

Professional Online Academy Vu Topper RM



CS403-Database Management System Update MCQ'S Mid Term



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Question No:1

(Marks:1)

Vu-Topper RM

In Relational Data model, the values of the attributes come from the _____ domain.

- A. heterogeneous
- B. universal
- C. same**
- D. unique

Question No:2

(Marks:1)

Vu-Topper RM

How many types of cardinality are specified about relationship?

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

Question No:3

(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. Relationship
- C. Business
- D. Weak**

Question No:4

(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. Join operation
- B. Select Operator
- C. Binary operator
- D. Project operator**

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Question No:5

(Marks:1)

Vu-Topper RM

In relational algebra, which of the following Greek letter is used to represent the Project Operator?

- A. σ
- B. π
- C. Π**
- D. Ω

Question No:6

(Marks:1)

Vu-Topper RM

Which of the following is the limitation of Data flow diagram?

- A. Not rich in semantics**
- B. Simple, and hide complexities only
- C. Focused on flow of information only
- D. Have less constructs

Question No:7

(Marks:1)

Vu-Topper RM

Which of the following provides us data independence?

- A. 3-Level Architecture**
- B. The Traditional File Organization
- C. Cross Reference Matrix
- D. Inter Schema Mapping

Question No:8

(Marks:1)

Vu-Topper RM

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

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

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Question No:9

(Marks:1)

Vu-Topper RM

A candidate key that does not have a null value and is selected to uniquely identify all other attribute values in any given row is called a

_____.

- A. secondary key
- B. superkey
- C. primary key**
- D. Alternate key

Question No:10

(Marks:1)

Vu-Topper RM

Consider an example XYZ university might need to record which teachers taught which subject in which courses. It is an example of -----
-----relationship.

- A. N-ary
- B. Unary
- C. Binary
- D. Ternary**

Question No:11

(Marks:1)

Vu-Topper RM

In three level architecture of the database which level is responsible for storage of data on some storage media?

- A. External view
- B. Internal/Physical view**
- C. Conceptual view
- D. Logical view

Question No:12

(Marks:1)

Vu-Topper RM

Which of the following is correct about the Context Level DFD?

- A. Communication between external entities

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B. Shows overall working of the system

C. Data stores are used

D. Consist of single process

Question No:13

(Marks:1)

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The _____ can see entire information structure of the database.

A. External viewer

B. Database user

C. DBTG

D. DBA

Question No:14

(Marks:1)

Vu-Topper RM

A mapping is one to one if each entity in X is associated with at most _____ entity in Y and vice versa.

A. Four

B. Three

C. One

D. Two

Question No:15

(Marks:1)

Vu-Topper RM

Within a table, each primary key value _____.

A. must be numeric

B. must be unique

C. is always the first field in each table

D. is a minimal superkey

Question No:16

(Marks:1)

Vu-Topper RM

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

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A. Recursive relationship

- B. Binary relationship
- C. Many to many relationship
- D. One to many relationship

Question No:17

(Marks:1)

Vu-Topper RM

The Physical layer is used for data storage on disk and it is the responsibility of the _____.

- A. Database management system
- B. Database administrator
- C. Operating system**
- D. Application software

Question No:18

(Marks:1)

Vu-Topper RM

Which of the following is the major drawback of file processing system?

- A. Physical Independence
- B. Sharing of data
- C. Non-sharing of data**
- D. Use of Punch card

Question No:19

(Marks:1)

Vu-Topper RM

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

- A. An employee supervises another employee
- B. The tire can exist without being attached to the car
- C. Shahid account of XYZ bank has no existence if the XYZ bank doesn't exist anymore**
- D. Ali is a good friend of Bilal

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Question No:20

(Marks:1)

Vu-Topper RM

Which of the following semantic model is used for the graphical representation of the conceptual database design?

A. Entity Relationship (ER)

B. Relational

C. Network

D. Object Oriented

Question No:21

(Marks:1)

Vu-Topper RM

Subject may be the prerequisite of another subject, is the example of----- relationship.

A. Ternary

B. Binary

C. N-ary

D. Unary

Question No:22

(Marks:1)

Vu-Topper RM

In the employee table, we may store the name, father name, phone, but age can be computed from the date of birth. So Age is the best example of the ----- attribute.

A. Composite

B. Derived

C. Single valued

D. Multivalued

Question No:23

(Marks:1)

Vu-Topper RM

In which type of join, we take the natural join of two relations in 1st step, and then we project the attributes of the first table only?

A. Theta join

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B. Semi Join

C. Outer join

D. Equi-join

Question No:24

(Marks:1)

Vu-Topper RM

We have two entities "Person" and "Doctor". Which of the following is best suitable type of relationship between the mentioned entities?

A. Sub type

B. Inheritance

C. Super type

D. Unary

Question No:25

(Marks:1)

Vu-Topper RM

An example of ----- relationship can be seen between project and employee because an employee can work on several projects and at the same time, a project has several employees.

