

***CS-403 Important Mcq's  
For Mid Term !!  
Solve By Vu-Topper RM!!***

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**0322-4021365**

**Question No:1** (Marks:1) **Vu-Topper RM**

The foreign key attribute, which is present as a primary key in another relation is called as \_\_\_\_\_ of the foreign key attribute.

- A. Binary relation
- B. Composite relation
- C. Home relation**
- D. Recursive relation

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**Question No:2** (Marks:1) **Vu-Topper RM**

While mapping many-to-many relationship \_\_\_\_\_ table(s) are created

- A. One
- B. Two
- C. Three**
- D. Five

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**Question No:3** (Marks:1) **Vu-Topper RM**

Which is not the function of Database Management System?

- A. A user accessible Catalog
- B. Concurrency Control Services
- C. Failure Response Service**
- D. Support for Data Communication

**Question No:4** (Marks:1) **Vu-Topper RM**

The conceptual database design can be transformed into any \_\_\_\_\_.

- A. Data model**
- B. Database design
- C. E-R model
- D. Entity set

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**Question No:5**

**(Marks:1)**

**Vu-Topper RM**

Which is the second stage in the database development process?

- A. Database design
- B. Preliminary Study
- C. Physical Design
- D. Requirement Analysis**

**Question No:6**

**(Marks:1)**

**Vu-Topper RM**

Functional dependencies under interference rule reflexivity are called \_\_\_\_\_ dependencies.

- A. Augmentation
- B. Transitivity
- C. Projectivity
- D. Trivial**

**Question No:7**

**(Marks:1)**

**Vu-Topper RM**

If many instances of the “Book” entity are associated with the many instances of the “Student” entity, then the relationship between them is:

- A. One to one
- B. One to many
- C. Many to many**
- D. Many to one

**Question No:8**

**(Marks:1)**

**Vu-Topper RM**

Which of the following constraints enforces entity integrity?

- A. PRIMARY KEY**
- B. FOREIGN KEY
- C. CHECK
- D. NOT NULL

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**Question No:9**

**(Marks:1)**

**Vu-Topper RM**

Unary operations involve

- A. Only one relation**
- B. Only two relations
- C. More than two relations
- D. Not more than five relations

**Question No:10**

**(Marks:1)**

**Vu-Topper RM**

A \_\_\_\_\_ entity has a primary key that is partially or totally derived from the parent entity in the relationship.

- A. Strong
- B. Weak**
- C. Business
- D. Relationship

**Question No:11**

**(Marks:1)**

**Vu-Topper RM**

In \_\_\_\_\_ appropriate data model is chosen.

- A. ERD
- B. Conceptual Database Design
- C. Logical Database Design**
- D. DFA

**Question No:12**

**(Marks:1)**

**Vu-Topper RM**

Which of the following is drawback of standardization?

- A. Difficult to understand
- B. Uniformity
- C. Lack of uniqueness**
- D. Easy to develop applications

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**Question No:13**

**(Marks:1)**

**Vu-Topper RM**

Recursive relationship is also called \_\_\_\_\_.

- A. Unary**
- B. Ternary
- C. Primary
- D. Secondary

**Question No:14**

**(Marks:1)**

**Vu-Topper RM**

DFD does not provide us a way to represent \_\_\_\_\_

- A. Entities
- B. Decisions**
- C. Data stores
- D. Processes

**Question No:15**

**(Marks:1)**

**Vu-Topper RM**

A \_\_\_\_\_ is used to maintain a connection between the users of the database system.

- A. Virtual server
- B. File server**
- C. Client server
- D. FTP server

**Question No:16**

**(Marks:1)**

**Vu-Topper RM**

Which of the following is an advantage of using the Traditional File Organization?

- A. Time consuming
- B. Data security
- C. Simplicity**
- D. Efficiency

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**Question No:17**

**(Marks:1)**

**Vu-Topper RM**

Which of the following is the input to Analysis Phase?

**A. DFD**

B. Logical database design

C. Physical database design

D. Data model

**Question No:18**

**(Marks:1)**

**Vu-Topper RM**

Name and \_\_\_\_\_ are part of the definitions of an attribute.

**A. Domain**

B. Symbol

C. Property

D. Entity instance

**Question No:19**

**(Marks:1)**

**Vu-Topper RM**

Which of the following most certainly implies the need for an entire table to implement?

**A. A ternary relationship**

B. A recursive relationship

C. An identify relationship

D. A binary relationship

**Question No:20**

**(Marks:1)**

**Vu-Topper RM**

Core of the Database Architecture is \_\_\_\_\_

**A. Internal level**

B. External level

C. Conceptual level

D. ANSI SPARK

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**Question No:21**

**(Marks:1)**

**Vu-Topper RM**

\_\_\_\_\_ is same as equi-join with a slight difference.

**A. Natural join**

B. Semi join

C. Outer join

D. Theta join

**Question No:22**

**(Marks:1)**

**Vu-Topper RM**

Conceptual database design is implemented using a \_\_\_\_\_.

A. Hierarchical data model

**B. Semantic data model**

C. Relational data model

D. Network data model

**Question No:23**

**(Marks:1)**

**Vu-Topper RM**

Which constraint is generally used for efficiency purposes in the data entry process?

A. Null value

B. Integer value

**C. Default value**

D. String value

**Question No:24**

**(Marks:1)**

**Vu-Topper RM**

A 3 NF relation is converted to BCNF by

A. Removing composite keys

B. Removing multivalued dependencies

**C. Dependent attributes of overlapping composite keys are put in a separate relation**

D. Dependent non-key attributes are put in a separate table

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**Question No:25**

**(Marks:1)**

**Vu-Topper RM**

Each \_\_\_\_\_ of a table contains atomic/single value.

- A. Cell**
- B. Row
- C. Column
- D. Record

**Question No:26**

**(Marks:1)**

**Vu-Topper RM**

A relation is said to be in BCNF when

- A. It has overlapping composite keys
- B. It has no composite keys
- C. It has no multivalued dependencies
- D. It has no overlapping composite keys which have related attributes**

**Question No:27**

**(Marks:1)**

**Vu-Topper RM**

Which one of the following is not a part of three-level architecture?

