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

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

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8. Which of the following is true about creating database in MS Access?
    a. First we will run MS Access and select New option from the file. Next it will askthe name of database.
    b. After running MS Access, create database option is selected directly
    c. Go to the tool option of MS Access and select create Database option with suitable name
    d. 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
    a. Null
    b. Not Null
    c. Data Type
    d. None of the above
10. In SQl, which command is used to modify the rows of tables.a.
    UPDATE
    b. INSERT
    c. BROWSE
    d. APPEND
11. Which of the following is one of the purposes of using DDL commands?
    a. Inserting records into databases
    b. Updating records into databases
    c. Manipulating databases
    d. Creating and destroying databases
12. The_____should be user friendly. Data integrity must be ensured and checks can be applied within the tables.
    a. Input forms
    b. Computer language
    c. Application programming
    d. Database
13. A memory cache, sometimes called a cache store or_____.
    a. ROM
    b. DROMc.
    RAM
    d. Hard disk
14. According to his/her level of knowledge/understanding, how many types of users are there _____?

    a. Three
    b. Four
    c. Six d.
    Two

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15. DML does not used to:
    a. Add new rows to tables
    b. Retrieve rows from table
    c. 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?
    a. DISTINCT
    b. DELETE
    c. UPDATE
    d. ALTER
17. GRANT belongs to which type of SQL commands classification
    a. DML
    b. DDLc.
    DCL
    d. DQL
18. _____user interface is preferred over_____ user interface with respect to user.
    a. Easy to understand, efficient
    b. Hard to understand, efficientc.
    Easy to understand, effective
    d. Hard to understand, effective
19. Which of the following is not true regarding clustering?
    a. It increases the efficiency since related records are placed close to each other
    b. Clustering makes records, difficult to access
    c. Suitable to relatively static situations
    d. 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.
    a. AND
    b. LIKE
    c. BETWEEN
    d. FROM
21. WORM Stands for_____.
    a. Write on. Read memoryb.
    Write-once, read-many
    c. Write only memory
    d. Read only memory

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22. Identify the language which is used to specify database schema.
    a. DCL
    b. DMLc.
    DDL
    d. None of the above
23. At which design level de-normalization will take place.
    a. Conceptual design
    b. Logical design c.
    Physical design
    d. All of the above
24. The_____keyword is used in SELECT statement to return different values.
    a. LIKE
    b. IN
    c. DISTINCT
    d. WHERE
25. "It should be user friendly and user must not search for required buttons or text boxes" this statement is about_____.
    a. Application program b.
    User friendly interface
    c. Language
    d. System program
26. Which of the flowing clauses allows to sort the records in result set?
    a. Where
    b. Order By
    c. From
    d. 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.
    a. True
    b. False
28. The_____function helps reduce the need to use multiple OR conditions.
    a. Likeb.
    IN
    c. AND
    d. BETWEEN
29. Correct statement for creating table in Microsoft SQL server is:a.
    CREATE TABLE Customer
    (SID integer PRIMARY KEY,
    Last_Name varchar(30),
    b. 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. Intermediatec. Experts
    d. New

33. There are_____types of user interfaces.
    a. Threeb. Two
    c. Four
    d. One

34. DML stands for_____.
    a. Dynamic Modeling Languageb. 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 date.
    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 Definitionb.
    Control Access
    c. Data manipulation
    d. Data description
40. SQL stands for_____.
    I - Structured Query Language II – Standard Query Language lll- Status Query Languagea.
    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 * Personsb.
    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. INSERTd.
    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 ALIin 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 ALIin any order
    d. The statement displays the entire fields from emp in which the Empname is ALIin

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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

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_noAND 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 tablec.
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. FROMc.
LIKE
d. None of the above.

63. Update command belong to which type of classificationa.
DML
b. DDL
c. DCL
d. DQL

64. When the power is turned off content of_____is lost.
a. Non volatile storageb.
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. ONTOb.
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. COUNTb.
    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 arecalled_____.
    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 pplied on these two relations.
- To find out the students who are not instructors, it is necessary to perform the operation Student ÷ 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 -> DeptNo holds over R.
- The functional dependency (EmpNo, ProjNo) -> DeptNo holds over R. conceptual
- The functional dependency DeptNo -> ProjNo holds over R.
- The functional dependency EmpNo -> 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.

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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.

► 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 incase 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 copmany
- 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 coulmns in TABLE2; what is the size of the cartesian product incase 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 based29

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.30

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
- Algorthim 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 X θ S, If R and S are relations and θ is a_____.

- Table Name
- Attributes
- Primary Key
- Condition Google

227. If D --> E, F then D --> E and D --> 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

- 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 eachuser has of the _____

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

263. _____provides rapid, non-sequential , direct access to recordsa. 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

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268. Which file organization is allowed by direct access storage device?
a. Sequential only
b. Direct only
c. Indexed and direct only
d. Sequential indexed and direct

269. _____generally are complex views , views of views, and view of multipletable
a. Dynamic views
b. Simple views
c. Materialized view
d. Generalized view

270. Inverted files or inversion , linked list B+ trees, there are the threeimplementation approaches of ___
a. Sequential Access
b. Hashing
c. Non sequentiald. 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 in needed, but sequential access is not
a. Index access
b. Sequential indexc. 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 arethe major properties of _____
a. Sequential approach
b. Direct approach
c. view
d. indexes

273. The two basic types of record access methods are _____
a. sequential and random

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

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