A. One-to-many

B. One-to-one

C. Many-to-one

D. Many-to-many

Question No:26

(Marks:1)

Vu-Topper RM

Which of the following is a true statement?

A. The super type entity contains the attributes of the sub type entity.

B. The super type entity and sub type entity are same.

C. The sub type entity contains the attributes of the super type entity.

D. The sub type entity does not contains the attributes of the super type entity.

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Question No:27

(Marks:1)

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Which of the following specifies the number of instances of one entity that can or must be associated with each instance of another entity?

- A. Multi-valued attribute
- B. Entity instance
- C. Cardinality constraint**
- D. Associative entity

Question No:28

(Marks:1)

Vu-Topper RM

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

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

Question No:29

(Marks:1)

Vu-Topper RM

In entity-relationship diagram, the entity type which has existence dependency constraint is classified as

- A. Weak entity**
- B. Strong entity
- C. Single entity
- D. Foreign entity

Question No:30

(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**

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- C. Select Operator
- D. Join operation

Question No:31 (Marks:1) **Vu-Topper RM**

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

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

Question No:32 (Marks:1) **Vu-Topper RM**

Which of the following is a feature of CHECK constraint?

- A. is a unique identifier for a row within a database table.
- B. limit the values that can be placed in a column.**
- C. enforces the uniqueness of the values in a set of columns.
- D. used to enforce referential integrity

Question No:33 (Marks:1) **Vu-Topper RM**

If we make changes in the extension of database, it will affect _____.

- A. Multiple records
- B. Multiple fields
- C. A single record
- D. All stored records**

Question No:34 (Marks:1) **Vu-Topper RM**

The attribute EXPERIENCE is calculated from DATE_OF_JOINING attribute. The EXPERIENCE is a _____ attribute.

- A. Composite

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B. Derived

- C. Multi-valued
- D. Stored

Question No:35

(Marks:1)

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If $A \rightarrow BC$ then $A \rightarrow B$ and $A \rightarrow C$

The above rule follows _____ inference rule.

- A. Projectivity
- B. Additivity

C. Transitivity

- D. Augmentation

Question No:36

(Marks:1)

Vu-Topper RM

Which of the following is not a guideline for drawing a Data Flow Diagram?

- A. Display the physical location of data files**
- B. Determine system boundaries
- C. Subdivide the DFD
- D. Develop a context diagram

Question No:37

(Marks:1)

Vu-Topper RM

If we simply say join, it means the _____.

- A. Equi-join**
- B. Natural join
- C. Theta Join
- D. Outer join

Question No:38

(Marks:1)

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The process of normalization

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- A. is finding the key of a relation
- B. is automatic using a computer program
- C. is manual and requires semantic information
- D. requires one to understand dependency between attributes**

Question No:39 (Marks:1) **Vu-Topper RM**

Relational Calculus is a _____ relational data manipulation language.

- A. Non-Procedural, Informal
- B. Procedural, Informal
- C. Procedural, Formal
- D. Non-Procedural, Formal**

Question No:40 (Marks:1) **Vu-Topper RM**

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

- A. Insertion anomalies
- B. Redundancy
- C. Update anomalies
- D. Deletion anomalies**

Question No:41 (Marks:1) **Vu-Topper RM**

How many different types of joins exist in DBMS?

- A. 5
- B. 3
- C. 2
- D. 4**

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Question No:42

(Marks:1)

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A functional dependency is a type of relationship between _____.

- A. Tables
- B. Objects
- C. Attributes**
- D. Entities

Question No:43

(Marks:1)

Vu-Topper RM

A relational table is in third normal form (3NF) if it is already in 2NF and every non-key column is non-transitively dependent upon its

- _____.
- A. Candidate Key
- B. Super Key
- C. Primary Key**
- D. Foreign Key

Question No:44

(Marks:1)

Vu-Topper RM

Which of the following is true regarding foreign keys?

- A. There can only be one foreign key in a relation
- B. Foreign key is not a super key
- C. There can be as many foreign keys as needed**
- D. Each table in database must have a foreign key

Question No:45

(Marks:1)

Vu-Topper RM

Which of the following describe the Degree of a relationships in E-R Data Model?

- A. Number of participating entity types**
- B. Number of participating constraints
- C. Number of participating attribute types

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D. Number of participating relations

Question No:46

(Marks:1)

Vu-Topper RM

What do you mean by one to many relationship between “Teacher” and “Class” table?

- A. Many Classes may have many Teachers
- B. One Class may have many Teachers
- C. One Teacher can have many Classes**
- D. Many Teachers may have many Classes

Question No:47

(Marks:1)

Vu-Topper RM

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

- A. Composite
- B. Multi valued
- C. Derived**
- D. Single valued

Question No:48

(Marks:1)

Vu-Topper RM

In Relational Data Model, the _____ of a relation is the number of rows in that relation.