- A. External level
- B. Conceptual level
- C. Internal level
- D. Physical level**

**Question No:28**

**(Marks:1)**

**Vu-Topper RM**

Which of the following is INCORRECT about naming entities?

- A. Singular nouns are used
- B. Write in capitals
- C. Organization specific names can be used
- D. Always use abbreviations as they are convenient**

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**Question No:29**

**(Marks:1)**

**Vu-Topper RM**

An instance is

- A. A particular occurrence of an entity
- B. A special type of relation
- C. An attribute of an entity
- D. Any particular entity**

**Question No:30**

**(Marks:1)**

**Vu-Topper RM**

\_\_\_\_\_ is an example of metadata

- A. Ali
- B. Address
- C. Person
- D. Student**

**Question No:31**

**(Marks:1)**

**Vu-Topper RM**

Level of data at which entities or objects exist in reality is called

- A. Real world data**
- B. Schema for real world data
- C. Meta data
- D. Data about data

**Question No:32**

**(Marks:1)**

**Vu-Topper RM**

There are \_\_\_\_\_ basic properties of the database relations.

- A. Four
- B. Three
- C. Six**
- D. Two

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**Question No:33** (Marks:1)

**Vu-Topper RM**

How many types of dependencies are?

- A. One
- B. Two
- C. Three**
- D. Four

**Question No:34** (Marks:1)

**Vu-Topper RM**

In \_\_\_\_\_ join, only selected rows of a relation are made cross product with second relation.

- A. Normal
- B. Theta**
- C. Outer
- D. Semi

**Question No:35** (Marks:1)

**Vu-Topper RM**

Which of the following is not a key?

- A. Super key
- B. Alternate key
- C. Integrity constraint key**
- D. Primary key

**Question No:36** (Marks:1)

**Vu-Topper RM**

A collection of concepts that can be used to describe the structure of a database

- A. Database
- B. DBMS
- C. Data model**
- D. Data

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**Question No:37**

**(Marks:1)**

**Vu-Topper RM**

Any combination of attributes with super key is \_\_\_\_\_

- A. Primary key
- B. Foreign key
- C. Super key**
- D. Candidate key

**Question No:38**

**(Marks:1)**

**Vu-Topper RM**

Binary relationships are those, which are established between

- A. One entity type
- B. Two entity type**
- C. Three entity type
- D. Unlimited entities

**Question No:39**

**(Marks:1)**

**Vu-Topper RM**

\_\_\_\_\_ are called participants, when enrolled in a relationship.

- A. Attributes
- B. Relations
- C. Entities**
- D. Keys

**Question No:40**

**(Marks:1)**

**Vu-Topper RM**

In case of Context-level Diagram, the system is represented by

- A. One process atleast
- B. Two processes atleast
- C. One process only**
- D. Any number of processes

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**Question No:41** (Marks:1)

**Vu-Topper RM**

Collection of raw facts is called \_\_\_\_\_.

- A. Information
- B. Object
- C. Output
- D. Data**

**Question No:42** (Marks:1)

**Vu-Topper RM**

A software package designed to store and manage database

- A. Database
- B. DBMS**
- C. Data model
- D. Data

**Question No:43** (Marks:1)

**Vu-Topper RM**

In \_\_\_\_\_ join common attributes appear twice in the output with selected rows.

- A. Normal join
- B. Semi join
- C. Natural join
- D. Equi join**

**Question No:44** (Marks:1)

**Vu-Topper RM**

Within a table, each primary key value \_\_\_\_\_.

- A. Is a minimal super key
- B. Is always the first field in each table
- C. Must be numeric
- D. Must be unique**

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**Question No:45**

**(Marks:1)**

**Vu-Topper RM**

\_\_\_\_\_ is not an operation of relational algebra.

- A. Addition**
- B. Union
- C. Cartesian product
- D. Set difference

**Question No:46**

**(Marks:1)**

**Vu-Topper RM**

Candidate keys which are not selected as primary key are called \_\_\_\_

- A. Secondary keys
- B. Foreign keys
- C. Alternate keys**
- D. Composite keys

**Question No:47**

**(Marks:1)**

**Vu-Topper RM**

Major benefits of data sharing is:

- A. Data of same applications placed at same place.
- B. Data of same applications placed at different places
- C. Data of different application places at same place**
- D. Data of different applications stored at placed place

**Question No:48**

**(Marks:1)**

**Vu-Topper RM**

Functional dependency between two attributes or sets of attributes i.e. Q and P is represented as \_\_\_\_\_.

- A.  $Q \rightarrow P$**
- B.  $Q \ P$
- C.  $Q * P$
- D.  $Q + P$

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**Question No:49**

**(Marks:1)**

**Vu-Topper RM**

Which of the following is not the component of Relational Data Model?

- A. Integrity Constraint
- B. Manipulation Language**
- C. Relation / Table
- D. Domain Constraint

**Question No:50**

**(Marks:1)**

**Vu-Topper RM**

The attribute that is calculated from other attribute is called \_\_\_\_\_.

- A. Derived attribute**
- B. Multi-valued attribute
- C. Composite attribute
- D. Simple attribute

**Question No:51**

**(Marks:1)**

**Vu-Topper RM**

Consider the two attributes “CNIC\_NO” and “Registration\_NO”. Both the attributes can be used for the unique identification. Now if the user selects the “CNIC\_NO” as primary key, then “Registration\_NO” is a \_\_\_\_\_ key.

- A. Foreign
- B. Secondary
- C. Primary
- D. Alternative**

**Question No:52**

**(Marks:1)**

**Vu-Topper RM**

Which of the following constraint is included in the definition of the table?

- A. Default value
- B. Foreign key
- C. Null**

**Question No:53**

**(Marks:1)**

**Vu-Topper RM**

The database deals with large amount of data. This property is called

- A. Database design
- B. Scalability**
- C. Concurrency
- D. Robustness

**Question No:54**

**(Marks:1)**

**Vu-Topper RM**

Which one of the following is NOT a characteristic of meta data?

