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| **Started on** | Sunday, 4 November 2018, 5:49 PM |
| **State** | Finished |
| **Completed on** | Sunday, 4 November 2018, 6:37 PM |
| **Time taken** | 47 mins 23 secs |
| **Marks** | 65.33/79.00 |
| **Grade** | **82.70** out of 100.00 |

Top of Form

**Question 1**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

With SQL, how can you delete the records where the "FirstName" is "Peter" in the Persons Table?

Select one:

a. DELETE FROM Persons WHERE FirstName = 'Peter'

b. DELETE ROW FirstName='Peter' FROM Persons

c. DELETE FirstName='Peter' FROM Persons

d. None of the above

**Question 2**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

>=1 is the same as >0 (for integers)

Select one:

True

False

**Question 3**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

The rule that requires that each non-key field (attribute) should be fully functionally dependent on the primary key is

Select one:

a. first normal form

b. second normal form

c. third normal form

d. None of the Above

**Question 4**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

What is a field that uniquely describes each record?

Select one:

a. Composite Key

b. Foreign Key

c. Primary Key

d. None of the Above

**Question 5**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

A Database Language Concerned With The Definition Of The Whole Database Structure And Schema Is \_\_\_\_\_\_\_\_

Select one:

a. DCL

b. DML

c. DDL

d. All of the above

**Question 6**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

An athletics meeting involves several competitors who participate in a number of events. The database is intended to record who is to take part in which event and to record the outcome of each event. As results become available the winner attribute will be updated with the cid of the appropriate competitor.

Competitor(cid, name, nationality) Event(eid, description, winner) Competes(cid, eid)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  | | --- | --- | --- | | **Competitor** | | | | **cid** | **name** | **nationality** | | 01 | Pat | British | | 02 | Hilary | British | | 03 | Sven | Swedish | | 04 | Pierre | French | | |  |  |  | | --- | --- | --- | | **Event** | | | | **eid** | **description** | **winner** | | 01 | running |  | | 02 | jumping |  | | 03 | throwing |  | | |  |  | | --- | --- | | **Competes** | | | **cid** | **eid** | | 01 | 01 | | 02 | 01 | | 03 | 02 | | 04 | 02 | | 04 | 03 | |

Identify the result of the following SQL statement:

SELECT eid FROM Competes, Competitor WHERE Competes.cid=Competitor.cid AND nationality = 'Swedish'

Select one:

a. 01

b. 02

c. 03

d. 04

e. None of the Above

**Question 7**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

The cardinality of a relation is equivalent to the number of tuples in the relation.

Select one:

True

False

**Question 8**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

The Entity Relation Model models

Select one:

a. Relationships

b. Entities, Relationships and Processes

c. Entities

d. Entities and Relationships

**Question 9**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Which SQL statement is used to update data in a database?

Select one:

a. UPDATE

b. SAVE AS

c. MODIFY

d. SAVE

**Question 10**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Foreign keys uniquely identify records.

Select one:

True

False

**Question 11**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

With SQL, how can you insert "Olsen" as the "LastName" in the "Persons" table?

Select one:

a. INSERT INTO Persons (LastName) VALUES ('Olsen')

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

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

d. None of the above

**Question 12**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Which of the following statements best decribes the function of an entity relation model?

Select one:

a. An ER model is concerned primarily with a physical implementation of the data and secondly with the logical view

b. An ER model is concerned primarily with a logical view of the data and secondly with the physical implementation

c. An ER model provides a view of the logic of the data and not the physical implementation

d. An ER model is entirely concerned with modelling the physical implemetation

**Question 13**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Which of the following is NOT an information model?

Select one:

a. pureXML model

b. Relational Model

c. Hierarchial model

d. Network model

**Question 14**

Incorrect

Mark 0.00 out of 1.00

Remove flag

Question text

Consider the following database:  
MOVIE(id,title,yr)  
ACTOR(id,name)  
CASTING(movieid,actorid)  
Identify the SQL command which will return the titles of all 1959 Marilyn Monroe films.

