

# CS304-OOP MIDTERM TERM MCQS Prepared by: JUNAID MALIK

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1. 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
2. The conceptual database design can be transformed into any \_\_\_\_\_.
  - a. **Data model**
  - b. Database design
  - c. E-R model
  - d. Entity set
3. Which is the second stage in the database development process?
  - a. Database design
  - b. Preliminary Study
  - c. Physical Design
  - d. **Requirement Analysis**
4. Functional dependencies under interference rule reflexivity are called \_\_\_\_\_ dependencies.
  - a. Augmentation
  - b. Transitivity
  - c. Projectivity
  - d. **Trivial**
5. 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
6. Which of the following constraints enforces entity integrity?
  - a. **PRIMARY KEY**
  - b. FOREIGN KEY
  - c. CHECK
  - d. NOT NULL

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7. Unary operations involves

- a. **Only one relation**
- b. Only two relations
- c. More than two relations
- d. Not more than five relations

8. 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

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

- a. ERD
- b. Conceptual Database Design
- c. **Logical Database Design**
- d. DFA

10. Which of the following is drawback of standardization?

- a. Difficult to understand
- b. Uniformity
- c. **Lack of uniqueness**
- d. Easy to develop applications

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

- a. **Unary**
- b. Ternary
- c. Primary
- d. Secondary

12. 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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13. **DFD** does not provide us a way to represent \_\_\_\_\_
- Entities
  - Decisions** AL-JUNAID INSTITUTE OF GROUP
  - Date stores
  - Processes
14. A \_\_\_\_\_ is used to maintain a connection between the users of the database system.
- Virtual server
  - File server**
  - Client server
  - FTP server
15. Which of the following is an advantage of using the Traditional File Organization?
- Time consuming
  - Data security
  - Simplicity**
  - Efficiency
16. Which of the following is the input to Analysis Phase?
- DFD**
  - Logical database design
  - Physical database design
  - Data model
17. Name and \_\_\_\_\_ are part of the definitions of an attribute.
- Domain
  - Symbol
  - Property
  - Entity instance
18. Which of the following most certainly implies the need for an entire table to implement?
- A ternary relationship**
  - A recursive relationship
  - An identify relationship
  - A binary relationship
19. Core of the Database Architecture is \_\_\_\_\_

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- a. Internal level  
b. External level  
c. Conceptual level  
d. ANSI SPARK
20. \_\_\_\_\_ is same as equi-join with a slight difference.  
a. Natural join  
b. Semi join  
c. Outer join  
d. Theta join
21. Conceptual database design is implemented using a \_\_\_\_\_.  
a. Hierarchical data model  
b. Semantic data model AL-JUNAID INSTITUTE OF GROUP  
c. Relational data model  
d. Network data model
22. 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
23. 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
24. Each \_\_\_\_\_ of a table contains atomic/single value.  
a. Cell  
b. Row  
c. Column  
d. Record
25. A relation is said to be in BCNF when  
a. It has overlapping composite keys

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- b. It has no composite keys
  - c. It has no multivalued dependencies
  - d. **It has no overlapping composite keys which have related attributes**
26. 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**
27. 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**
28. 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** AL-JUNAID INSTITUTE OF GROUP
29. \_\_\_\_\_ is an example of metadata
- a. Ali
  - b. Address
  - c. Person
  - d. **Student**
30. 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

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31. There are \_\_\_\_\_ basic properties of the database relations.
- Four
  - Three
  - Six**
  - Two
32. How many types of dependencies are?
- One
  - Two
  - Three**
  - Four
33. In \_\_\_\_\_ join, only selected rows of a relation are made cross product with second relation.
- Normal
  - Theta**
  - Outer
  - Semi
34. Which of the following is not a key?
- Super key
  - Alternate key
  - Integrity constraint key**
  - Primary key
35. A collection of concepts that can be used to describe the structure of a database
- Database
  - DBMS
  - Data model**
  - Data
36. Any combination of attributes with super key is \_\_\_\_\_
- Primary key
  - Foreign key
  - Super key**
  - Candidate key
37. Binary relationships are those, which are established between

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- a. One entity type
  - b. Two entity type**
  - c. Three entity type
  - d. Unlimited entities
38. \_\_\_\_\_ are called participants, when enrolled in a relationship.
- a. Attributes
  - b. Relations
  - c. Entities**
  - d. Keys
39. 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
40. Collection of raw facts is called \_\_\_\_\_.
- a. Information
  - b. Object
  - c. Output
  - d. Data**
41. A software package designed to store and manage database
- a. Database
  - b. DBMS**
  - c. Data model
  - d. Data
42. In \_\_\_\_\_ join common attributes appear twice in the output with selected rows.
- a. Normal join
  - b. Semi join
  - c. Natural join
  - d. Equi join**
43. Within a table, each primary key value \_\_\_\_\_.
- a. Is a minimal super key
  - b. Is always the first field in each table

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- c. Must be numeric  
d. Must be unique
44. \_\_\_\_\_ is not an operation of relational algebra.  
a. Addition AL-JUNAID INSTITUTE OF GROUP  
b. Union  
c. Cartesian product  
d. Set difference
45. Candidate keys which are not selected as primary key are called \_\_\_\_\_.  
a. Secondary keys  
b. Foreign keys  
c. Alternate keys  
d. Composite keys
46. 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
47. 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.  $Q + P$
48. Which of the following is not the component of Relational Data Model?  
a. Integrity Constraint  
b. Manipulation Language  
c. Relation / Table  
d. Domain Constraint
49. The attribute that is calculated from other attribute is called \_\_\_\_\_.  
a. Derived attribute  
b. Multi-valued attribute

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- c. Composite attribute
  - d. Simple attribute
50. 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**
51. Which of the following constraint is included in the definition of the table?
- a. Default value
  - b. Foreign key
  - c. Null**
  - d. Domain
52. The database deals with large amount of data. This property is called
- a. Database design
  - b. Scalability**
  - c. Concurrency
  - d. Robustness
53. 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**
54. Theta join is denoted mathematically as \_\_\_\_\_.
- a.  $R \times S$
  - b.  $R \times$
  - c.  $R \times \emptyset S$**
  - d.  $R \times R S$

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55. In cross reference matrix transitions are specified on \_\_\_\_\_ and database objects are specified on \_\_\_\_\_.
- Y axis, X axis
  - X axis, Y axis
  - X axis, X axis
  - Y axis, Y axis
56. Each component of DBMS performs \_\_\_\_\_ functions.
- Similar
  - Different
  - Identical
  - Computational
57. Which of the following data model is not record based?
- Hierarchical Data Model
  - Network Data model
  - Semantic Data model
  - Relational Data model
58. The basic purpose of diamond in ER diagram is to show the \_\_\_\_\_.
- Attributes
  - Relationships
  - Composite attribute
  - Entity set
59. Which of the following tool is used to design conceptual database design?
- SQL
  - MS Access
  - Oracle
  - This model is independent of any tool
60. In “one to many” cardinality one instance of a relation is mapped with \_\_\_\_\_.
- Many instances of second entity type
  - One instance of second entity type
  - Primary key of second relation
  - Foreign key of second relation

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61. Cross reference matrix is developed at the \_\_\_\_\_ stage of the database.
- a. Analysis
  - b. Designing**
  - c. Implementation
  - d. Application
62. 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
63. User rights information is stored in
- a. Physical database
  - b. Catalog**
  - c. Logical database
  - d. Buffer
64. Logical data independency provides independency to change \_\_\_\_\_ model.
- a. External
  - b. Logical
  - c. Conceptual**
  - d. Internal
65. In natural join the common attribute in the output table appears \_\_\_\_\_.
- a. Twice
  - b. Three times
  - c. Four times
  - d. Once**
66. Which levels are mostly used for detailed DFD?
- a. Level-0, Level-1**
  - b. Level-1, Level-2
  - c. Level-2, Level-3

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- d. Level-3, Level-4
67. By default, a non-key attribute in a relation can have \_\_\_\_\_ value.
- a. Binary
  - b. Null**
  - c. Character
  - d. Integer
68. 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
69. 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
70. If an entity is linked with itself, than it is called \_\_\_\_\_ relationship.
- a. Binary
  - b. Ternary
  - c. Nary
  - d. Recursive**
71. Duplication of data in controlled redundancy is controlled and \_\_\_\_\_.
- a. Deliberate**
  - b. Necessary
  - c. Precise
  - d. Unintentional
72. Teleprocessing is a sub-type of \_\_\_\_\_.
- a. Single user database
  - b. Multi-user database**

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- c. File server
  - d. Client server
73. In an ERD, the focus is on the \_\_\_\_\_ and the relationships between them.
- a. Attributes
  - b. Entities**
  - c. Keys
  - d. Indexes
74. The most widely used conceptual model is the \_\_\_\_\_ model.
- a. Implementation
  - b. ER**
  - c. Object oriented
  - d. Internal
75. 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
76. 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
77. A description on a particular collection of data using the given data model.
- a. Database**
  - b. Relation
  - c. Schema**
  - d. None
78. 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.

