CO-1

Question 1

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

___ comforts the users to access the stored data from different locations through several applications.

Select one:

a. Cloud database

b. Relational database

c. Distributed Database

d. Centralised database

Feedback

The correct answer is: Centralised database

Question 2

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

A/An ___ is a set of entities of the same type that share the same properties, or attributes.

Select one:

a. Entity set

b. Attribute set

c. Entity model

d. Relation set

Feedback

The correct answer is: Entity set

Question 3

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

An attribute which can be derived from other attributes

Select one:

a. KEY ATTRIBUTE

b. COMPOSITE ATTRIBUTE

c. DERIVED ATTRIBUTE

d. MULTIVALUED ATTRIBUTE

Feedback

The correct answer is: DERIVED ATTRIBUTE

Question 4

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

In a many to one relationship, the primary key of one entity acts as foreign key on which side?

Select one:

a. On both the sides

b. Neither of them

c. On the side where many relationship is defined

d. On the side where single (one) relationship is defined

Feedback

The correct answer is: On the side where many relationship is defined

Question 5

Incorrect

Mark 0.00 out of 1.00

Not flaggedFlag question

Question text

Relational database contains which of the following components?

Select one:

a. ALL OF THE ABOVE

b. INSTANCE

c. KEYS

d. TABLE

Feedback

The correct answer is: ALL OF THE ABOVE

Question 6

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

Responsibilities of data administrator includes:

Select one:

a. Data Extraction, Transformation, and Loading

b. Specialised Data Handling

c. Software installation and Maintenance

d. All the above

Feedback

The correct answer is: All the above

Question 7

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

The attribute AGE is calculated from DATE_OF_BIRTH. The attribute AGE is

Select one:

a. Single valued

b. Multi valued

c. Derived

d. Composite

Feedback

The correct answer is: Derived

Question 8

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

The relationship between the two tables are created using _____

Select one:

a. Check Constraint

b. Foreign Key

c. Primary Key

d. Candidate Key

Feedback

The correct answer is: Foreign Key

Question 9

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

What is/are the main reasons which made a shift from file system to DBMS?

Select one:

a. ALL OF THE ABOVE

b. Inconsistency of Data

c. Backup and Recovery

d. Redundancy of data

Feedback

The correct answer is: ALL OF THE ABOVE

Question 10

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

What helps in insertion, modification and deletion of the actual data in the database?

Select one:

a. Data retrival

b. Data definition

c. Data Updation

d. Data redundancy

Feedback

The correct answer is: Data Updation

Question 11

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

What is the difference between instance and a schema?

Select one:

a. both are same

b. instance is a row with tables and columns and schema specifies the structure like name of relation.

c. We can't say

d. schema is a row with tables and columns and instance specifies the structure like name of relation.

Feedback

The correct answer is: instance is a row with tables and columns and schema specifies the structure like name of relation.

Question 12

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

Which of the following is the user oriented language?

Select one:

a. QUERY LANGUAGE

b. DDL

c. NONE OF THE ABOVE

d. DML

Feedback

The correct answer is: QUERY LANGUAGE

Question 13

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

Which of the following statement is false?

Select one:

a. DBMS allows to create the databse as per their requirements.

b. DBMS provides the interface to perform various operations like creation,deletion etc

c. It doesn't provide security to the user.

d. DBMS accepts the request from the application and provides data through OS

Feedback

The correct answer is: It doesn't provide security to the user.

Question 14

Incorrect

Mark 0.00 out of 1.00

Not flaggedFlag question

Question text

Which of the following symbols represent relationship sets in an ER diagram

Select one:

a. Divided rectangles

b. Lines

c. Diamonds

d. Undivided rectangles

Feedback

The correct answer is: Diamonds

Question 15

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

Which type of entity cannot exist in the database unless another type of entity also exists in the database, but does not require that the identifier of that other entity be included as part of its own identifier?

Select one:

a. Strong entity

b. Dependent entity

c. Weak entity

d. None of these

Feedback

The correct answer is: Weak entity

Question 16

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

'Key attribute is the attribute which uniquely identifies each entity in the entity set

Select one:

True

False

Feedback

The correct answer is 'True'.