- A. Domain
- B. Degree
- C. Cardinality Page 133**
- D. Constraint

Question No:49

(Marks:1)

Vu-Topper RM

In the relational model, the number of attributes and number of tuples in a relation are termed as _____ and _____ respectively.

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- A. domain, degree
- B. cardinality, domain
- C. cardinality, degree
- D. degree, cardinality**

Question No:50 (Marks:1) **Vu-Topper RM**

In relational algebra, which of the following operator is used to find tuples that are present in one relation but are not in another?

- A. Intersection
- B. Set-difference**
- C. Cartesian Product
- D. Union

Question No:51 (Marks:1) **Vu-Topper RM**

A vehicle can be a Car or a Bus but do not have to be either. It is an example of ----- constraint.

- A. Referential integrity
- B. Disjointness rule
- C. Total completeness
- D. Partial completeness**

Question No:52 (Marks:1) **Vu-Topper RM**

For which binary operation, relations are not required to be union compatible?

- A. Intersection
- B. Union
- C. Difference
- D. Cartesian product**

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Question No:53

(Marks:1)

Vu-Topper RM

Consider a relationship between entities 'Teacher' and 'Student'. The teacher teaches the student. It is an example of ----- relationship.

- A. Unary
- B. N-ary
- C. Binary**
- D. Ternary

Question No:54

(Marks:1)

Vu-Topper RM

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

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

Question No:55

(Marks:1)

Vu-Topper RM

Which of the following is NOT the classification of entity type?

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

Question No:56

(Marks:1)

Vu-Topper RM

The database system deals with large amount of data, this property is called _____.

- A. Scalability**
- B. Robustness

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- C. Database design
- D. Concurrency

Question No:57 (Marks:1) **Vu-Topper RM**

Which of the following is the best description of the data security in DBMS?

- A. Efficient check on all users' access**
- B. Multiple users accessing the data at the same time
- C. User can access his previously stored data even if some website is hacked
- D. Changes made to one location are automatically updated to another location

Question No:58 (Marks:1) **Vu-Topper RM**

DBMS select a specific File organization for the storage of data on disk, to implement that specific file system the DBMS needs to create specific _____.

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

Question No:59 (Marks:1) **Vu-Topper RM**

In three level architecture of the database, which level is helpful to display data which is not actually placed in the database?

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

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Question No:60

(Marks:1)

Vu-Topper RM

From the following database users, who have clear idea of the structure of the database and know all the needs of an organization?

- A. End users
- B. Naive users
- C. Application programmers**
- D. Sophisticated users

Question No:61

(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:62

(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:63

(Marks:1)

Vu-Topper RM

The conceptual database design can be transformed into any _____.

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

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D. Entity set

Question No:64

(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:65

(Marks:1)

Vu-Topper RM

In _____ appropriate data model is chosen.

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

Page 122

Question No:66

(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

Question No:67

(Marks:1)

Vu-Topper RM

Recursive relationship is also called _____

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

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D. Secondary

Question No:68

(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

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Question No:69

(Marks:1)

Vu-Topper RM

Each _____ of a table contains atomic/single value.

- A. Cell** **Page 127**
- B. Row
- C. Column
- D. Record

Question No:70

(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:71

(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

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D. Always use abbreviations as they are convenient

Question No:72

(Marks:1)

Vu-Topper RM

There are _____ basic properties of the database relations.

A. Four

B. Three

C. Six Page 127

D. Two

Question No:73

(Marks:1)

Vu-Topper RM

A collection of concepts that can be used to describe the structure of a database is called _____.

A. Database

B. DBMS

C. Data model

D. Data

Question No:74

(Marks:1)

Vu-Topper RM

Any combination of attributes with super key is _____.

A. Primary key

B. Foreign key

C. Super key Page 82

D. Candidate key

Question No:75

(Marks:1)

Vu-Topper RM

Binary relationships are those, which are established between

A. One entity type

B. Two entity type Page 140

C. Three entity type

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D. Unlimited entities

Question No:76

(Marks:1)

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Collection of raw facts is called _____.

A. Information

B. Object

C. Output

D. Data

Question No:77

(Marks:1)

Vu-Topper RM

A software package designed to store and manages databases is called

_____.

A. Database

B. DBMS

C. Data model

D. Data

Question No:78

(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

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Question No:79

(Marks:1)

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The attribute that is calculated from other attribute is called _____.

A. Derived attribute

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- B. Multi-valued attribute
- C. Composite attribute
- D. Simple attribute

Question No:80 (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:81 (Marks:1) **Vu-Topper RM**

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

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

Question No:82 (Marks:1) **Vu-Topper RM**

Theta join is denoted mathematically as _____.

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

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Question No:83

(Marks:1)

Vu-Topper RM

Each component of DBMS performs _____ functions.

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

Question No:84

(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:85

(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**

Question No:86

(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

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D. Foreign key of second relation

Question No:87

(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:88

(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:89

(Marks:1)

Vu-Topper RM

User rights information is stored in _____.