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- 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.
79. 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 it of uniform size  
d. Allow addition of data
80. 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
81. 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
82. The database management system (DBMS) is used to  
a. Store the data  
b. Access the data  
c. Manage its users  
d. All of above
83. In cross reference matrix attributes are mention on \_\_\_\_\_ and reports are mention on \_\_\_\_\_.  
e. Y axis, X axis  
f. Y axis, Z axis  
g. X axis, Y axis  
h. X axis, Z axis
84. A table can be logically connected to another table by defining a \_\_\_\_\_.

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- a. Hyper link
  - b. Common attribute
  - c. Primary key**
  - d. Super key
85. Data Redundancy means
- a. Security of data
  - b. Duplication of data**
  - c. Management of data
  - d. Recovery of data
86. Which of the following is a type of dependency?
- a. DBMS
  - b. ERD
  - c. DFD
  - d. Referential**
87. 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
88. \_\_\_\_\_ is the first comprehensive complete database design.
- a. Logical database design
  - b. Relational database design
  - c. Conceptual database design**
  - d. Hierarchical database design
89. 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**
90. The attributes whose value is not stored in a database is known as \_\_\_\_\_ attribute.

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- a. Stored
  - b. Single value
  - c. Multi value
  - d. Derived**
91. Logical database design, like conceptual database design is our \_\_\_\_\_
- a. Data model
  - b. Weak entity set
  - c. Strong entity set
  - d. Database design**
92. 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
93. The conceptual database design is drawn through \_\_\_\_\_.
- a. Data model
  - b. ER model**
  - c. Database design
  - d. Entity set
94. 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
95. Database is a computerized representation of any organization’s flow of \_\_\_\_\_ and storage of \_\_\_\_\_.
- a. Data, information
  - b. Details, data

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- c. Data, details
  - d. Information, data**
96. In which stage of the database development process logical design is created?
- a. Requirement analysis
  - b. Database design
  - c. Physical design
  - d. Implementation**
97. Which of the following is NOT an entity?
- a. Employee
  - b. Hobby
  - c. Student
  - d. Playground**
98. 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
99. 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
100. Free standing data dictionary is created by
- a. DFD
  - b. Database
  - c. CASE tools**
  - d. Cross reference matrix
101. A patient can be an outdoor or indoor. Analyze this statement and tell what type of

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constraint will be applied on patient?

- a) Total completeness
  - b) Partial completeness
  - c) Total disjoint
  - d) Partial disjoint
102. 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
103. 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
104. Database relation is also represented in a two dimensional structure called \_\_\_\_\_
- a) Row
  - b) Table
  - c) Entity
  - d) Column
105. Data about data is metadata
- a) True
  - b) False
106. 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

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107. Each table must have a \_\_\_\_\_ key.
- a) Primary
  - b) Secondary
  - c) Logical
  - d) Foreign
108. 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
109.  $A \rightarrow BC$  and  $A \rightarrow B$ , then  $A \rightarrow C$  follow \_\_\_\_\_ inference rule.
- a) Augmentation
  - b) Transitivity
  - c) Projectivity
  - d) Additivity
110. 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
111. 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
112. 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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113. Which of the following clarify the semantics of a relationship?
- a) Entity
  - b) Roles**
  - c) Relationship set
  - d) Participants
114. How many types of cardinality is specified about relationship?
- a) Two
  - b) One
  - c) Three
  - d) Four**
115. Which of the following is NOT a component of a DFD?
- a) Dataflow
  - b) Datastore
  - c) External entities
  - d) Relationship between external entities**
116. 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
117. 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**
118. 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

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119. 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
120. 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
121. Relational data model is widely accepted due to its mathematically proven foundation and its \_\_\_\_\_
- a) Complexity
  - b) Simplicity**
  - c) Hierarchical structure
  - d) Traditional structure
122. 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
123. 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**

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124. 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
125. 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
126. Atomicity is a feature of \_\_\_\_\_.
- a) 1NF**
  - b) 2NF
  - c) 3NF
  - d) BCNF
127. The \_\_\_\_\_ can see entire information structure of the database.
- a) BA**
  - b) DBTG
  - c) Database user
  - d) External viewer
128. The attribute whose value is not stored in a database is known as \_\_\_\_\_ attribute.
- a) Stored
  - b) Single value
  - c) Multi value
  - d) Derived**

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129. \_\_\_\_\_ 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**

130. 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

131. 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

132. The maximum PL/SQL size of data type "VARCHAR2" in DBMS is \_\_\_\_\_ bytes

- a) 42767
- b) 52767
- c) 32767**
- d) 28767

133. \_\_\_\_\_ 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

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134. The maximum PL/SQL size of data type “BLOB” in DBMS is \_\_\_\_\_
- a) 4 gigabytes
  - b) 8 gigabytes
  - c) 10 gigabytes
  - d) 12 gigabytes
135. \_\_\_\_\_ 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
136. 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
137. 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)
  - d) Defined by the database designer
138. “select” and “project” are the examples of \_\_\_\_\_
- a) Unary operation
  - b) Binary operation
  - c) Ternary operation
  - d) Nary operation
139. External scheme evolves as user needs are \_\_\_\_\_ over the time.
- a) Ends

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- b) Modified
  - c) Switch**
  - d) Stable
140. 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**
141. 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**
  - d) Used to represent the relationships among the external entities
142. \_\_\_\_\_ 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**
143. 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
144. Which of the following concepts is applicable with respect to 3NF?
- a) Full functional dependency
  - b) Any kind of dependency
  - c) Transitive dependency**

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- d) Partial functional dependency
145. 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
146. 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
147. 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
148. The entity relationship diagram is used to graphically represent the \_\_\_\_\_ database model.
- a) Condensed
  - b) Physical
  - c) Logical
  - d) **Conceptual**
149. The \_\_\_\_\_ determines that the link between two entities is optional or mandatory.
- a) Maximum cardinality
  - b) **Minimum cardinality**
  - c) Maximum degree
  - d) Minimum degree

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150. 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





## CS403-Database

(Solved MCQ's)

LECTURE FROM  
(23 to 45)



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**ALL answers are verified if found any mistake then Correct ACCORDINGLY**

- Truncate is an alternative of Delete command.
  - True
  - False
- The most recently accessed data from the disk (as well as adjacent sectors) is stored in a \_\_\_\_\_.
  - Memory buffer
  - EPROM
  - ROM
  - Hard disk
- Browser Based & Non-Browser/Simple are two different types of \_\_\_\_\_.
  - Forms
  - Language
  - Interface
  - Programs
- Which of the following is incorrect about alter table statement?
  - Cannot be used to modify type or size of an existing column
  - Can be used to delete a column
  - Cannot be used to create a new table
  - Can be used to add column in the existing table
- What does the abbreviation DBMS stand for?
  - Database management software
  - Data borrowing and movement software
  - Digital base mapping system
  - Database management system
- Suppose we have two tables T1 and T2, Tuples of T1 that do not match some row in T2 will not appear in \_\_\_\_\_.
  - Outer join
  - Inner join
  - Both I and II
  - None of the above
- Value of a function in SQL is always determined by the input parameters.
  - True
  - False

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8. Which of the following is true about creating database in MS Access?
- First we will run MS Access and select New option from the file. Next it will ask the name of database.
  - After running MS Access, create database option is selected directly
  - Go to the tool option of MS Access and select create Database option with suitable name
  - Click on the file menu, select database option and then click it
9. In SQL queries, while creating tables or relations in database, key columns may be specified by
- Null
  - Not Null
  - Data Type
  - None of the above
10. In SQL, which command is used to modify the rows of tables. a.
- UPDATE
- INSERT
  - BROWSE
  - APPEND
11. Which of the following is one of the purposes of using DDL commands?
- Inserting records into databases
  - Updating records into databases
  - Manipulating databases
  - Creating and destroying databases
12. The \_\_\_\_\_ should be user friendly. Data integrity must be ensured and checks can be applied within the tables.
- Input forms
  - Computer language
  - Application programming
  - Database
13. A memory cache, sometimes called a cache store or \_\_\_\_\_.
- ROM
  - DROM
  - RAM
  - Hard disk
14. According to his/her level of knowledge/understanding, how many types of users are there \_\_\_\_\_?
- Three
  - Four
  - Six
  - Two