- A. Data about data
- B. Describes a data dictionary
- C. Self-describing
- D. Includes user data**

**Question No:55**

**(Marks:1)**

**Vu-Topper RM**

Theta join is denoted mathematically as \_\_\_\_\_.

- A.  $R \times S$
- B.  $R \bowtie X$
- C.  $R \times \Theta S$**
- D.  $R \bowtie RS$

**Question No:56**

**(Marks:1)**

**Vu-Topper RM**

In cross reference matrix transitions are specified on \_\_\_\_\_ and database objects are specified on \_\_\_\_\_.

- A. Y axis, X axis
- B. X axis, Y axis
- C. X axis, X axis
- D. Y axis, Y axis**

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**Question No:57**

**(Marks:1)**

**Vu-Topper RM**

Each component of DBMS performs \_\_\_\_\_ functions.

- A. Similar
- B. Different**
- C. Identical
- D. Computational

**Question No:58**

**(Marks:1)**

**Vu-Topper RM**

Which of the following data model is not record based?

- A. Hierarchical Data Model
- B. Network Data model
- C. Semantic Data model**
- D. Relational Data model

**Question No:59**

**(Marks:1)**

**Vu-Topper RM**

The basic purpose of diamond in ER diagram is to show the \_\_\_\_\_.

- A. Attributes
- B. Relationships**
- C. Composite attribute
- D. Entity set

**Question No:60**

**(Marks:1)**

**Vu-Topper RM**

Which of the following tool is used to design conceptual database design?

- A. SQL
- B. MS Access
- C. Oracle
- D. This model is independent of any tool**

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**Question No:61**

**(Marks:1)**

**Vu-Topper RM**

In “one to many” cardinality one instance of a relation is mapped with \_\_\_\_\_.

- A. Many instances of second entity type**
- B. One instance of second entity type
- C. Primary key of second relation
- D. Foreign key of second relation

**Question No:62**

**(Marks:1)**

**Vu-Topper RM**

Cross reference matrix is developed at the \_\_\_\_\_ stage of the database.

- A. Analysis
- B. Designing**
- C. Implementation
- D. Application

**Question No:63**

**(Marks:1)**

**Vu-Topper RM**

The population of the data of the organization for which the database is created is called the\_\_ of the database.

- A. Extension**
- B. Intension
- C. Model
- D. Schema

**Question No:64**

**(Marks:1)**

**Vu-Topper RM**

User rights information is stored in

- A. Physical database
- B. Catalog**
- C. Logical database
- D. Buffer

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**Question No:65**

**(Marks:1)**

**Vu-Topper RM**

Logical data independency provides independency to change \_\_ model.

- A. External
- B. Logical
- C. Conceptual**
- D. Internal

**Question No:66**

**(Marks:1)**

**Vu-Topper RM**

In natural join the common attribute in the output table appears \_\_\_\_\_.

- A. Twice
- B. Three times
- C. Four times
- D. Once**

**Question No:67**

**(Marks:1)**

**Vu-Topper RM**

Which levels are mostly used for detailed DFD?

- A. Level-0, Level-1**
- B. Level-1, Level-2
- C. Level-2, Level-3
- D. Level-3, Level-4

**Question No:68**

**(Marks:1)**

**Vu-Topper RM**

By default, a non-key attribute in a relation can have \_\_\_\_\_ value.

- A. Binary
- B. Null**
- C. Character
- D. Integer

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**Question No:69**

**(Marks:1)**

**Vu-Topper RM**

The three levels architecture is useful for \_\_\_\_\_.

- A. Arranging the data in an organized manner
- B. Hiding the details of internal systems**
- C. Breaking the data access restriction
- D. Storing definitions of the structures

**Question No:70**

**(Marks:1)**

**Vu-Topper RM**

With the help of \_\_\_\_\_ technique data values with the smaller sized codes can further reduce the space needed by the data for storage in the database.

- A. Compression**
- B. Expansions
- C. Negation
- D. Extension

**Question No:71**

**(Marks:1)**

**Vu-Topper RM**

If an entity is linked with itself, than it is called \_\_\_\_\_ relationship.

- A. Binary
- B. Ternary
- C. Nary
- D. Recursive**

**Question No:72**

**(Marks:1)**

**Vu-Topper RM**

Duplication of data in controlled redundancy is controlled and \_\_\_\_\_.

- A. Deliberate**
- B. Necessary
- C. Precise
- D. Unintentional

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**Question No:73** (Marks:1)

**Vu-Topper RM**

Teleprocessing is a sub-type of \_\_\_\_\_.

- A. Single user database
- B. Multi-user database**
- C. File server
- D. Client server

**Question No:74** (Marks:1)

**Vu-Topper RM**

In an ERD, the focus is on the \_\_\_\_\_ and the relationships between them.

- A. Attributes
- B. Entities**
- C. Keys
- D. Indexes

**Question No:75** (Marks:1)

**Vu-Topper RM**

The most widely used conceptual model is the \_\_\_\_\_ model.

- A. Implementation
- B. ER**
- C. Object oriented
- D. Internal

**Question No:76** (Marks:1)

**Vu-Topper RM**

Student and book are two entities, what is the cardinality between the two?

- A. Many to one
- B. One to many
- C. Many to many**
- D. One to one

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**Question No:77**

**(Marks:1)**

**Vu-Topper RM**

RDM is a simple there is just one structure and that is \_\_\_\_\_.

- A. A relation or a table**
- B. E-R model
- C. Attributes
- D. Data model

**Question No:78**

**(Marks:1)**

**Vu-Topper RM**

A description on a particular collection of data using the given data model.

- A. Database**
- B. Relation
- C. Schema
- D. None

**Question No:79**

**(Marks:1)**

**Vu-Topper RM**

Consider thy key “CNIC, Name” and choose the best option that describes the key most effectively.