A. Physical database

B. Catalog Page 46

C. Logical database

D. Buffer

Question No:90

(Marks:1)

Vu-Topper RM

Logical data independency provides independency to change in _____ model.

A. External

B. Logical

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C. Conceptual

D. Internal

Question No:91

(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:92

(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:93

(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

Question No:94

(Marks:1)

Vu-Topper RM

The Three levels architecture is useful for _____.

- A. Arranging the data in an organized manner

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B. Hiding the details of internal systems

- C. Breaking the data access restriction
- D. Storing definitions of the structures

Question No:95 (Marks:1) **Vu-Topper RM**

Duplication of data in controlled redundancy is controlled and _____.

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

Question No:96 (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:97 (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:98 (Marks:1) **Vu-Topper RM**

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

- A. Database

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B. Relation

C. Schema

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D. None

Question No:99

(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:100

(Marks:1)

Vu-Topper RM

In cross reference matrix attributes are mentioned on _____ and reports are mentioned on _____.

A. Y axis, X axis

B. Y axis, Z axis

C. X axis, Y axis

D. X axis, Z axis

Question No:101

(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:102

(Marks:1)

Vu-Topper RM

Data Redundancy Means _____.

A. Security of data

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B. Duplication of data

C. Management of data

D. Recovery of data

Question No:103

(Marks:1)

Vu-Topper RM

Which of the following is a type of dependency?

A. DBMS

B. ERD

C. DFD

D. Referential

Question No:104

(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

Question No:105

(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:106

(Marks:1)

Vu-Topper RM

Logical database design, like conceptual database design is

our _____.

A. Data model

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

Question No:107

(Marks:1)

Vu-Topper RM

If a single instance of “Student” is associated with the many instances of the “Subject” 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:108

(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:109

(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

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Question No:110

(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:111

(Marks:1)

Vu-Topper RM

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

- A. Union** **Page 166**
- B. Decomposition
- C. Augmentation
- D. Reflexivity

Question No:112

(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:113

(Marks:1)

Vu-Topper RM

Database relation is also represented in a two dimensional structure called _____.

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

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Question No:114

(Marks:1)

Vu-Topper RM

Each table must have a ____ key.

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

Question No:115

(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:116

(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

Question No:117

(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

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Question No:118

(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

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 relationship 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

Relational data model is widely accepted due to its mathematically proven foundation and its _____.

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

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Question No:122

(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:123

(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:124

(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

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- B. Second normal form
- C. Third normal form
- D. Augmentation

Question No:125

(Marks:1)

Vu-Topper RM

Atomicity is a feature of _____.

- A. 1NF**
- B. 2NF
- C. 3NF

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D. BCNF

Question No:126

(Marks:1)

Vu-Topper RM

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

A. Five

B. Ten

C. Fifteen

D. Twenty

Question No:127

(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:128

(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

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Question No:129

(Marks:1)

Vu-Topper RM

_____ states that in a relation no attribute 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:130

(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:131

(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

Question No:132

(Marks:1)

Vu-Topper RM

An attribute that is the collection of some other attribute(s) is known as _____ attribute.

- A. Multi-valued
- B. Single-valued
- C. No-valued

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D. Composite

Question No:133

(Marks:1)

Vu-Topper RM

For 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:134

(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:135

(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:136

(Marks:1)

Vu-Topper RM

The _____ is performed to select certain rows or tuples of a table, so it performs its action on the table horizontally.

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- A. Binary operator
- B. Project operator
- C. Join operator
- D. Select operation**

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Question No:137

(Marks:1)

Vu-Topper RM

If an instance of an entity can exist without being linked with an instance of another entity then the minimum cardinality has to be

_____.

- A. Zero
- B. One**
- C. Two
- D. Compulsory

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Question No:138

(Marks:1)

Vu-Topper RM

Which of the following might be represented with a multivalued attribute?

- A. Book title
- B. Class location
- C. Person's name

D. Bank account balance

Question No:139

(Marks:1)

Vu-Topper RM

If $A \rightarrow B$ and $CB \rightarrow D$, then $AC \rightarrow D$. 1. The above rule follows _____ inference rule.?

- A. Additivity
- B. Projectivity
- C. Decomposition

D. Pseudo transitivity

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Question No:140

(Marks:1)

Vu-Topper RM

Which of the following is a completeness constraint?

- A. Total generalization Constraint
- B. Hybrid completeness Constraint
- C. Partial Completeness Constraint**
- D. Partial generalization Constraint

Question No:141

(Marks:1)

Vu-Topper RM

The outcome of _____ phase is the conceptual database design, which is drawn through E-R model.

- A. Logical
- B. Physical
- C. Analysis Page 122**
- D. Conclusion

Question No:142

(Marks:1)

Vu-Topper RM

In data flow diagram _____ symbol is used to represents data flows.