1. The following SQL...

SELECT title FROM movie,casting,actor  
 WHERE movieid = movie.id<> AND name = 'Marilyn Monroe' ;

1. The following SQL...

SELECT title FROM movie,actor  
 WHERE name = 'Marilyn Monroe'  
 AND yr = 1959 ;

1. The following SQL...

SELECT title FROM movie,casting,actor  
 WHERE movieid = movie.id  
 AND actor.id = actorid  
 AND name = 'Marilyn Monroe'  
 AND yr = 1959 ;

1. The following SQL...

SELECT title FROM movie,casting,actor  
 WHERE movieid = movie.id  
 AND actor.id = actorid  
 AND movie.yr = casting.yr  
 AND name = 'Marilyn Monroe'  
 AND yr = 1959 ;

1. None of the above

Select one:

a. Choice 1

b. Choice 2

c. Choice 3

d. Choice 4

e. Choice 5

**Question 15**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Consider the table (Relation) STUDREC

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| SREF  (Key Field) | INITIAL | SURNAME | DATEOFBIRTH | GENDER | RESIDENCE | KIDS | HOMETOWN | DISTANCE |

The key is SREF (student reference number).  
This table is in

Select one:

a. first normal form

b. second normal form

c. third normal form

d. None of the above

**Question 16**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

**Which SQL statement is used to insert new data in a database?**

Select one:

a. insert into

b. insert new

c. add new

d. add record

**Question 17**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

One of the tasks of a relational database management system (RDBMS) is to ensure that relational schemas are in at least 3NF.

Select one:

True

False

**Question 18**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Consider the following table:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **SREF** | **INIT** | **SNAME** | **DOB** | **GENDER** | **RES** | **KIDS** | **HTOWN** |
| 1 | TJ | OSMAN | 29-Sep-53 | M | No | 0 | MILLHOUSE GREEN |
| 2 | S | LANGLEY | 21-Aug-57 | F | No | 0 | HUDDERSFIELD |
| 3 | H | WILSON | 07-Jul-62 | M | Yes | 1 | HUDDERSFIELD |
| 4 | J | CARTER | 21-Mar-54 | F | Yes | 2 | BARNSLEY |
| 5 | A | JONES | 10-Nov-48 | F | Yes | 2 | SHEFFIELD |
| 6 | S | ISHEMO | 05-Dec-50 | M | No | 0 | LEEDS |
| 7 | K | ARNOTT | 01-Aug-60 | F | Yes | 2 | SHEFFIELD |
| 8 | B | ARNOTT | 23-May-62 | F | Yes | 1 | LEEDS |
| 9 | N | GREEN | 30-Sep-58 | M | Yes | 1 | SHEFFIELD |

the filter KIDS=1 OR RES=True will

Select one:

a. list all those who are resident and all those who have one child

b. list all those with 1 child

c. list all those who are resident

d. list only those who have one child as well as all those who are resident

**Question 19**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

A set of atomic values that are all of the same type is called:

Select one:

a. domain

b. tuple

c. attribute

d. body

**Question 20**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

According to the entity integrity constraint, primary keys can take on any value from the set {null, 0 ... infinity}

Select one:

True

False

**Question 21**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

In the evolution of database management systems, what does optimization refer to?

Select one:

a. High Availability

b. Security

c. Performance

d. Scalability

**Question 22**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

The surrogate key provides a unique alternate for using a foreign key that is used to save space.

Select one:

True

False

**Question 23**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

The primary key does not have to be unique in relations that have a one to many relationship.

Select one:

True

False

**Question 24**

Incorrect

Mark 0.00 out of 1.00

Flag question

Question text

True or False:  ODBC requires manual installation of the ODBC driver manager and driver on all  client machines. JDBC drivers are written in java and JDBC code is automatically installable, secure, and portable on all platforms.

Select one:

True

False

**Question 25**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Consider the table STUDREC

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| SREF  (Key Field) | INIT | SNAME | DOB | GENDER | RES | KIDS | HTOWN | DISTANCE |

Which field (attribute) is transitively dependent on the key (SREF)

Select one:

a. RES (is the student residential)

b. KIDS (number of children)

c. DISTANCE (how far from The Northern College does the student live)

d. HTOWN (the student's home town)

**Question 26**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Which of the following is generally a benefit of normalisation?

Select one:

a. Performance is improved

b. Insertion anomalies are avoided

c. Selection anomalies are avoided

d. Number of tables is reduced

**Question 27**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

With SQL, how can you return all the records from a table named "Persons" sorted descending by "FirstName"?