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15. DML does not used to:
- Add new rows to tables
  - Retrieve rows from table
  - Modify the rows of tablesd.
  - Alter a table definition
16. Which of the following prevents duplicate values to be displayed as a result of an SQL statement?
- DISTINCT
  - DELETE
  - UPDATE
  - ALTER
17. GRANT belongs to which type of SQL commands classification
- DML
  - DDLc.
  - DCL
  - DQL
18. \_\_\_\_\_ user interface is preferred over \_\_\_\_\_ user interface with respect to user.
- Easy to understand, efficient
  - Hard to understand, efficientc.
  - Easy to understand, effective
  - Hard to understand, effective
19. Which of the following is not true regarding clustering?
- It increases the efficiency since related records are placed close to each other
  - Clustering makes records, difficult to access
  - Suitable to relatively static situations
  - It is a process, which means to place records from different tables to place in adjacent physical locations
20. The \_\_\_\_\_ condition allows to retrieve values within a specific range.
- AND
  - LIKE
  - BETWEEN
  - FROM
21. WORM Stands for \_\_\_\_\_.
- Write on. Read memoryb.
  - Write-once, read-many
  - Write only memory
  - Read only memory

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22. Identify the language which is used to specify database schema.
- DCL
  - DMLc.
  - DDL
  - None of the above
23. At which design level de-normalization will take place.
- Conceptual design
  - Logical design c.
  - Physical design
  - All of the above
24. The \_\_\_\_\_ keyword is used in SELECT statement to return different values.
- LIKE
  - IN
  - DISTINCT
  - WHERE
25. "It should be user friendly and user must not search for required buttons or text boxes" this statement is about \_\_\_\_\_.
- Application program b.
  - User friendly interface
  - Language
  - System program
26. Which of the flowing clauses allows to sort the records in result set?
- Where
  - Order By
  - From
  - Having
27. Data manipulation language (DML) is the set of commands used to maintain and query a database including updating, inserting, modifying and retrieving data.
- True
  - False
28. The \_\_\_\_\_ function helps reduce the need to use multiple OR conditions.
- Likeb.
  - IN
  - AND
  - BETWEEN
29. Correct statement for creating table in Microsoft SQL server is:a.
- CREATE TABLE Customer  
(SID integer PRIMARY KEY,  
Last\_Name varchar(30),
  - CREATE TABLE Customer(SID

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integer,  
Last\_Name varchar(30),

- c. CREATE Customer (SID  
integer, Last\_Name  
varchar(30),
  - d. All of the above
30. Which of the following is not DML command?
- a. Select
  - b. Update
  - c. Delete
  - d. **Truncate**
31. In SQL, which command is used to delete rows from table.
- a. **DELETE**
  - b. REMOVE
  - c. TRUNCATE
  - d. Both I and II
32. Users know what to do and how to do it are called \_\_\_\_\_
- a. Beginners
  - b. Intermediate
  - c. **Experts**
  - d. New
33. There are \_\_\_\_\_ types of user interfaces.
- a. Three
  - b. **Two**
  - c. Four
  - d. One
34. DML stands for \_\_\_\_\_.
- a. Dynamic Modeling Language
  - b. **Data Manipulation Language**
  - c. Data Management Language
  - d. Domain Modeling Language
35. Columns used to uniquely identify individual rows of a given table, may be specified to be NOT NULL.
- a. **True**
  - b. False
36. Which of the following syntax of the functions in SQL is used to add column values?
- a. COUNT(\*)
  - b. COUNT(expression)
  - c. MAX(expression)
  - d. **SUM(expression)**

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37. SQL is used for:
- a. Creating, managing and deleting tables and manage the relationships among the stored data.
  - b. Generating queries, organizing, managing and retrieving data stored in a database.
  - c. Maintaining data integrity and coordinate data sharing.

d. All of the above

38. Which of the following function falls in the category of Aggregate functions.

- a. SUM
- b. MIN
- c. MAX

d. All of the above

39. REVOKE is a \_\_\_\_\_ statement.

a. Data Definition

b. Control Access

c. Data manipulation

d. Data description

40. SQL stands for \_\_\_\_\_.

I - Structured Query Language II – Standard Query Language III- Status Query Language.

ONLY I

b. ONLY II

c. BOTH I AND II

d. ONLY III

41. What happens if the WHERE clause is omitted from a DELETE statement? a.

All records from the table are deleted

b. No record from the table will be deleted

c. First record of the table will be deleted

d. The statement will not be executed and will give a syntax error

42. General reasoning for horizontal or vertical partitioning is.

a. Increasing the consistency

b. Decreasing the query response time

c. Smaller tables are more efficient to process as compared to the larger tables.

d. All of the above

43. We should not compromise \_\_\_\_\_ over efficiency.

a. Consistency

b. Normalization

c. Query response time

d. All of the above

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44. Which language is used to permit or prohibit access to a table?
- a. DCL
  - b. **DDL**
  - c. DML
  - d. All of the above.
45. Which of the following is a correct way of selecting all the columns from a table called PERSONS?
- a. SELECT FROM \* Persons
  - b. **SELECT \* FROM Persons**
  - c. SELECT \* WHERE Persons
  - d. SELECT WHERE \* Persons
46. Which of the following is used to retrieve and insert information from database?
- a. **DML**
  - b. DDL
  - c. DCL
  - d. Both DML and DDL
47. Which of the following statements creates a database named IMDB.
- a. **CREATE DATABASE IMDB;**
  - b. CREATE DB IMDB;
  - c. ADD DATABASE named IMDB;
  - d. CREATE IMDB DATABASE;
48. Which of the following is not a part of an INSERT statement?
- a. INTO
  - b. VALUE
  - c. INSERT
  - d. **Modify**
49. Objective of an order by clause is to display or arrange output of a select statement in a particular order.
- a. **True**
  - b. False
50. Consider a table named "emp" having fields Empname, EmpID, Age, salary. Which of the following is true if the following SQL statement tries to execute?
- ```
SELECT *  
FROM emp  
WHERE Empname='ALI'  
ORDERBY Age;
```
- a. The statement displays the entire fields from emp in which the Empname is ALI in ascending order of their age
  - b. **The statement has a syntax error**
  - c. The statement displays the entire fields from emp in which the Empname is ALI in any order
  - d. The statement displays the entire fields from emp in which the Empname is ALI in

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descending order of their age

51. Truncate command responses time is \_\_\_\_\_ as compared to delete command.

- a. Poor
- b. Samec.
- Better**
- d. Worst

52. Functions in SQL return a single valuea.

- True**
- b. False

53. Is the given SQL Statement prompt error?

Select \* from relation1;

- a. Logical Errorb.
- No Error**
- c. Parameter Error
- d. Time out Error

54. Which of the following SQL statements used to control access to the data and to the database

- a. GRANT
- b. REVOKE
- c. **Both GRANT and REVOKE**
- d. SELECT

55. \_\_\_\_\_ types of caching are commonly used in personal computers:

- a. Two**
- b. Three
- c. Four
- d. Five

56. Which of the following is the correct syntax for adding a new column into an existing table.

- a. ALTER TABLE table\_name { ALTER [COLUMN] column type [(size)] [DEFAULT default] }
- b. ALTER TABLE table\_name { ADD [COLUMN] column type [(size)] [DEFAULT default] }
- c. **Both I and II.**
- d. None of the above.

57. GRANT is a \_\_\_\_\_ command.

- a. DDL
- b. DMLc.
- DCL**
- d. None of the above

58. Consider the two relations,

Supplier (S\_no, S\_name, Contact\_No, Address) and

Supply (S\_no, Item\_no).

Which of the following statements give(s) a list of supplier names supplying the item with

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Item\_no '555'?

- a. **SELECT S\_name FROM Supplier WHERE Item\_no='555'**
  - b. SELECT S\_name FROM Supplier, Supply WHERE Supplier.S\_no=Supply.S\_no AND Item\_no='555'
  - c. SELECT S\_name FROM Supplier WHERE S\_no EXISTS (SELECT S\_no FROM Supply WHERE Item\_no='555')
  - d. SELECT S\_name FROM Supplier WHERE S\_name EXISTS (SELECT S\_name FROM Supply WHERE Item\_no='555')
59. Which of the following is NOT a DDL command?
- a. Create DB
  - b. Create table **c.**
  - Delete**
  - d. Drop
60. Which of the following is not an aggregate function
- a. AVG
  - b. SUM
  - c. **UPPER**
  - d. MAX
61. Identify the basic part(s) of a SELECT statement?
- a. SELECT
  - b. FROM
  - c. **Both SELECT and FROM**
  - d. DISTINCT
62. The \_\_\_\_\_ operator allows to use wild cards in the where clause of an SQL statement.
- a. IN
  - b. FROM **c.**
  - LIKE**
  - d. None of the above.
63. Update command belong to which type of classification. **a.**
- DML**
  - b. DDL
  - c. DCL
  - d. DQL
64. When the power is turned off content of \_\_\_\_\_ is lost.
- a. Non volatile storage **b.**
  - Volatile storage**
  - c. Permanent storage
  - d. Hard disk storage
65. Which of the following is used with INSERT command to insert values in a DB table?
- a. ONTO **b.**
  - INTO**

