch block. What is the problem?

Answer: The exception class is wrong; it should be SqlExceptions.

Select the line of code that will create a new form.

Answer: D-using System.Windows.Forms;

Which line of code will set the Link data for a LinkLabel?

Answer: None of the above.

In which namespace would you find the class Application?

Answer: System.Windows.Forms.

Which of the following are not methods of

System.Windows.Forms.Form object?

Answer: Deactive().

Given the following code, what will the compiler do?

class Test1

{

sealed abstract void MyMethod1A()

{

System.Console.WriteLine ("This is MyMethod1");

}

}

Answer: MyMethod1() is not properly declared.

Which tool provides dozens of options that allow you to debug your assembly?

Answer: Ildasm.exe

System.Byte is:

Answer: CTS Class type.

What of the following are not core feature of .NET framework?

Answer: Wrap a " sane subnet".

What is output if the below code snippet is executed:

Console.Writeline("C formal:{0;C}",99989.987);

Answer: 9.999977E+004

Which of the following server-side methods can be used on the HttpServerUtility

to navigate a different Web pagr without requiring a round trip to the client?

Answer: Redirect.

The easiest way to make a CheckBox causing PostBack is...

Answer: Set the AutoPostBack.

Which of the following would you do to prevent the user from being able to

give focus to the control under circumstance?

Answer: Set the control'S Enabled.

Some characteristics of C# are:

Answer: None of the others.

Which format property of the DateTimePickerForamt enumertion would you select to display dates

in a format that is not depend on the operating system format?

Answer: DateTimePickerFOrmat.Custom.

An instance of the HttpRequest class type can not be used to:

Answer: get a collection of cookies.

With respect to constructors of a class.

Answer: none of the others.

The const keyword is used to modify a declaration of...

Answer: a parameter of a return value.

With respect to CLR.

Answer: CLR is a set of.

With respect to Events.

Answer: Events are usually declared.

What is the fastest way to return the total number of customer in a database?

Answer: Create a stored procedure.

with repset to advantages of single-file page model.

Answer: All of the others.