CO-2

Question 1

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

___ produces the relation that has attributes of R1 and R2.

Select one:

a. Cartesian product

b. Product

c. Intersection

d. Difference

Feedback

The correct answer is: Cartesian product

Question 2

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

In a relation between the entities, the type and condition of the relation should be specifieD) That is called as_____attribute.

Select one:

a. Relative

b. Derived

c. Recursive

d. Descriptive

Feedback

The correct answer is: Descriptive

Question 3

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

Relational Algebra is a _____ query language that takes two relations as input and produces another relation as an output of the query.

Select one:

a. Fundamental

b. Relational

c. Structural

d. Procedural

Feedback

The correct answer is: Procedural

Question 4

Incorrect

Mark 0.00 out of 1.00

Not flaggedFlag question

Question text

Select all of the valid math operators in SQL a) +(addition) b) * (multiplication) c) ^(exponents) d) – (subtraction)

Select one:

a. Only a,b

b. None of the above

c. All a,b,c,d

d. only a,b,d

Feedback

The correct answer is: only a,b,d

Question 5

Incorrect

Mark 0.00 out of 1.00

Not flaggedFlag question

Question text

Select the true statement below.

Select one:

a. HAVING filters after the data is grouped

b. Both 1 and 2

c. WHERE filters after the data is group.

d. None of the Above

Feedback

The correct answer is: HAVING filters after the data is grouped

Question 6

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

Statement 1: A tuple is a row in a relation Statement 2: Existence of multiple foreign keys in a same relation is possible

Select one:

a. Statement 1 is correct but Statement 2 is false

b. Both the statements are true

c. Statement 1 is false but Statement 2 is correct

d. Both the statements are false

Feedback

The correct answer is: Both the statements are true

Question 7

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

The subquery is known as a .... subquery because the subquery is related to the outer SQL statement.

Select one:

a. Correlated

b. Relational

c. Corelational

d. Related

Feedback

The correct answer is: Correlated

Question 8

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

The term attribute refers to a _____ of a table.

Select one:

a. Key

b. Record

c. Tuple

d. Column

Feedback

The correct answer is: Column

Question 9

Incorrect

Mark 0.00 out of 1.00

Not flaggedFlag question

Question text

What are the results of the query? Select * from orders where order_date = '2020-11-01'; Here orders = integer Order_date = datetime

Select one:

a. you wont get any results

b. you will get only order_dates

c. you will get all the orders with an order date of 2020-11-01

d. you will get all the of the orders

Feedback

The correct answer is: you wont get any results

Question 10

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

What does the notnull integrity constraint do?

Select one:

a. It ensures that at least one tuple is present in the relation

b. It ensures that all tuples have a finite value on a specified attribute

c. It ensures that at least one foreign key is present in the relation

d. It ensures that all tuples have finite attributes on all the relations

Feedback

The correct answer is: It ensures that all tuples have a finite value on a specified attribute

Question 11

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

What is wrong with the following query? SELECT Customers.CustomerName, Orders.OrderID FROM LEFT JOIN ON Customers.CustomerID = Orders.CustomerID FROM Orders AND Customers ORDER BY CustomerName;

Select one:

a. The table name comes after the join condition

b. Should be using an inner join rather than a left join

c. Should be using an outer join rather than a left join

d. Column names do not have an alias

Feedback

The correct answer is: The table name comes after the join condition

Question 12

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

Which is a unary operation:

Select one:

a. Selection operation

b. Primitive operation

c. Generalized selection

d. Projection operation

Feedback

The correct answer is: Generalized selection

Question 13

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

Which is the correct order of occurance in SQL query.