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- c. UPTO
  - d. WITH
66. Which of the following is used to filter rows according to some condition(s)?
- a. SELECT
  - b. FROM **c.**  
**WHERE**
  - d. UPDATE
67. Which of the following is the string function in SQL
- a. COUNT**b.**  
**LEN**
  - c. SQRT
  - d. SIN
68. Cache is a portion of memory made of high speed \_\_\_\_\_ instead of the slower and cheaper \_\_\_\_\_ used for man memory.
- a. RAM,ROM
  - b. ROM,RAM
  - c. PROM,EPROM
  - d. **Static RAM(SRAM),DRAM**
69. Program written to perform different requirement created by the users / Organization are called \_\_\_\_\_.
- a. System program
  - b. Chip Program
  - c. **Application Program**
  - d. Low level program
70. The general activities, which are performed during the development of \_\_\_\_\_ Editing, Display, Processing related activities and Report.
- a. **Application program**
  - b. Hardware Program
  - c. Micro Kemal program
  - d. Database program
71. Text base & Graphical User Interface (GUI) most commonly called as Forms are two different type of \_\_\_\_\_
- a. Application Program
  - b. System program
  - c. **User interface**
  - d. Language
72. Forms are used in application program, home many type o forms are available \_\_\_\_\_?
- a. Four
  - b. Five
  - c. One

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d. **Two**

73. An effective user interface minimizes the \_\_\_\_ users requires to learn and implement the system.

a. Space

**b. Time**

c. Complexity

d. Efficiency

74. In vertical partitioning if we divide a table into two vertical partitions then efficiency of those applications will be reduced which is used to:

a. Access data from both the vertical partitions

b. Access data from first vertical partition

**c. Access data from second vertical partition**

d. None of the above

75. Consider a table named "emp" having fields Empname, EmpID, Age, salary.

Which of the following is true if the following SQL statement tries to execute?

```
SELECT *
```

```
FROM emp
```

```
WHERE Empname='ALI';
```

a. The statement has a syntax error

b. The statement only displays the EmpID of those employees whose name is ALI c.

**The statement displays the entire fields from emp in which the Empname is ALI**

d. The statement must have an ORDERBY clause

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

▶ User accessible catalog

▶ Data processing

▶ Authorization service

▶ **Recovery service (Page 47)**

77. Which of the following statements is true about the views?

▶ view is always a complete set of all the tables in a database

▶ View can not be used for retrieving data

▶ **The results of using a view are not permanently stored in the database** Google

▶ Rows can not be updated or deleted in the view

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Which of the following is true about myn kia krun ?

- ▶ Can be Rolled back.
- ▶ Activates Triggers.
- ▶ is DML Command.
- ▶ **Resets identity of the table.** Google

78. Which of the following is the correct way to find out the size of cartesian product incase of CROSS JOIN?

- ▶ the number of columns in the first table multiplied by the number of columns in the second table.
- ▶ the number of columns in the first table multiplied by the number of rows in the second table.
- ▶ the number of rows in the first table multiplied by the number of columns in the first table.
- ▶ **the number of rows in the first table multiplied by the number of rows in the second table.** Google

79. Suppose there are 8 rows and 4 columns in TABLE1 and 3 rows and 4 columns in TABLE2; what is the size of the cartesian product incase of CROSS JOIN between these two tables?

- ▶ **24** Google
- ▶ 32
- ▶ 12
- ▶ 16

Which of the following is not one of the properties of Transaction?

- ▶ atomicity
- ▶ consistency
- ▶ **redundancy (Page 294)**
- ▶ durability

80. Which of the following is INCORRECT about VIEWS?

- ▶ **It is not possible to left out the data which is not required for a specific view. (Page 280)**
- ▶ A database view displays one or more database records on the same page.
- ▶ Views can be used as security mechanisms
- ▶ Views are generally used to focus the perception each user has of the database.

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81. Each course section is assigned a particular faculty member, and each course section corresponds to a particular course. Conceptually, what is the relationship between faculty and course (not course section).

- ▶ 1:1
- ▶ 1:M
- ▶ **M:M** Conceptual
- ▶ Ternary

82. Which of the following is used to add or drop columns in an existing table?

- ▶ **ALTER (Page 207)**
- ▶ HAVING
- ▶ SELECT
- ▶ THEN

83. Which of the following is a correct way of selecting all the columns from a table called PERSONS?

- ▶ SELECT FROM \* Persons
- ▶ **SELECT \* FROM Persons (Page 216)**
- ▶ SELECT \* WHERE Persons
- ▶ SELECT WHERE \* Persons

84. Which of the following is NOT a feature of Indexed sequential files?

- ▶ Records are stored in sequence and index is maintained.
- ▶ Dense and nondense types of indexes are maintained.
- ▶ **Track overflows and file overflow areas can not be ensured. (Page 264)**
- ▶ Cylinder index increases the efficiency

85. Consider the given relations Student and Instructor as given below. Please note that FName and Lname also denote the First Name and Last Name respectively. Which of the following statements is correct with respect to the two relations given above?

- ▶ **The two relations are not union-compatible since their attribute names differ. (Page 152)**
- ▶ The two relations are union-compatible since they have the same type of tuples.

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- ▶ The set operations such as CARTESIAN PRODUCT and DIVISION can be applied on these two relations.
- ▶ To find out the students who are not instructors, it is necessary to perform the operation Student  $\div$  Instructor.

86. Which of the following serves as a milestone or reference point in the log file?

- ▶ Constraints
- ▶ Relations
- ▶ Check points (Page 304)

87. Which of the following are the general activities, which are performed during the development of application programs?

- ▶ Data input programs
- ▶ Editing
- ▶ Display
- ▶ All of given (Page 238)

88. Browser based forms are developed in the following tools EXCEPT

- ▶ HTML
- ▶ Scripting language
- ▶ Front Page
- ▶ Web-based Forms (Page 241)

89. Which of the following is not a form of optical disk?

- ▶ CD ROM
- ▶ WORM
- ▶ Erasable Optical
- ▶ EEPROM (Page 257)

90. In which of the following situations, Clustering is suitable:

- ▶ Frequently updating

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▶ Relatively static (Page 192)

▶ Relatively deletion

▶ Relatively dynamic

91. Only one type of constraint can be enforced in any table by CREATE command

▶ True

▶ False (Page 205)

Which of the following is disadvantage of chaining technique to handle the collisions?

▶ Unlimited Number of elements

▶ Fast re-hashing

▶ Overhead of multiple linked lists (Page 269)

▶ Maximum number of elements must be known

92. Consider the following relation R and its sample data. (Consider that these are the only tuples for the given relation) Which of the following statements is NOT correct?

▶ The functional dependency ProjNo  $\rightarrow$  DeptNo holds over R.

▶ The functional dependency (EmpNo, ProjNo)  $\rightarrow$  DeptNo holds over R. conceptual

▶ The functional dependency DeptNo  $\rightarrow$  ProjNo holds over R.

▶ The functional dependency EmpNo  $\rightarrow$  DeptNo holds over R

93. An entity type is

▶ defined when the database is actually constructed

▶ a specific type such as an integer, text, date, logical etc

▶ a coherent set of similar objects that we want to store data on (e.g. STUDENT, COURSE, CAR) Google

▶ defined by the database designer

94. An entity can be logically connected to another by defining a\_\_\_\_\_.

▶ hyperlink

▶ common attribute Page no 145

▶ primary key

▶ superkey

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95. You can't modify more than one table at a time through a view.

- ▶ True Google
- ▶ False

96. Which of the following is one of the purposes of using DML commands?

- ▶ Creating databases
- ▶ Destroying databases
- ▶ Inserting data in tables (Page 208)
- ▶ Non of the above

97. What is the alternate name of Data Dictionary?

- ▶ Index
- ▶ Metadata
- ▶ Data
- ▶ System Catalog Google

98. IN function helps reduce the need to use multiple AND conditions.

- ▶ True
- ▶ false conceptual

99. Which of the following is not true about De-normalization?

- ▶ It is the process of attempting to optimize the performance of a database
- ▶ De-normalization is a technique to move from lower to higher normal forms of database modeling (Page 187)
- ▶ It enhances the performance of DB
- ▶ In de-normalization it is required to add redundant data

100. Which of the following gives all the fields from employee table named as EMP?

- ▶ SELECT \* from EMP; (Page 216)
- ▶ SELECT emp\* from EMP'

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▶ SELECT emp\_id where EMP;

▶ SELECT \* where EMP;

101. Which of the following types of partitioning reduces the chances of unbalanced partitions?

▶ Vertical

▶ List

▶ Hash (Page 189)

▶ Range

102. While recovering data, which of the following files does a recovery manager examines at first?

▶ A system file

▶ Log file (Page 303)

▶ Data dictionary

▶ Metadata

103. ALTER TABLE exams RENAME COLUMN Q\_description TO Question\_Descp, Std\_ID to Student\_ID. Syntax of ALTER TABLE is NOT correct.