- A. Arrow Google**
- B. Circle
- C. Square
- D. Diamond

Question No:143

(Marks:1)

Vu-Topper RM

The primary key of EMP table is _____ whereas foreign key of EMP table is _____.

- A. depId, empId
- B. empId, depId**
- C. depId, empName
- D. empName, depId

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Question No:144

(Marks:1)

Vu-Topper RM

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

A. SQL

B. Procedural

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C. Non-procedural

D. Relational calculus

Question No:145

(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.

A. Max-Duration

B. Program-Code

C. Program-level

D. No-of-Semesters

Question No:146

(Marks:1)

Vu-Topper RM

The following is an example of _____ inference rule.

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

A. Augmentation

B. Transitivity

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C. Projectivity

D. Additivity

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Question No:147

(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.

- A. Context Diagram
- B. Data Flow Diagram
- C. Cross Reference Matrix**
- D. Entity Relationship Diagram

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Question No:148

(Marks:1)

Vu-Topper RM

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

- A. Derived
- B. Composite
- C. Multi valued**
- D. Single-valued

Question No:149

(Marks:1)

Vu-Topper RM

The relationship between department to employees is _____.

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

Question No:150

(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?

A. Project

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- B. Union
- C. Set difference
- D. Cartesian product

Question No:151 (Marks:1) **Vu-Topper RM**

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

- A. Software
- B. Data model
- C. Operating system
- D. Database Management System (DBMS)**

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

Which of the following is a Unary operation?

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

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

Which of the following data model has the following components?

1. Construct (Tables)
 2. Manipulation language (SQL)
 3. Integrity constraints?
- A. Semantic
 - B. Relational**
 - C. Conceptual
 - D. Entity Relationship

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Question No:154

(Marks:1)

Vu-Topper RM

Data about data is called metadata.

True

False

Question No:155

(Marks:1)

Vu-Topper RM

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

A. Student id

B. CNIC number

C. Email address

D. Registration number

Question No:156

(Marks:1)

Vu-Topper RM

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

A. CRF

B. EDF

C. CRM

D. DFD

Question No:157

(Marks:1)

Vu-Topper RM

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

A. Intention

B. Expansion

C. Extension

D. Indentation

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Question No:158

(Marks:1)

Vu-Topper RM

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

- A. Testing phase
- B. Analysis phase
- C. Maintenance phase**
- D. Implementation phase

Question No:159

(Marks:1)

Vu-Topper RM

Relational Data model is created in the _____ phase.

- A. Logical design**
- B. Physical design
- C. Analysis
- D. Preliminary Study

Question No:160

(Marks:1)

Vu-Topper RM

Database system saves lots of efforts and finances, this advantage provides _____.

- A. Economy of scale**
- B. Time saving structure
- C. Better concurrency control
- D. Faster Application Development

Question No:161

(Marks:1)

Vu-Topper RM

Data inconsistency leads to a number of problems such as _____.

- A. Data isolation
- B. less secure data
- C. Slow database development
- D. loss of information and incorrect results**

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Question No:162

(Marks:1)

Vu-Topper RM

A row of a table represents a _____, whereas the column of the table represents the _____.

- A. Property, tuple
- B. Attribute, record
- C. Property, record
- D. Record, attribute**

Question No:163

(Marks:1)

Vu-Topper RM

Every primary key (PK) will be a candidate key and every candidate key will be a _____.

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

Question No:164

(Marks:1)

Vu-Topper RM

If we want to include attributes from two different relations, which of the following operations will be used?

- A. Union**
- B. Select
- C. Project
- D. Difference

Question No:165

(Marks:1)

Vu-Topper RM

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

- A. 5NF
- B. 3NF
- C. 2NF

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D. 4NF

Question No:166

(Marks:1)

Vu-Topper RM

In Relational Data Model, the _____ of a relation is the number of columns in that relation.

A. Domain

B. Degree Page 133

C. Cardinality

D. Constraint

Question No:167

(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?

A. Default

B. Domain

C. Entity Integrity

Google

D. Referential integrity

Question No:168

(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?

A. Domain

B. Default

C. Entity Integrity

D. Referential integrity

Question No:169

(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)

A. CNIC

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- B. Phone
- C. Address
- D. Designation

Question No:170

(Marks:1)

Vu-Topper RM

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

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

Question No:171

(Marks:1)

Vu-Topper RM

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

- A. σ**
- B. ξ
- C. π
- D. Ω

Question No:172

(Marks:1)

Vu-Topper RM

A relationship that involves three entities called _____.

- A. N-ary relationship
- B. Unary relationship
- C. Binary relationship
- D. Ternary relationship**

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Question No:173

(Marks:1)

Vu-Topper RM

Which of the following is not a part of the Database Application Development Process?