Select one:

a. SELECT \* FROM Persons SORT BY 'FirstName' DESC

b. SELECT \* FROM Persons ORDER BY FirstName DESC

c. SELECT \* FROM Persons ORDER FirstName DESC

d. SELECT \* FROM Persons SORT 'FirstName' DESC

**Question 28**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

SQL was developed as an integral part of

Select one:

a. A relational database

b. A data warehouse

c. A flat file database

d. A hierarchial database

**Question 29**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

A primary key does not have to be unique.

Select one:

True

False

**Question 30**

Incorrect

Mark 0.00 out of 1.00

Flag question

Question text

A primary key must consist of one and only one field.

Select one:

True

False

**Question 31**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Which view of information deals with how the information is physically arranged, stored, and accessed?

Select one:

a. Physical View

b. Logical View

c. Information View

d. None of the Above

**Question 32**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

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?

Select one:

a. 1

b. 2

c. 3

d. None of the above

**Question 33**

Incorrect

Mark 0.00 out of 1.00

Flag question

Question text

In relational algebra the UNION of two sets (set A and Set B). This corresponds to

Select one:

a. A - B

b. A AND B

c. A OR B

d. A + B

**Question 34**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

A lack of normalisation can lead to which one of the following problems

Select one:

a. Lost Updates

b. Deletion of data

c. Insertion problems

Inserting data into an unnormalised system can result in the same data being entered in multiple tables. This gives rise to the possibility of data for the same object being entered "slightly differently" in more than one table. For instance, if a person's surname appeared in more than one table, and that person then changed his name, this change would have to be done in all tables where the name appeared. Ensuring this can be difficult, and so it is better to avoid such duplicated data by normalising the database design.

d. Deadlock conditions

**Question 35**

Incorrect

Mark 0.00 out of 1.00

Flag question

Question text

Given a relation country(name, continent, population) which of the following is a valid SQL statement?

Select one:

a. SELECT continent, population FROM country GROUP BY continent

b. SELECT continent, SUM(population) FROM country GROUP BY continent

c. SELECT name, population FROM country GROUP BY continent

d. SELECT name, SUM(population) FROM country GROUP BY continent

e. None of the above OR more than one of the above

**Question 36**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

With SQL, how can you return all the records from a table named "Persons" sorted descending by "FirstName"?

Select one:

a. SELECT \* FROM Persons SORT BY 'FirstName' DESC

b. SELECT \* FROM Persons ORDER BY FirstName DESC

c. SELECT \* FROM Persons ORDER FirstName DESC

d. SELECT \* FROM Persons SORT 'FirstName' DESC

**Question 37**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

The size of SQL data types differ across platforms.

Select one:

True

False

**Question 38**

Incorrect

Mark 0.00 out of 1.00

Flag question

Question text

In JDBC, what represents a single instance of a particular database session?

Select one:

a. a thread

b. an opened connection

c. a closed connection

d. a pipe

**Question 39**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Which SQL statement is used to remove data from a database?

Select one:

a. DELETE

b. REMOVE

c. TRUNCATE

d. DEL

**Question 40**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

In strict relational terminology, an attribute is

Select one:

a. a table

b. a field

c. an entity

d. a record

**Question 41**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

A relational database query normally returns many rows of data. But an application program usually deals with one row at a time.   Which of the following is used to bridge this gap allowing the program to deal with on row at a time.

Select one:

a. Cursor

b. Trigger

c. PL/SQL

d. Sub select join

**Question 42**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

The SQL ALTER statement can be used to:

Select one:

a. change the table structure.

b. change the table data.

c. add rows to the table.

d. delete rows from the table.

**Question 43**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Which term describes each two-dimensional table or file in the relational model?

Select one:

a. Database

b. Relational Database

c. Data Warehouse

d. None of the Above

**Question 44**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

The rule that specifies that there should be no repeating fields and that fields should be atomic is

Select one:

a. first normal form

b. second normal form

c. third normal form

d. None of the above

**Question 45**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Foreign keys are not necessary in relational databases.

Select one:

True

False

**Question 46**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

**Which SQL statement is used to delete data from a database?**

Select one:

a. delete

b. remove

c. collapse

d. truncate

**Question 47**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

The role which is responsible for gathering and documenting requirements, developing an architecture, sharing the architecture with business users and management, creating and enforcing standards, defining SLA's, and preparing high level documents is known as:

Select one:

a. Data Architect

b. Database Architect

c. Database Administrator

d. Database Application Developer

**Question 48**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

The role that is responsible for the maintenance, performance, integrity, and security of a database is.