- A. The given key is a super key and alternate key.
- B. The given key is not a super key but a candidate key.
- C. The given key is a super key and candidate key as well.**
- D. The given key is a super key but not a candidate key.

**Question No:80**

**(Marks:1)**

**Vu-Topper RM**

Normalization is a process of restricting a relation to

- A. Minimize duplication of data in a database**
- B. Maximize duplication of data to ensure reliability
- C. Make if of uniform size
- D. Allow addition of data

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**Question No:81**

**(Marks:1)**

**Vu-Topper RM**

Unary relationship involves a single entity it is also called \_\_\_\_\_.

- A. One to one relationship
- B. One to many relationship
- C. Many to many relationship
- D. Recursive relationship**

**Question No:82**

**(Marks:1)**

**Vu-Topper RM**

Which of the following is a part of a DFD but not included in the ERD?

- A. The attribute having a single instance
- B. The external entity having a single instance**
- C. The relationship having a single instance
- D. The role having a single instance

**Question No:83**

**(Marks:1)**

**Vu-Topper RM**

The database management system (DBMS) is used to

- A. Store the data
- B. Access the data
- C. Manage its users
- D. All of above**

**Question No:84**

**(Marks:1)**

**Vu-Topper RM**

In cross reference matrix attributes are mention on \_\_\_\_\_ and reports are mention on\_\_.

- A. Y axis, X axis
- B. Y axis, Z axis
- C. X axis, Y axis**
- D. X axis, Z axis

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**Question No:85**

**(Marks:1)**

**Vu-Topper RM**

A table can be logically connected to another table by defining a \_\_\_\_.

- A. Hyper link
- B. Common attribute
- C. Primary key**
- D. Super key

**Question No:86**

**(Marks:1)**

**Vu-Topper RM**

Data Redundancy means

- A. Security of data
- B. Duplication of data**
- C. Management of data
- D. Recovery of data

**Question No:87**

**(Marks:1)**

**Vu-Topper RM**

Which of the following is a type of dependency?

- A. DBMS
- B. ERD
- C. DFD
- D. Referential**

**Question No:88**

**(Marks:1)**

**Vu-Topper RM**

In your opinion, why relational database is widely acceptable?

- A. Due to its complexity
- B. Due to its approach
- C. Due to its dependencies**
- D. Due to its strength

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**Question No:89**

**(Marks:1)**

**Vu-Topper RM**

\_\_\_\_\_ is the first comprehensive complete database design.

- A. Logical database design
- B. Relational database design
- C. Conceptual database design**
- D. Hierarchical database design

**Question No:90**

**(Marks:1)**

**Vu-Topper RM**

How data security can be assured in the database?

- A. By hiding data from all
- B. Through concurrent access of users
- C. By asking users not to share things
- D. Implementing encryption algorithms**

**Question No:91**

**(Marks:1)**

**Vu-Topper RM**

The attributes whose value is not stored in a database is known as \_\_\_\_\_ attribute.

- A. Stored
- B. Single value
- C. Multi value
- D. Derived**

**Question No:92**

**(Marks:1)**

**Vu-Topper RM**

Logical database design, like conceptual database design is our \_\_\_\_\_

- A. Data model
- B. Weak entity set
- C. Strong entity set
- D. Database design**

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**Question No:93**

**(Marks:1)**

**Vu-Topper RM**

If a single instance of “student” is associated with the many instances of the “subjects” entity, then the relationship between them is:

- A. One to one
- B. One to many**
- C. Many to many
- D. Many to one

**Question No:94**

**(Marks:1)**

**Vu-Topper RM**

The conceptual database design is drawn through \_\_\_\_\_.

- A. Data model
- B. ER model**
- C. Database design
- D. Entity set

**Question No:95**

**(Marks:1)**

**Vu-Topper RM**

A relational database is

- A. One that consist of two or more tables
- B. A database that is able to process tables, queries, forms, reports and macros**
- C. One that consists of two or more tables that are joined in some way
- D. The same as a flat file database

**Question No:96**

**(Marks:1)**

**Vu-Topper RM**

Database is a computerized representation of any organization’s flow of \_\_\_ and storage of\_.

- A. Data, information
- B. Details, data
- C. Data, details
- D. Information, data**

**Question No:97**

**(Marks:1)**

**Vu-Topper RM**

In which stage of the database development process logical design is created?

- A. Requirement analysis
- B. Database design
- C. Physical design
- D. Implementation**

**Question No:98**

**(Marks:1)**

**Vu-Topper RM**

Which of the following is NOT an entity?

- A. Employee
- B. Hobby
- C. Student
- D. Playground**

**Question No:99**

**(Marks:1)**

**Vu-Topper RM**

After moving the determined columns from the original table to the new table while converting to 2NF, the determinate becomes the \_\_\_\_\_ of the new table.

- A. Primary key**
- B. Foreign key
- C. Secondary key
- D. Composite key

**Question No:100**

**(Marks:1)**

**Vu-Topper RM**

The select operation works horizontally on the table, on the other hand the \_\_\_\_\_ operates on a single table vertically.

- A. Binary operator
- B. Project operator**

- C. Join operator
- D. Select operator

**Question No:101** (Marks:1)

**Vu-Topper RM**

Free standing data dictionary is created by

- A. DFD
- B. Database
- C. CASE tools**
- D. Cross reference matrix

**Question No:102** (Marks:1)

**Vu-Topper RM**

A patient can be an outdoor or indoor. Analyze this statement and tell what type of constraint will be applied on patient?

- A. Total completeness**
- B. Partial completeness
- C. Total disjoint
- D. Partial disjoint

**Question No:103** (Marks:1)

**Vu-Topper RM**

If  $A \rightarrow B$  and  $A \rightarrow C$ , then  $A \rightarrow BC$ . The inference Rule applies is:

- A. Union**
- B. Decomposition
- C. Augmentation
- D. Reflexivity

**Question No:104** (Marks:1)

**Vu-Topper RM**

Which of the following is the correct abbreviation of ERD?