▶ True

▶ False conceptual

104. Which of the following is the correct description of cache hit?

▶ When data is found in the cache (Page 256)

▶ When data is removed in the cache

▶ The number of times the cache is accessed directly by the processor

▶ When data is lost from the cache

105. Which of the following is NOT a component of a DFD? Select correct option:

▶ Dataflow

▶ Datastore

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▶ External entities

▶ Relationship between external entities (Page 57)

106. Laser records data by burning microscopic holes in the surface of the disk with a

▶ Hard disk

▶ RAM

▶ Optical disk (Page 257)

▶ Floppy disk

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

▶ Full functional dependency

▶ Any kind of dependency

▶ Transitive dependency (Page 180)

▶ Partial functional dependency

108. Which of the following is NOT a feature of a good interface?

▶ Consistency

▶ Process based

▶ Data structure based (Page 243)

▶ User friendly

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

▶ Physical data independence.

▶ Concurrency control

▶ Logical data independence Conceptual

▶ Functional dependency

110. GRANT SELECT, UPDATE(Designation) ON Employee TO Amali,Hiruni WITH GRANT OPTION; What does this SQL statement do?

▶ Grant permission to Amali,only to retrieve data from Employee table and grant permission to Hiruni, only to update the designation from Employee table.

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- ▶ Grant permission to Hiruni in order to grant, select and update permission to Amali.
- ▶ Grant permission to Amali & Hiruni to update designation of employees in the Employee table
- ▶ Grant permission to Amali and Hiruni to update all data except designation in Employee table Click here for detail

111. Which key word is available in SQL to enforce referential integrity?

- ▶ Check
- ▶ Primary Key (Page 134)
- ▶ Set Default
- ▶ Unique

112. How many clustered index(es) do each database table have?

- ▶ 2
- ▶ 3
- ▶ 5
- ▶ 1 (Page 275)

113. Which of the following is true about DELETE command?

- ▶ is DDL Command.
- ▶ Resets identity of the table
- ▶ cannot activate a trigger
- ▶ Can be Rolled back Google

114. Which of the following is not a feature of TRANSACTION?

- ▶ Users should be able to regard the execution of each transaction as atomic.
- ▶ Each transaction, run by itself.
- ▶ must preserve the consistency of the database
- ▶ dependant on other concurrent transactions (Page 294)

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115. Suppose there are 4 fields in a table named CUST (customer\_id, first\_name, last\_name, phone). Which of the following gives all the information of the customers in the table whose last name is ALI?

- ▶ **SELECT \* FROM CUST WHERE last\_name='ALI'; (Page 216)**
- ▶ SELECT \* FROM CUST WHERE last\_name=ALI;
- ▶ SELECT \* FROM CUSTOMER WHERE name=ALI;
- ▶ SELECT \* FROM CUSTOMER WHERE last\_name=ALI;

116. Which of the following is not true with respect to denormalization ?

- ▶ A denormalized data model is not the same as a data model that has not been normalized
- ▶ **Denormalization takes place before the normalization process** Google
- ▶ It is an attempt to optimize the performance of database
- ▶ Denormalization process can not be initiated before the Database design

117. Which of the following is incorrect with respect to indexed sequential files?

- ▶ New records are added to an overflow file
- ▶ Record in main file that precedes it is updated to contain a pointer to the new record
- ▶ The overflow is merged with the main file during a batch update
- ▶ **Multiple indexes for the same key field cannot be setup (Page 264)**

118. DML commands are used for:

- ▶ **inserting data into databases (Page 208)**
- ▶ creating databases
- ▶ destroying databases
- ▶ creating DB objects

119. Which of the following is INCORRECT with respect to file systems?

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▶ At the physical level, pointer or hashed address scheme may be employed to provide a certain degree of data independence at the user level.

▶ **A logical record is concerned with efficient storage of information in the secondary storage devices.**

Google

▶ Some physical organisations use pointers to record blocks to locate records on disk.

▶ The efficiency of a file system depends on how efficiently operations such as retrieve, insert, update, delete may be performed on the information stored in the file.

120. Which of the following is correct regarding Dataflow diagram?

▶ Single DFD is required to represent a system

▶ The dataflow must be bidirectional

▶ **Created at increasing levels of detail** Google

121. Select the correct statement among the following on proper naming of schema constructs:

▶ Entity type name applies to all the entities belonging to that entity type and therefore a plural name is selected for entity type.

▶ **In the narrative description of the database requirements, verbs tend to indicate the names of relationship types.** Google

▶ The nouns arising from a database requirement description can be considered as names of attributes.

▶ Additional nouns which are appearing in the narrative description of the database requirements represent the weak entity type names.

122. Structural constraints of a relationship type refer to

▶ identifying the owner entity type relevant to a given entity type

▶ **whether the existence of an entity depends on it being related to another entity via the relationship type.**

▶ the role that a participating entity from the entity type plays in each relationship instance.

▶ the constraints applicable in granting access to tables, columns and views in a database schema.

123. Identify the correct statement.

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- ▶ Entity integrity constraints specify that primary key values can be composite. Google
- ▶ Entity integrity constraints are specified on individual relations.
- ▶ Entity integrity constraints are specified between weak entities.
- ▶ When entity integrity rules are enforced, a tuple in one relation that refers to another relation must refer to an existing tuple.

124. Which of the following is not true regarding Indexes?

- ▶ Index can be defined even when there is no data in the table
- ▶ It support Range selections
- ▶ It can be created using 'Create Index' statement
- ▶ It can not be created on composite attributes (Page 273)

125. The main memory of a computer system is also known as

- ▶ ROM
- ▶ RAM (Page 256)
- ▶ PROM
- ▶ Hard disk

126. \_\_\_\_\_ records data by burning microscopic holes in the surface of the disk with a laser.

- ▶ Hard disk
- ▶ RAM
- ▶ Optical disk (Page 257) rep
- ▶ Floppy disk

127. Which of the following is true regarding Index?

- ▶ Index can only be created for a single table in database
- ▶ Index can maximum be created for two tables in database
- ▶ Index should be created for every table in the database
- ▶ Index can be created for every table in the database Google

128. Which of the following will be deleted relating to a table if you use TRUNCATE command?

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▶ all rows in a table (Page 207) rep

▶ indexes

▶ table structure and its columns

▶ constraints

129. Which of the following is not true about relational tables?

▶ Column values are of the same kind.

▶ Each row is unique.

▶ Each column must have a unique name.

▶ The sequence of rows is significant. Google

130. What is the maximum limit of keys in context with Indexed sequential files?

▶ 7

▶ 255 (Page 236)

▶ 1

▶ 235

131. Which of the given techniques is/are used to improve query performance in database?

▶ Good File organization

▶ Indexing Page no 193

▶ Both Indexing and Good File organization

▶ Select only one record per query

132. \_\_\_\_\_ is a control that users click to perform an action, set or toggle a state, or set an option.

▶ Button Click here for detail

▶ Text box

▶ Input form

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- ▶ **Report** Google

133. \_\_\_\_\_ is a control that enables users to select one option from an associated list; users can also type an option.

- ▶ **Combo box** Google

- ▶ Button
- ▶ Text box
- ▶ Static area

134. Partitions may become unbalanced in:

- ▶ **Range partitioning (Page 189)**
- ▶ Hash partitioning
- ▶ List partitioning
- ▶ Vertical partitioning

135. ALTER TABLE exams ALTER COLUMN Q\_description varchar(50) Syntax of ALTER TABLE is NOT correct.

- ▶ True
- ▶ **False (Page 207)**

136. In which of the following, Materialized Views are suitable

- ▶ Data warehousing
- ▶ Decision support
- ▶ Mobile computing
- ▶ **All of the Given (Page 290)**

137. A software package designed to store and manage databases

- ▶ Database
- ▶ **DBMS (Page 18)**
- ▶ Data model

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▶ Data

138. A superkey that does not contain a subset of attributes that is itself a superkey is called a \_\_\_\_.

▶ candidate key (Page 82)

▶ primary key

▶ superkey

▶ secondary key

139. A \_\_\_\_ relationship exists when an association is maintained within a single entity.

▶ unary (Page 144)

▶ ternary

▶ binary

▶ weak

140. Which of the following is NOT one of the ways of resolving deadlocks?

▶ Undoing all the updates made by the particular transaction which is the cause of deadlock.

▶ A message is passed to the victim and depending on the system the transaction may or may not be started again automatically.