Select one:

a. DBA (Database Administrator)

b. Data Architect

c. Database Architect

d. Database Application Developer

**Question 49**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Embedded SQL is which of the following?

Select one:

a. Hard-coded SQL statements in a program language such as Java.

b. The process of making an application capable of generating specific SQL code on the fly.

c. Hard-coded SQL statements in a procedure.

d. Hard-coded SQL statements in a trigger.

**Question 50**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

An athletics meeting involves several competitors who participate in a number of events. The database is intended to record who is to take part in which event and to record the outcome of each event. As results become available the winner attribute will be updated with the cid of the appropriate competitor.

Competitor(cid, name, nationality) Event(eid, description, winner) Competes(cid, eid)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  | | --- | --- | --- | | **Competitor** | | | | **cid** | **name** | **nationality** | | 01 | Pat | British | | 02 | Hilary | British | | 03 | Sven | Swedish | | 04 | Pierre | French | | |  |  |  | | --- | --- | --- | | **Event** | | | | **eid** | **description** | **winner** | | 01 | running |  | | 02 | jumping |  | | 03 | throwing |  | | |  |  | | --- | --- | | **Competes** | | | **cid** | **eid** | | 01 | 01 | | 02 | 01 | | 03 | 02 | | 04 | 02 | | 04 | 03 | |

Select one:

a. There is no means to represent a tie in a particular event.

b. There is no means to represent a competitor taking part in more than one event

c. At least one of the tables is not in third normal form

d. The Event table has a composite key

e. Competes is the Cartesian product of Competitor and Event

**Question 51**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

If you need to add a new field to a database, you would use the data manipulation system.

Select one:

True

False

**Question 52**

Incorrect

Mark 0.00 out of 1.00

Flag question

Question text

A physical view represents how the users view the data.

Select one:

True

False

**Question 53**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

In the world of SQL relational database, the data type for varchar, in general, is:

Select one:

a. Fixed length string of n characters

b. Variable length string up to n characters

c. Floating point number of p bits precision

d. 32-bit signed integer

**Question 54**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Which SQL statement is used to return only different values?

Select one:

a. SELECT UNIQUE

b. SELECT INDENTITY

c. SELECT DIFFERENT

d. SELECT DISTINCT

**Question 55**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

The result of a SELECT statement can contain duplicate rows.

Select one:

True

False

**Question 56**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

The result of a SELECT statement can contain duplicate rows.

Select one:

True

False

**Question 57**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Consider the table ([STUDREC](http://my.uopeople.edu/question/STUDREC.html)).

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **STUDREC** | | | | | | | |
| **SREF** | **INIT** | **SNAME** | **DOB** | **GENDER** | **RES** | **KIDS** | **TNAME** |
| 1 | TJ | OSMAN | 29/09/1953 | M | 0 | 0 | Millhouse Green |
| 2 | S | LANGLEY | 21/08/1957 | F | 0 | 0 | HUDDERSFIELD |
| 3 | H | WILSON | 07/07/1962 | M | 1 | 1 | HUDDERSFIELD |
| 4 | J | CARTER | 21/03/1954 | F | 1 | 2 | BARNSLEY |
| 5 | A | jones | 10/11/1948 | F | 1 | 2 | SHEFFIELD |
| 6 | S | ISHEMO | 05/12/1950 | M | 0 | 0 | LEEDS |
| 7 | K | ARNOTT | 01/08/1960 | F | 1 | 2 | SHEFFIELD |
| 8 | B | ARNOTT | 23/05/1962 | F | 1 | 1 | Leeds |
| 9 | N | GREEN | 30/09/1958 | M | 1 | 1 | SHEFFIELD |
| 10 | H | JACKSON | 21/04/1941 | M | 1 | 0 | SHEFFIELD |
| 11 | A | ARNOTT | 23/08/1954 | M | 1 | 2 | BARNSLEY |
| 12 | N | HEY | 10/10/1955 | F | 0 | 0 | SILKSTONE |
| 13 | K | WILSON | 13/03/1965 | M | 0 | 2 | BARNSLEY |
| 14 | J | BROWN | 29/09/1953 | F | 1 | 1 | BARNSLEY |
| 15 | A | ARNOTT | 23/08/1954 | F | 0 | 1 | BARNSLEY |
| 16 | G | WHITE | 03/03/1965 | M | 1 | 3 | BARNSLEY |
| 17 | J | GREEN | 06/08/1969 | F | 0 | 0 | BARNSLEY |
| 18 | J | GREEN | 09/08/1945 | M | 0 | 0 | BARNSLEY |
| 19 | F | WATSON | 03/03/1958 | M | 1 | 1 | THURLSTONE |
| 20 | L | HARVEY | 03/08/1954 | F | 0 | 2 | THURLSTONE |
| 21 | T | MOSLEY | 31/10/1975 | M | 1 | 2 | Silkstone |
| 22 | J | POWERS | 30/08/1945 | M | 1 | 0 | HENDON |
| 23 | J | CHESTER | 15/03/1960 | M | 0 | 0 | BARNSLEY |