- A. Entity relationship diagram**
- B. Entity relation diagram
- C. Entity reality diagram

D. Entity real distance

**Question No:105**

**(Marks:1)**

**Vu-Topper RM**

Database relation is also represented in a two dimensional structure called \_\_\_\_\_

- A. Row
- B. Table**
- C. Entity
- D. Column

**Question No:106**

**(Marks:1)**

**Vu-Topper RM**

Data about data is metadata

- A. True**
- B. False

**Question No:107**

**(Marks:1)**

**Vu-Topper RM**

Which of the following describes the job of a database administrator?

- A. Development, implementation operation of the physical database
- B. Creation of the system catalog
- C. Monitoring and controlling database security and authorization: setting up controls to ensure the quality and integrity of data**
- D. All of the above

**Question No:108**

**(Marks:1)**

**Vu-Topper RM**

Each table must have a \_\_\_\_\_ key.

- A. Primary**
- B. Secondary
- C. Logical
- D. Foreign

**Question No:109**

**(Marks:1)**

**Vu-Topper RM**

A relational database system is based on the concept(s) of:

- A. A network of data records
- B. Nested tables
- C. Tables, row and columns**
- D. A tree-like structure of data

**Question No:110**

**(Marks:1)**

**Vu-Topper RM**

$A \rightarrow BC$  and  $A \rightarrow B$ , then  $A \rightarrow C$  follow \_\_\_\_\_ inference rule.

- A. Augmentation
- B. Transitivity
- C. Projectivity**
- D. Additivity

**Question No:111**

**(Marks:1)**

**Vu-Topper RM**

Suppose, we have two entities “shape” and “triangle”, then which of the following is a correct statement?

- A. Shape is a super type entity and triangle is a sub type entity**
- B. Shape is a sub type entity and triangle is a super type entity
- C. Shape and triangle both are super type entities
- D. Shape and triangle both are sub type entities

**Question No:112**

**(Marks:1)**

**Vu-Topper RM**

The entity that is NOT dependent on any other entity for its existence is known as\_\_ entity.

- A. Weak
- B. Strong**
- C. Derived
- D. Dependent

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**Question No:113**

**(Marks:1)**

**Vu-Topper RM**

In cross reference matrix attributes are specified on \_\_\_\_\_

- A. X axis**
- B. Y axis
- C. Z axis
- D. None of the above

**Question No:114**

**(Marks:1)**

**Vu-Topper RM**

Which of the following clarify the semantics of a relationship?

- A. Entity
- B. Roles**
- C. Relationship set
- D. Participants

**Question No:115**

**(Marks:1)**

**Vu-Topper RM**

How many types of cardinalities is specified about relationship?

- A. Two
- B. One
- C. Three
- D. Four**

**Question No:116**

**(Marks:1)**

**Vu-Topper RM**

Which of the following is NOT a component of a DFD?

- A. Dataflow
- B. Datastore
- C. External entities
- D. Relationship between external entities**

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**Question No:117**

**(Marks:1)**

**Vu-Topper RM**

Which of the following provides us the facility to add properties of one entity to another entity automatically?

- A. Abstraction
- B. Encapsulation
- C. Inheritance**
- D. Dependencies

**Question No:118**

**(Marks:1)**

**Vu-Topper RM**

If there is more than one relationship between two entities and we mentioned role on the relationship link, then it is called:

- A. Unary relationship
- B. Binary relationships
- C. Ternary relationships
- D. Multiple relationships**

**Question No:119**

**(Marks:1)**

**Vu-Topper RM**

Which one of the following is not an advantage of DBMS?

- A. Data consistency
- B. Recovery procedure is difficult**
- C. Faster development of new applications
- D. Better backup and recovery procedures

**Question No:120**

**(Marks:1)**

**Vu-Topper RM**

In many to many relationships a third table is created for the relationship, which is also called as \_\_\_\_\_

- A. Binary relation
- B. Associative entity type**
- C. Unary relationship
- D. Composite attributes

**Question No:121**

**(Marks:1)**

**Vu-Topper RM**

When one entity instance of another entity for its existence, then it is called \_\_\_\_\_

- A. Existence dependency**
- B. Identifier dependency
- C. Referential dependency
- D. Acceptance dependency

**Question No:122**

**(Marks:1)**

**Vu-Topper RM**

Relational data model is widely accepted due to its mathematically proven foundation and its \_\_\_\_\_

- A. Complexity
- B. Simplicity**
- C. Hierarchical structure
- D. Traditional structure

**Question No:123**

**(Marks:1)**

**Vu-Topper RM**

If an entity “motor cycle” is associated with at most one “driver”, then the relationship between these two entities is:

- A. One to one**
- B. One to many
- C. Many to many
- D. Many to one

**Question No:124**

**(Marks:1)**

**Vu-Topper RM**

Database application is a program which is used for performing certain operations such as-----

- A. Insertion of data
- B. Extraction of data
- C. Updating the data

**D. All of above**

**Question No:125**

**(Marks:1)**

**Vu-Topper RM**

Creating the relationships between new tables and their predecessors through the use of foreign keys is general requirements of \_\_\_\_\_

A. First normal form

**B. Second normal form**

C. Third normal form

D. Fourth normal form

**Question No:126**

**(Marks:1)**

**Vu-Topper RM**

In \_\_\_\_\_ the domains of attributes of a relation are atomic, that is they consist of single units that cannot be broken down further.

**A. First normal form**

B. Second normal form

C. Third normal form

D. Augmentation

**Question No:127**

**(Marks:1)**

**Vu-Topper RM**

Atomicity is a feature of \_\_\_\_\_.

**A. 1NF**

B. 2NF

C. 3NF

D. BCNF

**Question No:128**

**(Marks:1)**

**Vu-Topper RM**

The \_\_\_\_\_ can see entire information structure of the database.

**A. BA**

B. DBTG

C. Database user

D. External viewer

**Question No:129**

**(Marks:1)**

**Vu-Topper RM**

The attribute whose value is not stored in a database is known as \_\_\_\_\_ attribute.