▶ Picking a list of all previously completed transactions and undoing all the updates. (Page 323)

▶ Rollback 'victim' transaction and restart it. 22

141. Which of the following statements are Data Definition Language command?

▶ INSERT

▶ UPDATE

▶ GRANT Google

▶ TRUNCATE

142. How many clustered index(es) do each database table have?

▶ 2

▶ 3

▶ 5

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▶ 1 (Page 275) rep

143. Suppose there are 4 rows and 3 columns in TABLE1 and 6 rows and 5 columns in TABLE2; what is the size of the Cartesian product in case of CROSS JOIN between these two tables?

▶ 24 Click here for detail rep

▶ 20

▶ 18

▶ 15

144. Consider the relation Interview(CandidateNo, InterviewDate, InterviewTime, StaffNo, RoomNo) and the following functional dependencies. FD1 : CandidateNo, InterviewDate -> InterviewTime, StaffNo, RoomNo FD2 : RoomNo, InterviewDate, InterviewTime -> StaffNo, CandidateNo FD3 : StaffNo, InterviewDate -> RoomNo Which of the following is correct?

▶ The relation Interview is in 3NF Google

▶ The relation Interview is in BCNF.

▶ The FD3 violates 3NF.

▶ The FD2 violates 2NF.

145. Which of the following is one of the purposes of using DDL commands?

▶ inserting records into databases

▶ updating records into databases

▶ manipulating databases

▶ creating and destroying databases (Page 196)

146. Which of the following statements creates a database named COMPANY.

▶ CREATE DATABASE company Google

▶ CREATE DB company

▶ ADD DATABASE company

▶ CREATE company DATABASE25

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147. What is the impact of setting multiple indexes for the same key, in index sequential files?

- ▶ Multiple indexes for the same key can not be set
- ▶ It increases efficiency (Page 263) rep
- ▶ It decreases efficiency
- ▶ It will increase complexity as the access time will be increased

148. Consider a transaction which includes following operations  $Z = Z + 10$  Write Z ... Suppose that the value of Z after addition and the execution of this operation is 17. Now against the write operation the entry made in the log file will be What does Z reflects in the above entry?

- ▶ Object being updated (Page 302)
- ▶ Identity of the transaction
- ▶ Object value
- ▶ Identity of the next transaction to be executed

149. Which of the following is not true regarding DB transactions?

- ▶ A set of database operations that are processed partly (Page 291) rep
- ▶ A database transaction is a logical unit of database operations
- ▶ A database transaction must be atomic
- ▶ A database transaction must contains the ACID property

150. Which of the following is not true about input forms?

- ▶ Provide an easy, effective, efficient way to enter data into a table
- ▶ Especially useful when the person entering the data is not familiar with the inner workings
- ▶ Provide different controls to add data into the tables
- ▶ One input forms can populate one table at a time (Page 246)

151. Which of the following is an example of volatile memory?

- ▶ RAM Google

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- ▶ ROM
- ▶ Flash memory
- ▶ CPU26

152. Which of following is NOT generally the aim of data partitioning and placement of data?

- ▶ Reduce Workload
- ▶ Balance Workload
- ▶ Merging different relations (Page 189)
- ▶ Speed up rate of useful works.

153. Which of the following is Advantage of Re-Hashing technique to handle the collisions?

- ▶ Collisions don't use primary table space
- ▶ Unlimited number of elements
- ▶ Fast access through use of main table space (Page269 )
- ▶ Overhead of multiple linked lists

154. Materialized views and Indexes are NOT similar by the following way(s).

- ▶ They consume storage space
- ▶ They must be refreshed when the data in their master tables changes.
- ▶ They can be accessed directly using a SELECT statement (Page 291)
- ▶ All of the Given

155. Select 'NORTH', CUSTOMER From CUST\_DTLS Where REGION = 'N' Order By CUSTOMER  
Union Select 'EAST', CUSTOMER From CUST\_DTLS Where REGION = 'E' Order By CUSTOMER  
The above statement:

- ▶ Has an error - the string should be in double quotes.
- ▶ Has an error - ORDER BY clause. Google
- ▶ Does not have an error.
- ▶ Has an error - the string in single quotes 'NORTH' and 'SOUTH'.27

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156. A software package designed to store and manage databases

- ▶ Database
- ▶ **DBMS (Page 18)**
- ▶ Data model
- ▶ Data

157. Who is responsible for authorizing access to the database, for coordinating and monitoring its use ?

- ▶ Database Designers
- ▶ **Database Administrators (Page 26)**
- ▶ End Users
- ▶ Application Programmers

158. A super key that does not contain a subset of attributes that is itself a super key is called a \_\_\_\_.

- ▶ **candidate key (Page 82)**
- ▶ primary key
- ▶ superkey
- ▶ secondary key

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

- ▶ strong
- ▶ **weak** Google
- ▶ business
- ▶ relationship

160. Which of the following SQL keywords is not used with DDL statements?

- ▶ Table
- ▶ **Update** Google
- ▶ Create

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▶ Alter 28

161. Identify the constraint that limits the values that can be placed in a column.

▶ NOT NULL

▶ **CHECK** Google

▶ FOREIGN KEY

▶ UNIQUE

162. Suppose there are 8 rows and 4 columns in TABLE1 and 3 rows and 4 columns in TABLE2; what is the size of the cartesian product in case of CROSS JOIN between these two tables?

▶ **24** Google

▶ 32

▶ 12

▶ 16

163. Suppose there are 4 fields in a table named WORKER (Id, first\_name, last\_name, joining\_year). Which of the following gives all the information of the workers who have joined after 1965?

▶ **SELECT \* FROM WORKER WHERE joining\_Year>1965;** Google

▶ SELECT \* FROM WORKER WHERE joining\_Year>'1965';

▶ SELECT \* FROM WORKER AND joining\_Year>'1965';

▶ SELECT \* WHERE joining\_Year>1965;

164. Which of the following enforces a relation into 1st normal form?

▶ **The domain of attribute must include only atomic values. (Page 167)**

▶ Every non-key attribute is fully functionally dependent on primary key

▶ non-key attribute is non-transitively dependent on primary key.

▶ Every non-key attribute is partially dependent on super key

165. Which of the following is NOT a feature of HASH ACCESS?

▶ **indexes to search or maintain (Page 266)**

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- ▶ Very fast direct access
- ▶ Inefficient sequential access
- ▶ Use when direct access is needed, but sequential access is not.

166. Which of the following is NOT a feature of a good interface?

- ▶ data structure based (Page 243) rep
- ▶ user friendly
- ▶ consistency
- ▶ process based<sup>29</sup>

167. Which of the following is true about application programs?

- ▶ develop before the database design
- ▶ Tools selection is made after the development database
- ▶ meant to perform different operations by the user (Page 238)
- ▶ must to design before the designing and developing database

168. A relation (from the relational database model) consists of a set of tuples, which implies that

- ▶ Relational model supports multi-valued attributes whose values can be represented in sets.
- ▶ for any two tuples, the values associated with all of their attributes may be the same.
- ▶ for any two tuples, the values associated with one or more of their attributes must differ. Google
- ▶ all tuples in a particular relation may have different attributes.<sup>30</sup>

169. The information regarding 'views' and 'Integrity constraints' are found in

- ▶ Both Data Dictionary and System Catalog
- ▶ System Catalog
- ▶ Data Dictionary

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▶ Indexes

170. Which of following is not the feature of Indexes?

- ▶ consume storage space.
- ▶ must be refreshed when the data in their master tables changes
- ▶ improve the performance of SQL execution when they are used for query rewrites
- ▶ can be accessed directly using a SELECT statement (Page 291)

171. Which of the following is not a type of user interface?

- ▶ Graphical User Interface (GUI)
- ▶ Forms
- ▶ DB tables (Page 240)
- ▶ Text based

172. In SQL queries, while creating tables or relations in database, key columns may be specified by

- ▶ Data type
- ▶ Null
- ▶ Not Null (Page 203)
- ▶ Owner

173. The \_\_\_\_ constraint specifies whether each entity supertype occurrence must also be a member of at least one subtype.

- ▶ specialization Google
- ▶ uniqueness
- ▶ inheritance
- ▶ completeness

174. In a conceptual model for a university, what type of relationship exists between Grade and Student entities?

- ▶ 1:1
- ▶ 1:M Google

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▶ M:M

▶ Ternary

175. \_\_\_\_\_ is a control that presents a set of choices from which a user can select one or more items; items can be text, graphics, or both.

▶ Text input

▶ Report

▶ Button

▶ List box Google

176. \_\_\_\_\_ is a control that enables users to select one option from an associated list; users can also

▶ Button

▶ Text box

▶ Static area

177. Which of the following should not be a property of a database transaction?

▶ Atomicity

▶ Isolation

▶ Durability

▶ Divergence ( page 291)

178. Which of the following is the correct way of removing the Index called branchNoIndex?

▶ DROP INDEX branchNoIndex; Google

▶ APPEND INDEX branchNoIndex;

▶ REMOVE INDEX branchNoIndex;

▶ DEL INDEX branchNoIndex;

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179. Consider the following diagram depicting a kind of a relationship type where X and Z are entities and Y is a relationship type: Select the correct statement among the following on the above diagram.