Select one:

a. select , from , where , order by , having

b. select , from , where , group by , having

c. select , group by , from where , having

d. select , having , where , group by

Feedback

The correct answer is: select , from , where , group by , having

Question 14

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

Which keyword is used in a query while retriving the data

Select one:

a. WHERE

b. SELECT

c. CREATE

d. FIND

Feedback

The correct answer is: SELECT

Question 15

Incorrect

Mark 0.00 out of 1.00

Not flaggedFlag question

Question text

Which of the following are aggregate functions in SQL a.MIN() b.MAX() c.DISTINCT() d.COUNT()

Select one:

a. only a , c and b

b. only c and b

c. All the above

d. only a, b and d

Feedback

The correct answer is: only a, b and d

Question 16

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

Which of the following is used to denote the selection operation in relational algebra?

Select one:

a. Omega (Greek)

b. Pi (Greek)

c. Lambda (Greek)

d. Sigma (Greek)

Feedback

The correct answer is: Sigma (Greek)

Question 17

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

Which of the following operations need the participating relations to be union compatible?

Select one:

a. INTERSECTION

b. DIFFERENCE

c. UNION

d. All of the above

Feedback

The correct answer is: All of the above

Question 18

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

Which of the following statements is FALSE of Entity Relationship (ER) Diagrams?

Select one:

a. They identify the Primary Keys.

b. They speed up the querying time.

c. they are usually represented in a visual format.

d. They show the relationships between tables.

Feedback

The correct answer is: They speed up the querying time.

Question 19

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

Which one of the following uniquely identifies the elements in the relation?

Select one:

a. Composite key

b. Primary key

c. Foreign key

d. Secondary Key

Feedback

The correct answer is: Primary key

Question 20

Incorrect

Mark 0.00 out of 1.00

Not flaggedFlag question

Question text

You want the details of all people in a class whose name starts with 'S'. Choose the correct query to get the details.

Select one:

a. SELECT * from Class WHERE name LIKE '%S';

b. SELECT * from Class WHERE name LIKE '%S%';

c. SELECT * from Class WHERE name IN 'S%';

d. SELECT * from Class WHERE name LIKE 'S%';

Feedback

The correct answer is: SELECT * from Class WHERE name LIKE 'S%';

CO-3

Question 1

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

A functional dependency is a relationship between or among

Select one:

a. Tables

b. Entities

c. Rows

d. Attributes

Feedback

The correct answer is: Attributes

Question 2

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

A logical counter is ____ after a new timestamp has been assigned

Select one:

a. Doubled

b. Incremented

c. Remains the same

d. Decremented

Feedback

The correct answer is: Incremented

Question 3

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

A relation is in 2NF if:

Select one:

a. All of the above

b. Any non-key attribute that are dependent on only part of the candidate key should be moved to another relation where the partial key is the actual full key.

c. All the values of non-key attributes are dependent fully on the candidate key.

d. It must be already in the 1NF.

Feedback

The correct answer is: All of the above

Question 4

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

A search key containing more than one attribute is referred to as a ____ search key.

Select one:

a. Compound

b. Simple

c. Secondary

d. Composite

Feedback

The correct answer is: Composite

Question 5

Incorrect

Mark 0.00 out of 1.00

Not flaggedFlag question

Question text

Consider a relation R(A, B, C, D) with the following functional dependencies: A -> (B, C, D), (A, D) -> (B, C) and (C, D) -> (A, B). Identify the candidate key(s).

Select one:

a. {C, D}

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

c. {A}, {C, D}

d. {A}

Feedback

The correct answer is: {A}, {C, D}

Question 6

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

Disadvantages of File systems to store data is:

Select one:

a. Data redundancy and inconsistency

b. All of the above

c. Data isolation

d. Difficulty in accessing data

Feedback

The correct answer is: All of the above

Question 7

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

Empdt1(empcode, name, street, city, state, pincode). For any pincode, there is only one city and state. Also, for given street, city and state, there is just one pincode. In normalization terms, empdt1 is a relation in

Select one:

a. 2 NF and hence also in 1 NF

b. 1 NF only

c. 3NF and hence also in 2NF and 1NF

d. BCNF and hence also in 3NF, 2NF and 1NF

Feedback

The correct answer is: 2 NF and hence also in 1 NF

Question 8

Incorrect

Mark 0.00 out of 1.00

Not flaggedFlag question

Question text

How many types of indexes are there in SQL server?