- A. Validation**
- B. Implementation
- C. Database Design
- D. Application Programs

Question No:174

(Marks:1)

Vu-Topper RM

The total participation by entities is represented in E-R diagram as

- A. Circle
- B. Double lines Google**
- C. Dashed line
- D. Double rectangle

Question No:175

(Marks:1)

Vu-Topper RM

A key which consist of two or more attributes is called _____.

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

Question No:176

(Marks:1)

Vu-Topper RM

The Entity Relationship Model consists of the following major constructs _____.

- A. Entities, attributes and Relationships**
- B. Entities, Relationships and objects
- C. Entities, attributes and Records
- D. External entities, Relationships and Processes

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Question No:177

(Marks:1)

Vu-Topper RM

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

- A. Foreign Keys
- B. Alternate key.**
- C. Secondary Keys
- D. Composite Keys

Google

Question No:178

(Marks:1)

Vu-Topper RM

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

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

Question No:179

(Marks:1)

Vu-Topper RM

RDM is simple there is just one structure and that is _____.

- A. Attributes
- B. E-R model
- C. Data model

D. A Relation or a table

Google

Question No:180

(Marks:1)

Vu-Topper RM

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

- A. Select operator
- B. Project operator

C. Join operation

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D. Delete operator

Question No:181

(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 side of the relationship as foreign key.

A. One to many

B. Many to many

C. One to one

D. Many to one

Question No:182

(Marks:1)

Vu-Topper RM

Which of the following normal form deals with multivalued dependency?

A. 4NF

B. 1NF

C. 2NF

D. 3NF

Question No:183

(Marks:1)

Vu-Topper RM

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

A. Design view

B. Internal view

C. External view

D. Conceptual view

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Question No:184

(Marks:1)

Vu-Topper RM

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

- A. Disjoint**
- B. Inclusion
- C. Exclusion
- D. Removal

Question No:185

(Marks:1)

Vu-Topper RM

An attribute in a relation is a foreign key if the _____ key from one relation is used as an attribute in that relation.

- A. Sub
- B. Soper
- C. Primary**
- D. Candidate

Google

Question No:186

(Marks:1)

Vu-Topper RM

_____ is the first computer-based approach for handling the commercial or business applications.

- A. Scientific systems
- B. Database system**
- C. Record base system
- D. File processing system

Page 12

Question No:187

(Marks:1)

Vu-Topper RM

Which of the following change can cause problem in database levels?

- A. Adding a new field in a file
- B. Adding a file to the database
- C. Changing the type of a specific field

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D. Deleting an attribute from the database structure

Question No:188

(Marks:1)

Vu-Topper RM

Which of the following is incorrect about attributes?

- A. Name and the domain, are part of an attribute.
- B. One entity type may have two attributes with same name.**
- C. One entity type cannot have two attributes with same name.
- D. Different entity types may have attributes with the same name.

Question No:189

(Marks:1)

Vu-Topper RM

A Database System is designed to meet the information needs of _____ in an organization.

- A. Single user
- B. Multiple users**
- C. Application user
- D. Database administrator

Page 10

Question No:190

(Marks:1)

Vu-Topper RM

The DBMS uses the _____ to access the database at each layer or model.

- A. Mapping rules
- B. Data about data
- C. Data about data
- D. Data dictionary**

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Question No:191

(Marks:1)

Vu-Topper RM

A relationship is an association between two entities, or between an entity and itself. The diamond symbol for a relationship is if one of the participants is dependent on the other.

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- A. Single
- B. Dotted
- C. Doubled**
- D. None of these

Question No:192 (Marks:1) **Vu-Topper RM**

In database development process, which of the following is related to requirement gathering phase?

- A. Proper study of system
- B. Detailed study of system**
- C. Detailed study of database
- D. Detailed study of application

Question No:193 (Marks:1) **Vu-Topper RM**

In data flow diagram (DFD) _____ is a repository for the storage of the data.

- A. Process
- B. Schema
- C. Data store** **Page 57**
- D. Data dictionary

Question No:194 (Marks:1) **Vu-Topper RM**

Which of the following is NOT the type of key?

- A. Super key
- B. Primary key
- C. Derived key** **Page 81**
- D. Candidate key

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Question No:195

(Marks:1)

Vu-Topper RM

Which of the following is called a replacement of the manual file system?

- A. Recode based system
- B. File processing system**
- C. Commercial applications
- D. Computer network system

Question No:196

(Marks:1)

Vu-Topper RM

The function that an entity plays in a relationship is called that entity's _____.

- A. Role**
- B. Position
- C. Instance
- D. Participation

Question No:197

(Marks:1)

Vu-Topper RM

Which of the following database environment causes a network overhead?

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

Question No:198

(Marks:1)

Vu-Topper RM

Internal schema/view defines the _____ of the data.

- A. Source
- B. Structure**
- C. Transaction

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D. Functionality

Question No:199

(Marks:1)

Vu-Topper RM

Suppose we have two entities department and University. Which type of dependency exists between these two entities?