- ▶ The relationship type Y is of cardinality ratio 1 : N Google
- ▶ The diagram depicts existence dependencies.
- ▶ The participation of X in the Y relationship type is total.
- ▶ The participation of Z in the Y relationship type is partial.

180. Identify the correct statement about ANSI/SPARC architecture.

- ▶ The external level is not concerned with individual user perceptions
- ▶ The internal level, in a database system, will always be relational
- ▶ Any given database has exactly one conceptual schema and one physical schema, but it may have several external schemas.
- ▶ A data definition language is used to define the internal schema. Google

181. Which of the following SQL commands deletes a record of an employee with the employee\_id 12345, from a table named PERSON.

- ▶ DELETE FROM person WHERE employee\_id = '2345'
- ▶ DELETE WHERE person FROM employee\_id = 12345
- ▶ DROP FROM person WHERE employee\_id = 12345
- ▶ DELETE WHERE person WHERE employee\_id = 12345

Identify the correct statement with respect to normalization.

182. ▶ Normalization is a formal technique that can be used only at the starting phase of the database design.

- ▶ Normalization can be used as a top-down standalone database design technique.
- ▶ The process of normalization through decomposition must achieve the lossless join property at any cost whereas the dependency reservation property is sometimes sacrificed.

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- ▶ The process of normalization through decomposition must achieve the dependency reservation property at any cost whereas the lossless join property is sometimes sacrificed Google

183. Which of the following concept is applicable with respect to 2NF?

- ▶ Non-transitive dependency
- ▶ Full functional dependency (Page 167)
- ▶ Partial dependency
- ▶ Transitive dependency

184. Which of the following is INCORRECT about VIEWS?

- ▶ It is not possible to left out the data which is not required for a specific view. (Page 280)
- ▶ A database view displays one or more database records on the same page.
- ▶ Views can be used as security mechanisms
- ▶ Views are generally used to focus the perception each user.

185. Identify the advantage of DELETE command over TRUNCATE.

- ▶ Can be Rolled back. Google
- ▶ is DDL Command.
- ▶ cannot activate a trigger.
- ▶ faster and uses fewer system

186. Which of the following statements are Data Manipulation Language command?

- ▶ INSERT Google
- ▶ GRANT
- ▶ TRUNCATE
- ▶ CREAT

187. Which of the following is not a type of VIEWS?

- ▶ Materialized View

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- ▶ Simple Views
- ▶ Complex View
- ▶ Cross Reference View Google

188. A file with \_\_\_\_\_ records, with sequential access file, an average of \_\_\_\_\_ key comparisons are

necessary.

- ▶ 10000, 5500
- ▶ 10000, 5000 Conceptual
- ▶ 10000, 4500
- ▶ 10000, 500

189. A perfect hash function map a key to distinct location having search time \_\_\_\_\_.

- ▶ O(1) Page no 266
- ▶ O(n)
- ▶ O(n+1)
- ▶ O(n-1)

190. \_\_\_\_\_ is used to detect the dead lock.

- Wait-for graph Page no 320
- Cross Reference Matrix
- Inner Join
- Clustered Index

191. Wait-for graph is maintained by \_\_\_\_\_

- Lock manager Page no 320
- Index Manager
- View Manager
- Constraint Manager

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192. Which of the following serves as reference point in the log file?

- Constraints
- Relations
- Check points google
- Relationships

193. After execution of "commit" statement, \_\_\_\_\_ is updated first.

- Database Buffer Page no 303
- Clustered-Index
- Non-Clustered Index
- Application Program

194. To select the range while creating Indexes, the operator that is not used is \_\_\_\_\_.

- Equals to (==). google
- Less than (<)
- And (&&)
- Between

195. Which of the following constraints enforces Entity Integrity?

- PRIMARY KEY google
- FOREIGN KEY
- CHECK
- NOT NULL

196. The property of \_\_\_\_\_ enables an entity subtype to hold the properties of its super type.

- Null Constraint
- Integrity
- Inheritance google
- Uniqueness

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

- A binary relationship
- A ternary relationship google
- A recursive relationship
- An identifying relationship

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198. "A shared collection of logically related data" is known as

- Database Page no 10
- File Processing System
- Program and Data Interdependence
- DBMS

199. On magnetic media, data is stored in \_\_\_\_\_

- Text
- Images
- Binary format Google
- Tables

200. Which of the following is one of the purposes of using DDL commands?

- inserting records into databases
- updating records into databases
- manipulating databases
- creating and destroying databases google

201. \_\_\_\_\_ is used to create and destroy database and database objects

- ERD
- DCL
- DDL google
- DML

202. The \_\_\_\_\_ constraint specifies whether each entity super type occurrence must also be a member of at its one subtype.

- Total completeness Google
- Specialization
- Uniqueness
- Inheritance

203. Which of the following is a correct way to implement many-to-many cardinality in a binary relationship while designing tables?

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- Using a third table with the keys from both the tables forming the composite primary key of third Table. Google
- By splitting the data into five tables with primary key and foreign key relationships.
- By splitting the data into five tables with primary key and foreign key relationships.
- By creating three tables and linking them without PK (Primary Key) and FK (Foreign Key).

204. Which of the following is INCORRECT regarding De-normalization?

- It is the process of attempting optimization of Database.
- It is a technique to move from lower to higher normal forms of database modeling. Google
- In this process, it is required to add redundant data.
- It enhances the performance of DB.

205. Hash Partitioning is applied on\_\_\_\_\_.

- Rows
- Columns
- Algorithm Google
- Attributes

206. \_\_\_\_\_ is used to sort the result set in ascending or descending order

- Group by Clause
- From Clause
- Where Clause
- Order by Clause Page no 220

207. Which of the following SQL Function does not use input parameter?

- LOWER
- UPPER
- LEN
- CURRENT\_TIME Page no 221

208. "Select \* from STUDENT, DEPARTMENT" is an example of

- Cartesian Join Page 225
- Inner Join
- Outer Join
- Full Outer Join

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209. Which of the following is not a DDL Command?

- Create table
- Alter table
- **Insert into** Google
- Create database

210. Which of the following is the correct syntax for SELECT statement?

- **SELECT column\_name(s) FROM table\_name** Conceptual
- SELECT FROM table\_name column\_name(s)
- FROM SELECT column\_name(s) table\_name
- FROM table\_name SELECT column\_name(s)

211. Which of the following specifies the tables, which we access in the query?

- **SELECT Clause** page no 212
- FROM Clause
- WHERE Clause
- ORDER BY Clause

212. Procedure of finding the size of Cartesian Product is\_\_\_\_\_

- The number of columns in the first table multiplied by the number of rows in the second table.
- The number of rows in the first table multiplied by the number of columns in the first table.
- **The number of rows in the first table multiplied by the number of rows in the second table.**
- The number of columns in the first table multiplied by the number of columns in the second table

213. Which of the following is not a type of user interface?

- Graphical User Interface (GUI)
- Forms
- **Database Schema** page no 240
- Text based Interface

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214. Which of the following is incorrect regarding Indexes?

- It can not be created on composite attributes.
- Index can be defined even when there is no data in the table.
- It support Range selections.
- It can be created using 'Create Index' statement

215. Which of the following is NOT a part of Deadlock Resolution?

- Choose a victim
- A message is passed to the victim and depending on the system the transaction may or may not be started again automatically.
- Picking a list of all previously completed transactions and undoing all the updates. Page 323
- Rollback 'victim' transaction and restart it.

216. A Table can have \_\_\_\_\_ clustered index (es).

- Only one Google
- Only two
- More than two
- Only three

217. Which of the following is true about the views?

- View can only show few attributes of a table
- View can not be used for retrieving data
- View can not be used as security mechanisms
- We can customize the order of the table fields through Views Google

218. Which of the following Command creates a view named ST-LIST on STUDENT table to show all the columns?

- CREATE VIEW ST\_LIST AS SELECT \* FROM STUDENT page no 284
- SELECT \* FROM STUDENT VIEW ST\_LIST
- CREATE ST\_LIST VIEW AS STUDENT
- SELECT \* FROM STUDENT TO ST\_LIST

219. \_\_\_\_\_ must identify a record in the table, uniquely.

- Key Google
- SQL Statement
- Index

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- Hash Algorithm

220. \_\_\_\_\_ manages mass storage devices like hard disks and tape drive.

- Index
- **Operating System** Google
- RAID
- Sequential File Access

221. Which of the following is not the property of Transaction?

- Atomicity
- Consistency
- **Redundancy** page no 291
- Durability

222. While recovering data, which of the following files does a Recovery Manager examines at first?

- Clustered Index
- **Log file** Google
- Data dictionary
- Metadata

223. Which of the following serves as reference point in the log file?

- Constraints
- Relations
- **Check points** Google
- Relationships

224. occurs when multiple users want to update same object at the same time.