Select one:

a. 3

b. 1

c. 2

d. 4

Feedback

The correct answer is: 2

Question 9

Incorrect

Mark 0.00 out of 1.00

Not flaggedFlag question

Question text

If A and B are attributes of a relation, B is _____ on A if it is functionally dependent on A, but not on any subset of A.

Select one:

a. Functional Dependency

b. Partial Functional Dependency

c. Transitive Functional Dependency

d. Full Functional Dependency

Feedback

The correct answer is: Full Functional Dependency

Question 10

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

If a transaction does not modify the database until it has committed, it is said to use the _____ technique.

Select one:

a. Undo

b. Late-modification

c. Immediate-modification

d. Deferred-modification

Feedback

The correct answer is: Deferred-modification

Question 11

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

In _____ index instead of storing all the columns for a record together, each column is stored separately with all other rows in an index.

Select one:

a. Non clustered

b. Clustered

c. Column store

d. Row store

Feedback

The correct answer is: Column store

Question 12

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

In a ____ clustering index, the index record contains the search-key value and a pointer to the first data record with that search-key value and the rest of the records will be in the sequential pointers.

Select one:

a. Straight

b. Dense

c. Sparse

d. Continuous

Feedback

The correct answer is: Dense

Question 13

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

In a schema with attributes A, B, C, D and E following set of functional dependencies are given A --> B, A -->C, CD —>E, B --> D, E —> A. Which of the following functional dependencies is the implied by the above set.

Select one:

a. CD —> AC

b. BD --> CD

c. AC —> BC

d. BC —> CD

Feedback

The correct answer is: BD --> CD

Question 14

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

In B+ tree the node which points to another node is called

Select one:

a. Final node

b. Leaf node

c. Internal node

d. External node

Feedback

The correct answer is: Internal node

Question 15

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

In which form of function there is no partial functional dependencies.

Select one:

a. 2NF

b. 4NF

c. BCNF

d. 3NF

Feedback

The correct answer is: 2NF

Question 16

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

Let R(A, B, C, D, E, P, G) be a relational schema in which the following functional dependencies are known to hold: AB —> CD, DE —> P, C --> E, P --> C and B —> G . The relational schema R is

Select one:

a. In 2NF, but not in 3NF

b. In 3NF, but not in BCNF

c. Not in 2NF

d. In BCNF

Feedback

The correct answer is: Not in 2NF

Question 17

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

The database design prevents some data from being stored due to ___.

Select one:

a. Insertion anomalies

b. Deletion anomalies

c. Update anomaly

d. None of these

Feedback

The correct answer is: Insertion anomalies

Question 18

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

The situation where no transaction can proceed with normal execution is known as ____

Select one:

a. Abortion

b. Deadlock

c. Execution halt

d. Road block

Feedback

The correct answer is: Deadlock

Question 19

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

Which one is false about normal forms?

Select one:

a. BCNF is stricter than 5 NF

b. preserving decomposition into BCNF is always possible-Loss less

c. dependency preserving decomposition into 3 NF is always possible-Lossless

d. Any relation with two attributes is BCNF

Feedback

The correct answer is: preserving decomposition into BCNF is always possible-Loss less

Question 20

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

While inserting the record into the index, if the search-key value does not appear in the index.

Select one:

a. The system adds a pointer to the new record in the index entry

b. The system inserts an index entry with the search-key value in the index at the appropriate position

c. None of the mentioned

d. The system places the record being inserted after the other records with the same search-key values

Feedback

The correct answer is: The system inserts an index entry with the search-key value in the index at the appropriate position

CO-4

Question 1

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

A database administrator can manually force the COMMIT or ROLLBACK of a local .... distributed transaction.

Select one:

a. in-manual

b. in-local

c. in-force

d. in-doubt

Feedback

The correct answer is: in-doubt

Question 2

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

A deadlock exists in the system if and only if the wait-for graph contains a _____.