- A. Stored
- B. Single value
- C. Multi value
- D. Derived**

**Question No:130**

**(Marks:1)**

**Vu-Topper RM**

\_\_\_\_\_ are the structure defined for placing data in the attributes while designing physical design of database.

- A. Objects
- B. Variables
- C. Attributes
- D. Data types**

**Question No:131**

**(Marks:1)**

**Vu-Topper RM**

Suppose a relation has five columns and ten rows, select the correct option to identify cardinality of relation.

- A. Five
- B. Ten**
- C. Fifteen
- D. Twenty

**Question No:132**

**(Marks:1)**

**Vu-Topper RM**

Which feature of database provides conversion from inconsistent state of DB to a consistent state ensuring minimum data loss?

- A. User accessible catalog

- B. Data processing
- C. Recovery service**
- D. Authorization service

**Question No:133** (Marks:1) **Vu-Topper RM**

The maximum PL/SQL size of data type “VARCHAR2” in DBMS is \_\_\_\_\_ bytes

- A. 42767
- B. 52767
- C. 32767**
- D. 28767

**Question No:134** (Marks:1) **Vu-Topper RM**

\_\_\_\_\_ is state of database where a “course” cannot be inserted in the table, because this course has not been registered to any “student”.

- A. Insertion anomaly**
- B. Deletion anomaly
- C. Updation anomaly
- D. Redundancy

**Question No:135** (Marks:1) **Vu-Topper RM**

The maximum PL/SQL size of data type “BLOB” in DBMS is\_\_\_\_\_

- A. 4 gigabytes**
- B. 8 gigabytes
- C. 10 gigabytes
- D. 12 gigabytes

**Question No:136** (Marks:1) **Vu-Topper RM**

\_\_\_\_\_ states that in a relation no attributes of a primary key (PK) can have a null value.

- A. Referential integrity constraint
- B. Null constraint
- C. Domain constraint
- D. Entity integrity constraint**

**Question No:137** (Marks:1) **Vu-Topper RM**

A database state where deletion of the information about the student record deletes the course information as well is called \_\_\_\_\_.

- A. Insertion anomaly
- B. Updation anomaly
- C. Redundancy
- D. Deletion anomaly**

**Question No:138** (Marks:1) **Vu-Topper RM**

An entity type is

- A. Defined when the database is actually constructed
- B. A specific type such as an integer, text, date, logical etc.
- C. A coherent set of similar objects that we want to store data on (e.g. STUDENTS, COURSE, CAR)**

**Question No:139** (Marks:1) **Vu-Topper RM**

Defined by the database designer

“select” and “project” are the examples of \_\_\_\_\_

- A. Unary operation**
- B. Binary operation
- C. Ternary operation
- D. Nary operation

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**Question No:140**

**(Marks:1)**

**Vu-Topper RM**

External scheme evolves as user needs are \_\_\_\_\_ over the time.

- A. Ends
- B. Modified
- C. Switch**
- D. Stable

**Question No:141**

**(Marks:1)**

**Vu-Topper RM**

An attribute that is the collection of some other attribute(s) is known as \_\_\_\_\_ attributes.

- A. Multi-valued
- B. Single-valued
- C. No-valued
- D. Composite**

**Question No:142**

**(Marks:1)**

**Vu-Topper RM**

Which of the following is correct regarding Dataflow diagram?

- A. Single DFD is required to represent a system
- B. The dataflow must be bidirectional
- C. Created at increasing levels of detail**

**Question No:143**

**(Marks:1)**

**Vu-Topper RM**

Used to represent the relationships among the external entities\_ are those attributes that are a combination of two or more than two attributes.

- A. Default value
- B. Null value
- C. Primary key
- D. Composite attributes**

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**Question No:144**

**(Marks:1)**

**Vu-Topper RM**

Controlling redundancy in a database management system DOES NOT help to

- A. avoid duplication
- B. avoid unnecessary wastage of storage space
- C. avoid unauthorized access to data**
- D. avoid inconsistency among data

**Question No:145**

**(Marks:1)**

**Vu-Topper RM**

Which of the following concepts is applicable with respect to 3NF?

- A. Full functional dependency
- B. Any kind of dependency
- C. Transitive dependency**
- D. Partial functional dependency

**Question No:146**

**(Marks:1)**

**Vu-Topper RM**

Identify the operation which is NOT one of the parts of the five basic set operations in relational algebra?

- A. Join**
- B. Union
- C. Cartesian Product
- D. Set Difference

**Question No:147**

**(Marks:1)**

**Vu-Topper RM**

Making a change to the conceptual schema of a database but not affecting the existing external schemas is an example of

- A. Physical data independence.
- B. Concurrency control.
- C. Logical data independence.**
- D. Functional dependency

**Question No:148**

**(Marks:1)**

**Vu-Topper RM**

For a third normal form we concentrate on relations with one \_\_\_\_\_ key, and we eliminate transitive dependencies

- A. Candidate**
- B. Composite
- C. Super key
- D. Primary key

**Question No:149**

**(Marks:1)**

**Vu-Topper RM**

The entity relationship diagram is used to graphically represent the \_\_\_\_\_ database model.

- A. Condensed
- B. Physical
- C. Logical
- D. Conceptual**

**Question No:150**

**(Marks:1)**

**Vu-Topper RM**

The \_\_\_\_\_ determines that the link between two entities is optional or mandatory.

- A. Maximum cardinality
- B. Minimum cardinality**
- C. Maximum degree
- D. Minimum degree

**Question No:151**

**(Marks:1)**

**Vu-Topper RM**

Select the most appropriate statement. Which of the following data model is used to design logical database design?

- A. Relational**
- B. Hierarchal

- C. object oriented
- D. Any model can be used

**Question No:152** (Marks:1) **Vu-Topper RM**

The process of defining one or more subtypes of a super type and forming relationships is known as

**Specialization** **Google**

**Question No:153** (Marks:1) **Vu-Topper RM**

\_\_\_\_\_ are used by database administrator in situations where we have large number of records and wastage of small amount of space in each record can lead to loss of huge amount of data storage space.