- A. Integral
- B. Identifier
- C. Existence**
- D. Referential

Question No:200

(Marks:1)

Vu-Topper RM

In Relational Data model, an attribute is a _____ in a relation.

- A. Row
- B. Value
- C. Tuples
- D. Column** **Google**

Question No:201

(Marks:1)

Vu-Topper RM

The external entity having only a single instance will be a part of _____ but will not be a part of _____.

- A. RDM, DFD
 - B. ERD, RDM
 - C. DFD, ERD**
 - D. ERD, DFD
- Page 114**

Question No:202

(Marks:1)

Vu-Topper RM

The RDM(Relational Data Model) is popular due to its two major strengths and they are _____.

- A. Simplicity/ Weak Mathematical Foundation

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B. Complexity/Easy Mathematical Foundation

C. Simplicity/ Strong Mathematical Foundation Page 125

D. Complexity/ Weak Mathematical Foundation

Question No:203

(Marks:1)

Vu-Topper RM

_____ is the next stage of conceptual database design.

A. Testing

B. Coding

C. Deployment

D. Logical database design Google

Question No:204

(Marks:1)

Vu-Topper RM

In _____ database design, an appropriate data model is chosen, and it becomes tool _____.

A. Logical, independent

B. Logical, dependent Page 122

C. Conceptual, dependent

D. Conceptual, independent

Question No:205

(Marks:1)

Vu-Topper RM

Which of the following constraint states that if a foreign key exists in a relation, either the foreign key value must match the primary key value of some tuple in its home relation or the foreign key value must be completely null?

A. Default

B. Domain

C. Entity Integrity

D. Referential integrity Google

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Question No:206

(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:207

(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:208

(Marks:1)

Vu-Topper RM

Functional dependencies under interference rule reflexivity are called _____ dependencies.

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

Question No:209

(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

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Question No:210

(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:211

(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:212

(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

Question No:213

(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

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D. Data model

Question No:214

(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:215

(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:216

(Marks:1)

Vu-Topper RM

_____ is same as equi-join with a slight difference.

A. Natural join

Page 159

B. Semi join

C. Outer join

D. Theta join

Question No:217

(Marks:1)

Vu-Topper RM

Conceptual database design is implemented using a _____.

A. Hierarchical data model

B. Semantic data model

C. Relational data model

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D. Network data model

Question No:218

(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

Question No:219

(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:220

(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:221

(Marks:1)

Vu-Topper RM

_____ is an example of metadata

- A. Ali
- B. Address

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- C. Person
- D. Student**

Question No:222 (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:223 (Marks:1) **Vu-Topper RM**
How many types of dependencies are?

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

Question No:224 (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:225 (Marks:1) **Vu-Topper RM**
Which of the following is not a key?

- A. Super key
- B. Alternate key

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C. Integrity constraint key

D. Primary key

Question No:226

(Marks:1)

Vu-Topper RM

_____ are called participants, when enrolled in a relationship.

A. Attributes

B. Relations

C. Entities

D. Keys

Question No:227

(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

Question No:228

(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

Question No:229

(Marks:1)

Vu-Topper RM

_____ is not an operation of relational algebra.

A. Addition

B. Union

C. Cartesian product

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D. Set difference

Question No:230

(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:231

(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:232

(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:233

(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

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Question No:234

(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**

Question No:235

(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:236

(Marks:1)

Vu-Topper RM

If an entity is linked with itself, then it is called _____ relationship.

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

Question No:237

(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.

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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:238

(Marks:1)

Vu-Topper RM

Normalization is a process of restructuring a relation to

A. Minimize duplication of data in a database

B. Maximize duplication of data to ensure reliability

C. Make it of uniform size

D. Allow addition of data

Question No:239

(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:240

(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:241

(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

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D. Recursive relationship

Question No:242

(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 the above

Question No:243

(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:244

(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:245

(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

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- 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:246 (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:247 (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:248 (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

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Question No:249 (Marks:1) **Vu-Topper RM**

Free standing data dictionary is created by Using _____.

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- A. DFD
- B. Database

C. CASE tools Page 65

- D. Cross reference matrix

Question No:250

(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:251

(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 Page 166

- D. Additivity

Question No:252

(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

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Question No:253

(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:254

(Marks:1)

Vu-Topper RM

How many types of cardinalities is specified about relationship?

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

Question No:255

(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:256

(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**

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Question No:257

(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:258

(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:259

(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:260

(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

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C. Recovery service

D. Authorization service

Question No:261

(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:262

(Marks:1)

Vu-Topper RM

Which of the following is correct regarding Dataflow diagram?

- A. The dataflow must be bidirectional
- B. Created at increasing levels of detail**
- C. Single DFD is required to represent a system
- D. Used to represent the relationships among the external entities

Question No:263

(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**

Question No:264

(Marks:1)

Vu-Topper RM

Controlling redundancy in a database management system DOES NOT help to

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

Question No:265

(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:266

(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:267

(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

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Question No:268

(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:269

(Marks:1)

Vu-Topper RM

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

- A. Aggregation.
- B. Generalization
- C. Specialization**
- D. Selecting classes.