Select one:

a. Rotation

b. Cycle

c. Direction

d. Bi-direction

Feedback

The correct answer is: Cycle

Question 3

Incorrect

Mark 0.00 out of 1.00

Not flaggedFlag question

Question text

A transaction doesn't always need to exhibit?

Select one:

a. Isolation

b. Durability

c. Simplicity

d. Atomicity

Feedback

The correct answer is: Simplicity

Question 4

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

A transaction that has not been completed successfully is called as

Select one:

a. Aborted transaction

b. Compensating transaction

c. Partially committed transaction

d. Active transaction

Feedback

The correct answer is: Aborted transaction

Question 5

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

Another name for execution sequences in concurrency control:

Select one:

a. Serials

b. Organizations

c. Time tables

d. Schedules

Feedback

The correct answer is: Schedules

Question 6

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

Execution of translation in isolation preserves the ____ of a database

Select one:

a. Consistency

b. Atomicity

c. Durability

d. All of the mentioned

Feedback

The correct answer is: Consistency

Question 7

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

If a schedule is equivalent to a serial schedule, it is called as a ___

Select one:

a. Equivalent schedule

b. Committed schedule

c. Serializable schedule

d. None of the mentioned

Feedback

The correct answer is: Serializable schedule

Question 8

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

If a transaction does not modify the database until it has committed it is said to use a ___ modification technique

Select one:

a. None of the mentioned

b. Immediate

c. Deferred

d. More than one of the mentioned

Feedback

The correct answer is: Deferred

Question 9

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

If the database modifications occur while the transaction is still active, the transaction is said to use the ____ modification technique

Select one:

a. Deferred

b. Immediate

c. None of the mentioned

d. More than one of the mentioned

Feedback

The correct answer is: Immediate

Question 10

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

In order to undo the work of transaction after last commit which one should be used ?

Select one:

a. Rollback

b. View

c. Flashback

d. Commit

Feedback

The correct answer is: Rollback

Question 11

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

State true or false: Information residing in the volatile storage does not usually survive system crashes

Select one:

a. True

b. False

Feedback

The correct answer is: True

Question 12

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

State true or false: Transactions can only run serially

Select one:

a. True

b. False

Feedback

The correct answer is: False

Question 13

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

State true or false: Using checkpoints reduces overhead

Select one:

a. False

b. True

Feedback

The correct answer is: True

Question 14

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

The deadlock in a set of transaction can be determined by

Select one:

a. Read-only graph

b. Wait-for graph

c. Wait graph

d. All of the mentioned

Feedback

The correct answer is: Read-only graph

Question 15

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

The distributed transaction can be completely read-only and the transaction is started with a ....
READ ONLY statement.

Select one:

a. SET TRANSACTION

b. DISTRIBUTED_TRANSACTIONS

c. TRANSACTION

d. READ TRANSACTION

Feedback

The correct answer is: SET TRANSACTION

Question 16

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

The scheme that controls the interaction between executing transactions is called as ____

Select one:

a. Concurrency control scheme

b. Serialization scheme

c. Multiprogramming scheme

d. Schedule scheme

Feedback

The correct answer is: Concurrency control scheme

Question 17

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

Which of the following is not a transaction state?

Select one:

a. Compensated

b. Active

c. Partially committed

d. Failed

Feedback

The correct answer is: Compensated

Question 18

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

Which of the following is not a type of a schedule?

Select one:

a. Recoverable schedule

b. Partial schedule

c. Dependent schedule

d. None of the mentioned

Feedback

The correct answer is: None of the mentioned

Question 19

Incorrect

Mark 0.00 out of 1.00

Not flaggedFlag question

Question text

Which of the following systems is responsible for ensuring durability?

Select one:

a. Compiler system

b. Concurrency control system

c. Atomic system

d. Recovery system

Feedback

The correct answer is: Recovery system

Question 20

Correct

Mark 1.00 out of 1.00

Not flaggedFlag question

Question text

Which of the following systems is responsible for ensuring isolation?

Select one:

a. Recovery system

b. Concurrency control system

c. Atomic system

d. Compiler system

Feedback

The correct answer is: Concurrency control system