Which of the following statements will list all students born between 1953 and 1959

Select one:

a. Select \* from studrec where studrec.DOB > 01/01/1953 AND studrec.DOB > 31/12/1959;

b. Select \* from studrec where studrec.DOB > 01/01/1953 OR studrec.DOB < 31/12/1959

c. Select \* from studrec where studrec.DOB >= 01/01/1953 AND studrec.DOB <= 31/12/1959

d. All of the above

**Question 58**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

The number of attributes in a relation is known as:

Select one:

a. The relation degree

b. The relation cardinality

c. The relation domain

d. The relation schema

**Question 59**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

The **intersection** two relations R1 and R2 will result in the set of all tuples t that belong to either R1 or R2

Select one:

True

False

**Question 60**

Incorrect

Mark 0.00 out of 1.00

Flag question

Question text

A database may have numerous physical views.

Select one:

True

False

**Question 61**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

If a relation has more than one candidate key the one chosen to represent the relation is called the:

Select one:

a. primary key

b. foreign key

c. alternate key

d. candidate key

**Question 62**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Which of the following statements is true concerning subqueries?

Select one:

a. Involves the use of an inner and outer query.

b. Cannot return the same result as a query that is not a subquery.

c. Does not start with the word SELECT.

d. All of the above.

**Question 63**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

To increase the number of nullable columns for a table,

Select one:

a. Use the alter table statement.

b. Ensure that all column values are NULL for all rows.

c. First increase the size of adjacent column datatypes, then add the column.

d. Add the column, populate the column, then add the NOT NULL constraint.

**Question 64**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

The data definition subsystem includes security management facilities.

Select one:

True

False

**Question 65**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

The CREATE TABLE statement is used to…

Select one:

a. create a new database table.

b. change existing database table

c. create a new database.

d. None of the above

**Question 66**

Partially correct

Mark 0.33 out of 1.00

Flag question

Question text

Which of the following is one of the basic approaches for joining tables?

Select one:

a. Subqueries

b. Union Join

c. Natural join

d. All of the above

**Question 67**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

SQL stands for

Select one:

a. Sequential Question Language

b. Structured Question Language

c. Sequential Query Language

d. Structured Query Language

**Question 68**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

This symbol represents a

Select one:

a. one to many relation

b. a many to many relation

c. a one to one relation

d. a many to one relation

**Question 69**

Incorrect

Mark 0.00 out of 1.00

Remove flag

Question text

An athletics meeting involves several competitors who participate in a number of events. The database is intended to record who is to take part in which event and to record the outcome of each event. As results become available the winner attribute will be updated with the cid of the appropriate competitor.

Competitor(cid, name, nationality) Event(eid, description, winner) Competes(cid, eid)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  | | --- | --- | --- | | **Competitor** | | | | **cid** | **name** | **nationality** | | 01 | Pat | British | | 02 | Hilary | British | | 03 | Sven | Swedish | | 04 | Pierre | French | | |  |  |  | | --- | --- | --- | | **Event** | | | | **eid** | **description** | **winner** | | 01 | running |  | | 02 | jumping |  | | 03 | throwing |  | | |  |  | | --- | --- | | **Competes** | | | **cid** | **eid** | | 01 | 01 | | 02 | 01 | | 03 | 02 | | 04 | 02 | | 04 | 03 | |

Select one:

a. A numeric attribute should be added to the Competes table

b. A numeric attribute should be added to the Event table

c. A numeric attribute should be added to the Competitor table

d. Three numeric attribute should be added to the Competitor table

e. Two numeric attributes should be added to the Competitor table

**Question 70**

Incorrect

Mark 0.00 out of 1.00

Flag question

Question text

Which of the following is NOT a valid relationship for an entity relationship model?