**Code**

**Question No:154** (Marks:1) **Vu-Topper RM**

An attribute in a relation is foreign key If the \_\_\_\_\_ key from one relation is used as an attribute in that relation.

**Primary**

**Question No:155** (Marks:1) **Vu-Topper RM**

in data flow diagram which of the following operator is used, when data flows from a source process to one of the mentioned sinks?

**Ring Sum Operator**

**Question No:156** (Marks:1) **Vu-Topper RM**

The \_\_\_\_\_ rule specifies that an entity can be a member of only one subtype at a time.

**Disjoint**

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**Question No:157**

**(Marks:1)**

**Vu-Topper RM**

In relational algebra, which of the following Greek is used to represent the project operator?

**π (PI)**

**Question No:158**

**(Marks:1)**

**Vu-Topper RM**

In three level architecture of the database, which views is called community views of the database?

**Conceptual view**

**Question No:159**

**(Marks:1)**

**Vu-Topper RM**

Which of the following normal forms deals multivalued dependency?

**4NF**

**Question No:160**

**(Marks:1)**

**Vu-Topper RM**

While mapping \_\_\_\_\_ relationship, primary key of the entity type against one side of relationship will be included in the entity type on the many sides of the relationship as foreign key.

**One to many**

**Question No:161**

**(Marks:1)**

**Vu-Topper RM**

In data flow diagram \_\_\_\_\_ symbol is used to represents data flows.

**Arrow**

**Question No:162**

**(Marks:1)**

**Vu-Topper RM**

In the below entity type which attribute can work as an alternate key?  
Employee (Reg# Primary key, Name, CNIC, designation, address, phone)

**CNIC**

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**Question No:163**

**(Marks:1)**

**Vu-Topper RM**

From the following who is responsible for proper working of the database and DBMS?

**Database administrator**

**Question No:164**

**(Marks:1)**

**Vu-Topper RM**

Suppose that “Program” is an entity which represents different courses are being offered by an institute, like MCS. BCS etc. Following are the major attributes of this entity.

Identify the attribute which can be used as primary key.

**Program\_Code**

**Question No:165**

**(Marks:1)**

**Vu-Topper RM**

The following is an of \_\_\_\_\_ inference rule.

If stId  $\rightarrow$  prName and prName  $\rightarrow$  credits then stId  $\rightarrow$  credits

**Transitivity**

**Question No:166**

**(Marks:1)**

**Vu-Topper RM**

Which of the following is the example of a weak entity?

**The tire can exist without being attached to the car**

**Question No:167**

**(Marks:1)**

**Vu-Topper RM**

In Relational Data Model, the \_\_\_\_\_ of a relation is the number of columns in that relation

**Degree**

**Question No:168**

**(Marks:1)**

**Vu-Topper RM**

Which of the following normal form deals with possible loss less decompositions?

**5NF**

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**Question No:169**

**(Marks:1)**

**Vu-Topper RM**

Suppose we have a list of bank customers which availed loan facility from different branches of a bank. If we want to get a list of all customers and the amount of the loans excluding branch name. Which of the following operation allows us to generate this relation?

**Union**

**Question No:170**

**(Marks:1)**

**Vu-Topper RM**

Which of the following provides us data independency?

**3-Level Architecture**

**Question No:171**

**(Marks:1)**

**Vu-Topper RM**

Cross reference matrix is a tool available in the data dictionary, which helps us in finding \_\_\_\_\_.

**Entities of the database and their associations**

**Question No:172**

**(Marks:1)**

**Vu-Topper RM**

Conceptual database design, expressed in E-R data model can be implemented using any \_\_\_\_\_.

**Database Management System (DBMS)**

**Question No:173**

**(Marks:1)**

**Vu-Topper RM**

Which of the following might be represented with a single-valued attribute?

**Computer's processor speed**

**Question No:174**

**(Marks:1)**

**Vu-Topper RM**

Which of the following is a Unary operation?

**Project**

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**Question No:175** (Marks:1) **Vu-Topper RM**

Which of the following data model has the following components?

**Relational**

**Question No:176** (Marks:1) **Vu-Topper RM**

Which of the following Greek is used to represent the select operation?

**$\sigma$**

**Question No:177** (Marks:1) **Vu-Topper RM**

Data about data is called metadata.

**True**

False

**Question No:178** (Marks:1) **Vu-Topper RM**

Normalization of database is used to \_\_\_\_\_.

**Eliminate redundancy**

**Question No:179** (Marks:1) **Vu-Topper RM**

In student entity which of the following is the best example of multivalued attribute?

**Email address**

**Question No:180** (Marks:1) **Vu-Topper RM**

In which normal form, we convert composite attributes into individual attributes?

**1NF**

**Question No:181** (Marks:1) **Vu-Topper RM**

Which of the following tool is used to graphically represent the components and design of the system?

**DFD**

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**Question No:182**

**(Marks:1)**

**Vu-Topper RM**

Data type “BLOB” in database management system stands for \_\_\_\_.

**Binary Large Object**

**Question No:183**

**(Marks:1)**

**Vu-Topper RM**

In a three level DBMS architecture, the \_\_\_\_\_ level interacts directly with the users.

**External**

**Question No:184**

**(Marks:1)**

**Vu-Topper RM**

In the Database System \_\_\_\_\_ provides many features to ensure the data integrity.

**Database Management System (DBMS)**

**Question No:185**

**(Marks:1)**

**Vu-Topper RM**

\_\_\_\_\_ of the Database is most difficult to change when a database is created.

**Extension**

**Question No:186**

**(Marks:1)**

**Vu-Topper RM**

In Database development process, which phase involves designing of any new application for the enhancement of the system?

**Maintenance phase**

**Question No:187**

**(Marks:1)**

**Vu-Topper RM**

An attribute of an entity is associated with another attribute of the same entity is called:

**Recursive relationship**

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**Question No:188** (Marks:1) **Vu-Topper RM**  
Relational Data model is created in the \_\_\_\_\_ phase.