Google

Question No:270

(Marks:1)

Vu-Topper RM

If B is a subset of A, then $A \supset B$. This also implies that $A \supset A$ always holds. The inference Rule applies is:

- A. Additivity
- B. Projectivity
- C. Decomposition

D. Reflexivity

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Question No:271

(Marks:1)

Vu-Topper RM

If we have $A \supset B$ then $AC \supset BC$ The inference Rule applies is:

- A. Union
- B. Decomposition

C. Augmentation

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D. Reflexivity

Question No:272

(Marks:1)

Vu-Topper RM

Which of the following provides us data independency?

A. 3-Level Architecture

B. Inter Schema Mapping

C. Cross Reference Matrix

D. The Traditional File Organization

Question No:273

(Marks:1)

Vu-Topper RM

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

A. Person's hobby

B. Person's phone number

C. Computer's processor speed

D. Employee's educational background

Question No:274

(Marks:1)

Vu-Topper RM

Changes at _____ levels of database architecture need _____ levels of user's attention.

A. different, same

B. different, different

C. same, different

D. same, same

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Question No:275

(Marks:1)

Vu-Topper RM

Which model operates at the lowest level of abstraction?

A. External

B. Internal

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C. Physical **Google**
D. Conceptual

Question No:276 **(Marks:1)** **Vu-Topper RM**
In which phase of Database development process, specific Database management system (DBMS) is chosen?

- A. Logical design** **Google**
B. Physical Design
C. Conceptual Design
D. Development Phase

Question No:277 **(Marks:1)** **Vu-Topper RM**
Which of the following is correct about Database modeling?

- A. Process of creating the schemas of the database.
B. Process of creating the logical structure of the database.
C. Process of creating the physical structure of the database.
D. Process of creating the logical structure of the database

Question No:278 **(Marks:1)** **Vu-Topper RM**
From the following, who is responsible for proper working of the database and DBMS?

- A. Sophisticated user
B. Database designer
C. Admin of the application
D. Database administrator **Google**

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Question No:279

(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.

A. Code Page 185

B. Symbols

C. Variables

D. Special characters

Question No:280

(Marks:1)

Vu-Topper RM

Which type of Data flow diagram (DFD) explains the functionality of the processes?

A. Level 0 diagram

B. Detailed diagram

C. Level "Not" diagram

D. Context level diagram

Question No:281

(Marks:1)

Vu-Topper RM

In an employee entity which of the following attribute will work as a primary key?

A. Salary

B. Zipcode

C. Address

D. Employee id

Question No:282

(Marks:1)

Vu-Topper RM

Which is not correct according to Data Flow Diagrams?

A. DFDs are simple, and hide complexities.

B. DFDs provide us a way of expressing decision points.

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- C. DFDs show the flow of data between different processes of a specific system.
- D. DFDs are Descriptive and create links between processes which describe the information flow.

Question No:283 (Marks:1) **Vu-Topper RM**

When data stored onto a magnetic media, it is stored in _____.

- A. Text format
- B. Numeric from
- C. Binary format**
- D. Encrypted form

Question No:284 (Marks:1) **Vu-Topper RM**

In database development process, proper study of the system is called _____.

- A. System analysis
- B. Preliminary Study** **Page 51**
- C. Requirement analysis
- D. Real word scenario study

Question No:285 (Marks:1) **Vu-Topper RM**

Which of the following belongs to the Semantic Data Model?

- A. ER- Data Model** **Page 69**
- B. Network Data model
- C. Hierarchical Data model
- D. Record Based Data Model

Question No:286 (Marks:1) **Vu-Topper RM**

Consider the following two tables:

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EMP (empId, empName, qual, depId) DEPT (depId, depName, numEmp) The primary key of EMP table is _____ whereas foreign key of EMP table is _____.

- A. empId, depId** **Page 133**
B. depId, empId
C. depId, empName
D. empName, depId

Question No:287 **(Marks:1)** **Vu-Topper RM**

The _____ model is independent of any tool or data model.

- A. Network
B. Relational
C. Hierarchal

D. Entity Relationship **Page 122**

Question No:288 **(Marks:1)** **Vu-Topper RM**

In ABC textile factory, there are two types of employees, one which are fixed salary employees and the others are hourly paid employees. But the rule is, an employee can be either an hourly paid employee or salaried employee, he can not be placed in both the categories in parallel. It is the example ----- constraint.

- A. Disjointness rule**
B. Total completeness
C. Referential integrity
D. Partial completeness

Question No:289 **(Marks:1)** **Vu-Topper RM**

In Relational Data model, a record or an entity instance is represented as _____ in a relation.

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A. Row **Google**

B. Value

C. Column

D. Attribute

Visit My YouTube Channel
For Subjective and More
Important Files
Channel Name = #VuTopperRM

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