Select one:

a. 1-to-1

b. m-to-1

c. 1-to-n

d. n-to-n

**Question 71**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Take a look at the following table:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **SREF** | **INIT** | **SNAME** | **DOB** | **GENDER** | **RES** | **KIDS** | **HTOWN** |
| 1 | TJ | OSMAN | 29-Sep-53 | M | No | 0 | MILLHOUSE GREEN |
| 2 | S | LANGLEY | 21-Aug-57 | F | No | 0 | HUDDERSFIELD |
| 3 | H | WILSON | 07-Jul-62 | M | Yes | 1 | HUDDERSFIELD |
| 4 | J | CARTER | 21-Mar-54 | F | Yes | 2 | BARNSLEY |
| 5 | A | JONES | 10-Nov-48 | F | Yes | 2 | SHEFFIELD |
| 6 | S | ISHEMO | 05-Dec-50 | M | No | 0 | LEEDS |
| 7 | K | ARNOTT | 01-Aug-60 | F | Yes | 2 | SHEFFIELD |
| 8 | B | ARNOTT | 23-May-62 | F | Yes | 1 | LEEDS |
| 9 | N | GREEN | 30-Sep-58 | M | Yes | 1 | SHEFFIELD |

Applying a filter of HTOWN<>"LEEDS" will:

Select one:

a. List only the home towns of all of the students, except those who live in Leeds

b. List only the home towns of all of the students, except those who do not live in Leeds

c. list all students who live in Leeds

d. List all students who do not live in Leeds

**Question 72**

Incorrect

Mark 0.00 out of 1.00

Flag question

Question text

The main purpose of the information model is to inform software developers and provide protocol-specific constructs.

Select one:

True

False

**Question 73**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

Consider the table (Relation) CARS

|  |  |  |  |
| --- | --- | --- | --- |
| REGNO  (Key Field) | MODEL | COLOUR | OID |

The key is REGNO (car registration number), OID is a foreign key that identifies the car's owner.  
  
This table is in

Select one:

a. first normal form

b. second normal form

c. third normal form

d. None of the above

**Question 74**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

A user is setting up a join operation between tables EMP and DEPT. There are some employees in the EMP table that the user wants returned by the query, but the employees are not assigned to departments yet. Which SELECT statement is most appropriate for this user?

Select one:

a. select e.empid, d.head from emp e, dept d;

b. Select e.empid, d.head from emp e, dept d where e.dept# = d.dept#;

c. Select e.empid, d.head from emp e, dept d where e.dept# (+) = d.dept#;

d. Select e.empid, d.head from emp e right outer join on dept d where e.dept# = d.dept#;

**Question 75**

Incorrect

Mark 0.00 out of 1.00

Flag question

Question text

This ER diagram:

Select one:

a. indicates that many students can attend many courses

b. indicates that students attend courses

c. indicates that there is a missing entity because this is an invalid relationship

d. indicates that students have to attend more than one course

**Question 76**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

A timetable database is required for a University Department. Each taught event is part of a module, each event will have exactly one member of staff associated and several individual students. Each event takes place in a single weekly time slot. Each time slot has a day of the week and a time of day associated.Each of the weekly time slots is exactly one hour long, however we wish to represent the fact that some events take more than one hour. Which of the following does **not** represent a possible solution.

Select one:

a. A many-to-many relation between Events and Time-Slots is established

b. A one-to-many relation between Events and Time-Slots is established

c. Each event has an attribute "start" which refers to Time-Slots and "duration" which gives the length of the event in minutes

d. Each event has an attribute "start" which refers to Time-Slots and "duration" which gives the number of slots spanned

e. Each event has two attributes "first" and "last" each of which refer to Time-Slots

**Question 77**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

With SQL, how do you select a column named "FirstName" from a table named "Persons"?

Select one:

a. EXTRACT FirstName FROM Persons

b. SELECT FirstName FROM Persons

c. SELECT Persons.FirstName

d. UNION Persons.FirstName

**Question 78**

Correct

Mark 1.00 out of 1.00

Flag question

Question text

It is impossible to represent a one-to-one relationship in a relational schema.

Select one:

True

False

**Question 79**

Incorrect

Mark 0.00 out of 1.00

Flag question

Question text

A unique KEY field

Select one:

a. Is a special field that each database has to have.

b. Is a special field that identifies a particular record in a database

c. Is a special field that identifies a particular record in a data table

d. is a special field that has to be a unique number

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