**Analysis**

**Question No:189** (Marks:1) **Vu-Topper RM**  
Database system saves lots of efforts and finances, this advantage provides \_\_\_\_\_.

**Time saving structure**

**Question No:190** (Marks:1) **Vu-Topper RM**  
Data inconsistency leads to a number of a problems such as \_\_\_\_\_.

**Loss of information and incorrect results**

**Question No:191** (Marks:1) **Vu-Topper RM**  
A row of a table represents a \_\_\_\_\_, whereas the column of the table represents the \_\_\_\_\_.

**Record, attribute**

**Question No:192** (Marks:1) **Vu-Topper RM**  
Every primary key (PK) will be a candidate key and every candidate key will be a \_\_\_\_\_.

**Super key**

**Question No:193** (Marks:1) **Vu-Topper RM**  
If we want to include attributes from two different relations, which of the following operations will be used?

**Union**

**Question No:194** (Marks:1) **Vu-Topper RM**  
When have two entities "Person" and "Doctor. Which of all is best suitable type of relationship between the mentioned entities?

## Sub type

**Question No:195** (Marks:1) **Vu-Topper RM**

The relationship between department to employee is \_\_\_\_\_.

**One to many**

**Question No:196** (Marks:1) **Vu-Topper RM**

The attribute HOBBY can have more than one values in ERD. The HOBBY is a-----attribute.

**Multivalued attribute**

**Question No:197** (Marks:1) **Vu-Topper RM**

\_\_\_\_\_ is used to find out that what values or attributes will appear in which reports, for this purpose the major item names are written in the row wise order and the reports which will be generated will be written in column wise order.

**Cross Reference Matrix**

**Question No:198** (Marks:1) **Vu-Topper RM**

Which of the following constraint states that in a relation, no attribute of a primary key (PK) can have null value?

**Entity Integrity Constraint**

**Question No:199** (Marks:1) **Vu-Topper RM**

Which of the following constraint means that if we do not give any value to any particular attribute, it will be given a certain value?

**Default Value**

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**Question No:200**

**(Marks:1)**

**Vu-Topper RM**

\_\_\_\_\_ are those languages in which what to do and how to do on the database is required.

**Procedural Languages**

**Question No:201**

**(Marks:1)**

**Vu-Topper RM**

The primary key of EMP table is \_\_\_\_\_ whereas foreign key of EMP table is \_\_\_\_\_.

**Empty**

**Question No:202**

**(Marks:1)**

**Vu-Topper RM**

Which of the following is not the component of Relational Data Model?

**Manipulation Language**

**Question No:203**

**(Marks:1)**

**Vu-Topper RM**

\_\_\_\_\_ are those attributes that are a combination of two or more than two attributes.

**Composite attributes**

**Question No:204**

**(Marks:1)**

**Vu-Topper RM**

Which of the following Greek letter is used to denote the select operation?

**Greek sigma ( )**

**Question No:205**

**(Marks:1)**

**Vu-Topper RM**

Which of the following is the example of a strong entity?

**Ahmad account of ABC bank has no existence if the ABC bank doesn't exist anymore**

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**Question No:206** (Marks:1) **Vu-Topper RM**  
Major benefit of data sharing is \_\_\_\_\_.

**Different applications need not to be stored repeatedly Page 15**

**Question No:207** (Marks:1) **Vu-Topper RM**  
A relationship that involves three entities called \_\_\_\_\_.

**Ternary relationship**

**Question No:208** (Marks:1) **Vu-Topper RM**  
Once the data has been transported to the physical level it is then managed by the \_\_\_\_

**System analysis**

**Question No:209** (Marks:1) **Vu-Topper RM**  
Which of the following is not a part of the Database Application Development Process?

**Validation**

**Question No:210** (Marks:1) **Vu-Topper RM**  
Changes at \_\_\_\_\_ levels of database architecture need \_\_\_\_\_ levels of user's attention.

**Different, different Page 34**

**Question No:211** (Marks:1) **Vu-Topper RM**  
The total participation by entities is represented in E-R diagram as

**Double lines Google**

**Question No:212** (Marks:1) **Vu-Topper RM**  
A key which consists of two or more attributes is called\_\_\_\_\_.

**Composite key**

**Question No:213**

**(Marks:1)**

**Vu-Topper RM**

The Entity Relationship Model consists of the following major constructs\_\_\_\_\_.

**Entity, Attribute and relationship**

**Question No:214**

**(Marks:1)**

**Vu-Topper RM**

Which model operates at the lowest level of abstraction?

**The physical model      Google**

**Question No:215**

**(Marks:1)**

**Vu-Topper RM**

Candidate keys, which are not selected as primary key are called\_\_\_\_\_.

**Alternate key.      Google**

**Question No:216**

**(Marks:1)**

**Vu-Topper RM**

In which phase of Database development process, specific Database management system (DBMS) is chosen?

**Logical data base design      Google**

**Question No:217**

**(Marks:1)**

**Vu-Topper RM**

Entities enrolled in a relationship are called its\_\_\_\_\_.

**Participants**

**Question No:218**

**(Marks:1)**

**Vu-Topper RM**

Which of the following is correct about Database modelling?

**Process of creating the logical structure of the database**

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**Question No:219**

**(Marks:1)**

**Vu-Topper RM**

In a three-level DBMS architecture, the \_\_\_\_\_ level interacts directly with the users.

**External**

**Question No:220**

**(Marks:1)**

**Vu-Topper RM**

Which model operates at the lowest level of abstraction?

**Internal**

**Question No:221**

**(Marks:1)**

**Vu-Topper RM**

From the following, who is responsible for proper working of the database and DBMS?

**Database administrator**

**Google**

**Question No:222**

**(Marks:1)**

**Vu-Topper RM**

RDM is simple there is just one structure and that is\_\_\_\_\_.

**Relation or a table**    **Google**

**Question No:223**

**(Marks:1)**

**Vu-Topper RM**

A \_\_\_\_\_ is used to combine rows from two or more tables, based on a related column between them.

**Joins**

**Google**

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