- Uncommitted Update Problem
- Inconsistent Analysis Problem
- Lost of Joins Problem
- **Lost Update Problem** page no308

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225. It is not necessary for any super type entity to have its entire instance set to be associated with any of the subtype entity, is called as\_\_\_\_\_.

- **Partial Completeness** page no 103
- Disjoint Overlap
- Complete Overlap
- Total Completeness

226.  $R \times \theta S$ , If R and S are relations and  $\theta$  is a\_\_\_\_\_.

- Table Name
- Attributes
- Primary Key
- **Condition** Google

227. If  $D \rightarrow E, F$  then  $D \rightarrow E$  and  $D \rightarrow F$ .

This inference rules is called as\_\_\_\_\_.

- Transitivity
- Additive
- **Projectivity** conceptual
- Augmentation

228. Which of the following constraints enforces Entity Integrity?

- **PRIMARY KEY** Google
- FOREIGN KEY
- CHECK
- NOT NULL

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

- A binary relationship
- **A ternary relationship** Google
- A recursive relationship
- An identifying relationship

230. "Database System" is the combination of\_\_\_\_\_.

- **Database and DBMS** Google
- Database and Data
- Data and Information
- Operating System and Database

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231. End User directly interact with \_\_\_\_\_

- **External Schema** page: 35
- Conceptual Schema
- Internal Schema
- Core of Database Architecture

232. \_\_\_\_\_ is also known as Community View of Database.

- External Schema
- **Conceptual Schema** Google
- User views
- Internal Schema

233. \_\_\_\_\_ contains data about all the Databases in DBMS.

- **Data Dictionary** Google
- Schema
- Cross Reference Matrix
- Conceptual Data Model

234. In which of the following situations, Clustering is suitable:

- Frequently updating
- **Relatively static** Google
- Frequently deletion
- Relatively dynamic

235. SQL is an \_\_\_\_\_ standard computer language

- **ANSI** Google
- General
- Cold fusion
- Interactive

236. Which of the following statements creates a database named COMPANY.

- **CREATE DATABASE COMPANY** Google
- CREATE DB company
- ADD DATABASE company
- CREATE company DATABASE

237. \_\_\_\_\_ is used to read, write, and remove the data from a database

- **SQL** Page 194
- ERD
- ANSI
- Data Model

238. Which of the following SQL keywords is not used with DDL statements?

- **Table** page no 234
- Update
- Create
- Create

239. Which of the following statements are DML commands?

- ALTER
- CREATE

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➤ INSERT

➤ GRANT google

240. The \_\_\_\_\_ constraint specifies whether each entity supertype occurrence must also be a member of at its one subtype.

➤ Total completeness google

➤ Specialization

➤ Uniqueness

➤ Inheritance

241. Which of the following commands is used to drop the table named STUDENT?

➤ DROP TABLE STUDENT Page no 208

➤ TABLE STUDENT DROP

➤ TABLE DROP STUDENT

➤ STUDENT TABLE DROP

242. If a relation contains single Key, the relation is automatically in \_\_\_\_\_.

➤ 1NF

➤ 2NF google

➤ 3NF

➤ 4NF

243. Which of the following is not a type of user interface?

➤ Graphical User Interface (GUI)

➤ Forms

➤ Database Schema google

➤ Text based Interface

244. Which of the following is not related with Browser based forms development?

➤ HTML

➤ ASP

➤ Front Page

➤ Dev C Conceptual

245. Which of the following is the activity, which is not performed during the development of application

programs?

➤ Data input programs

➤ Editing

➤ Display

➤ Data Collection google

246. Which of the following is not correct about input forms?

➤ Provide an easy, effective, efficient way to enter data into a table

➤ Especially useful when the person entering the data is not familiar with the inner workings

➤ Provide different controls to add data into the tables

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➤ **One input forms can populate one table at a time Conceptual**

247. \_\_\_\_\_ is a control that users click to perform an action.

- Input form
- Report
- **Button google**
- Text box

248. \_\_\_\_\_ is disadvantage of chaining technique to handle the collisions.

- Unlimited Number of elements
- Fast re-hashing
- **Overhead of multiple linked lists google**
- Maximum number of elements must be known

249. What is the impact of setting multiple indexes for the same key?

- Multiple indexes for the same key can not be set
- **It increases efficiency google**
- It decreases efficiency
- It will increase complexity as the access time will be increased

250. Which of the following is NOT a part of Deadlock Resolution?

- Choose a victim
- A message is passed to the victim and depending on the system the transaction may or may not be started again automatically.
- **Picking a list of all previously completed transactions and undoing all the updates. google**
- Rollback 'victim' transaction and restart it.

251. Which of the following is true regarding Index?

- **Index can only be created for a single table in database page 262**
- Index can maximum be created for two tables in database
- Index can only be created, when a database has at least 3 tables
- Index can be created for every table in the database

252. Which of the following Command creates a view named ST-LIST on STUDENT table to show all the

columns?

- **CREATE VIEW ST\_LIST AS SELECT \* FROM STUDENT Conceptual**

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- SELECT \* FROM STUDENT VIEW ST\_LIST
- CREATE ST\_LIST VIEW AS STUDENT
- SELECT \* FROM STUDENT TO ST\_LIST

253. \_\_\_\_\_ must identify a record in the table, uniquely.

- Hash Algorithm
- Key page 260
- SQL Statement
- Index

254. \_\_\_\_\_ manages mass storage devices like hard disks and tape drive.

- Index
- Operating System google
- RAID
- Sequential File Access

255. Dead Lock can be prevented by giving each transaction a \_\_\_\_\_.

- Name
- Clustered Index
- Cartesian Join
- Priority Conceptual

256. Wait-for graph is maintained by \_\_\_\_\_

- Lock manager google
- Index Manager
- View Manager
- Constraint Manager

257. Which of the following serves as reference point in the log file?

- Constraints
- Relations
- Check points google
- Relationships

258. occurs when multiple users want to update same object at the same time.

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- Uncommitted Update Problem
- Inconsistent Analysis Problem
- Lost of Joins Problem
- **Lost Update Problem google**

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

- Attributes
- Relations
- **Entities google**
- Keys

260. Which of the following constraints enforces Entity Integrity?

- **PRIMARY KEY google**
- FOREIGN KEY
- CHECK
- NOT NULL

261A A \_\_\_\_\_ index determines the storage order of data in table

- a. Primary
- b. Clustered**
- c. Dense
- d. Secondary

262. Views are generally used to focus, simplify and customize the perceptions each user has of the \_\_\_\_\_

- a. **Database**
- b. Program
- c. Operating system
- d. View

263. \_\_\_\_\_ provides rapid, non-sequential, direct access to records a. **Hashing**

- b. Collisions handling
- c. Non hashing
- d. Sequential

264. \_\_\_\_\_ The log file is also called \_\_\_\_\_

- a. Non Transaction file
- b. Transaction file**
- c. Temporary file
- d. Hash file

265. \_\_\_\_\_ There are \_\_\_\_\_ ways to create a new view in your database

- a. Three
- b. Two**
- c. Five

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d. Six

266.

The

index which has some of the key value is classified as \_\_\_\_\_

a. Linear index

b. Dense index

c. Non dense index

d. Cluster index

267. Which of the following is not related to index sequential file structure

a. Records are stored in sequence and index in maintained

b. Dese and non dese type of indexes are maintained

c. Track overflow and file overflow areas are ensues

d. We chose a number of bucket to corresponds to the number of search keyvalues we will have stored in the data base



268. Which file organization is allowed by direct access storage device?
- Sequential only
  - Direct only
  - Indexed and direct only
  - Sequential indexed and direct
269. \_\_\_\_\_ generally are complex views , views of views, and view of multitable
- Dynamic views
  - Simple views
  - Materialized view
  - Generalized view
270. Inverted files or inversion , linked list B+ trees, there are the three implementation approaches of \_\_\_\_\_
- Sequential Access
  - Hashing
  - Non sequential
  - Indexes
271. \_\_\_\_\_ Following are the characteristics if \_\_\_\_\_
- 1) Non indexes to search or maintain
  - 2) Very fast direct access
  - 3) Inefficient sequential access
  - 4) Use when direct access is needed, but sequential access is not
- a. Index access
  - b. Sequential index
  - c. Hashed access
  - d. Non hashed access
272. Can be defined when even there is no data in the table , existing values are checked in execution of this command , it supports section of forms , these are the major properties of \_\_\_\_\_
- Sequential approach
  - Direct approach
  - view
  - indexes
273. The two basic types of record access methods are \_\_\_\_\_
- sequential and random

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- b. sequential and indexed
- c. direct and immediate
- d. sequential and immediate

