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**Academic Year 2015-16**

**MCQs on Database Management System Using SQL**

**Sem. :- IV**

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Q.1 DBMS Stand for :

- A) Data base marginal system      B) Directory Based Memory Standard  
C) Data Base Management System    D) Dual Bus Mask Storage

**Ans: C**

Q.2 In the relational modes, cardinality is termed as:

- (A) Number of tuples.      (B) Number of attributes.  
(C) Number of tables.      (D) Number of constraints.

**Ans: A**

Q.3 Relational calculus is a

- (A) Procedural language.      (B) Non- Procedural language.  
(C) Data definition language. (D) High level language.

**Ans: B**

Q.4 The view of total database content is

- (A) Conceptual view.      (B) Internal view.  
(C) External view.      (D) Physical View.

**Ans: A**

Q.5 Cartesian product in relational algebra is

- (A) a Unary operator.      (B) a Binary operator.  
(C) a Ternary operator.      (D) not defined.

**Ans: B** Cartesian product in relational algebra is a binary operator.

(It requires two operands. e.g., P X Q)

Q.6 DML is provided for

- (A) Description of logical structure of database.  
(B) Addition of new structures in the database system.  
(C) Manipulation & processing of database.  
(D) Definition of physical structure of database system.

**Ans: C** DML is provided for manipulation & processing of database.

Q.7 'AS' clause is used in SQL for

- (A) Selection operation.      (B) Rename operation.  
(C) Join operation.            (D) Projection operation.

**Ans: B** 'AS' clause is used in SQL for rename operation.

Q.8 Architecture of the database can be viewed as

- (A) two levels.                (B) four levels.  
(C) three levels.            (D) one level.

**Ans: C**

Q.9 In a relational model, relations are termed as

- (A) Tuples.                    (B) Attributes  
(C) Tables.                    (D) Rows.

**Ans: C**

Q.10 The database schema is written in

- (A) HLL                        (B) DML  
(C) DDL                        (D) DCL

**Ans: C**

Q.11 In the architecture of a database system external level is the

- (A) physical level.      (B) logical level.  
(C) conceptual level    (D) view level.

**Ans: D**

Q.12 An entity set that does not have sufficient attributes to form a primary key is a

- (A) strong entity set.    (B) weak entity set.  
(C) simple entity set.    (D) primary entity set.

**Ans: B**

Q.13 In a Hierarchical model records are organized as

- (A) Graph.                    (B) List.  
(C) Links.                    (D) Tree.

**Ans: D**

Q.14 In an E-R diagram attributes are represented by

- (A) rectangle.                (B) square.  
(C) ellipse.                    (D) triangle.

**Ans: C**

Q.15 In case of entity integrity, the primary key may be

- (A) not Null                    (B) Null  
(C) both Null & not Null.    (D) any value.

**Ans: A**

Q.16 The language used in application programs to request data from the DBMS is referred to as the

- (A) DML
- (B) DDL
- (C) VDL
- (D) SDL

**Ans: A**

Q.17 A logical schema

- (A) is the entire database.
- (B) is a standard way of organizing information into accessible parts.
- (C) describes how data is actually stored on disk.
- (D) both (A) and (C)

**Ans: A**

Q.18 Related fields in a database are grouped to form a

- (A) data file.
- (B) data record.
- (C) menu.
- (D) bank.

**Ans: B** Related data fields in a database are grouped to form a data record.  
(A record is a collection of related fields)

Q.19 The database environment has all of the following components except:

- (A) users.
- (B) separate files.
- (C) database.
- (D) database administrator.

**Ans: A**

Q.20 The language which has recently become the defacto standard for interfacing application programs with relational database system is

- (A) Oracle.
- (B) SQL.
- (C) DBase.
- (D) 4GL.

**Ans: B**

Q.21 The way a particular application views the data from the database that the application uses is a

- (A) module.
- (B) relational model.
- (C) schema.
- (D) sub schema.

**Ans: D**

Q.22 In an E-R diagram an entity set is represent by a

- (A) rectangle.
- (B) ellipse.
- (C) diamond box.
- (D) circle.

**Ans: A**

Q.23 A report generator is used to

- (A) update files.
- (B) print files on paper.

(C) data entry. (D) delete files.

**Ans: B**

Q.24 The property / properties of a database is / are :

- (A) It is an integrated collection of logically related records.
- (B) It consolidates separate files into a common pool of data records.
- (C) Data stored in a database is independent of the application programs using it.
- (D) All of the above.

**Ans: D**

Q.25 The DBMS language component which can be embedded in a program is

- (A) The data definition language (DDL).
- (B) The data manipulation language (DML).
- (C) The database administrator (DBA).
- (D) A query language.

**Ans: B**

Q.26 A relational database developer refers to a record as

- (A) a criteria. (B) a relation.
- (C) a tuple. (D) an attribute.

**Ans: C**

Q.27 The relational model feature is that there

- (A) is no need for primary key data.
- (B) is much more data independence than some other database models.
- (C) are explicit relationships among records.
- (D) are tables with many dimensions.

**Ans: B**

Q.28 Conceptual design

- (A) is a documentation technique.
- (B) needs data volume and processing frequencies to determine the size of the database.
- (C) involves modelling independent of the DBMS.
- (D) is designing the relational model.

**Ans:C**

Q.23 The method in which records are physically stored in a specified order according to a key field in each record is

- (A) hash. (B) direct.
- (C) sequential. (D) all of the above.

**Ans: A** A method in which records are physically stored in a specified order according to a key field in each record is hash.

Q.30 A subschema expresses

- (A) the logical view. (B) the physical view.

(C) the external view. (D) all of the above.

**Ans: C** A subschema expresses the external view.  
(External schemas are called also called as subschemas)

Q.31 Count function in SQL returns the number of  
(A) values. (B) distinct values.  
(C) groups. (D) columns.

**Ans: A** Count function in SQL returns the number of values.

Q.32 It is possible to define a schema completely using  
(A) VDL and DDL. (B) DDL and DML.  
(C) SDL and DDL. (D) VDL and DML.

**Ans: B**

Q.33 The statement in SQL which allows to change the definition of a table is  
(A) Alter. (B) Update.  
(C) Create. (D) select.

**Ans: A**

Q.34 E-R model uses this symbol to represent weak entity set ?  
(A) Dotted rectangle.  
(B) Diamond  
(C) Doubly outlined rectangle  
(D) None of these

**Ans: C**

Q.35 SET concept is used in :  
(A) Network Model  
(B) Hierarchical Model  
(C) Relational Model  
(D) None of these

**Ans: A**

Q.36 Relational Algebra is  
(A) Data Definition Language .  
(B) Meta Language  
(C) Procedural query Language  
(D) None of the above

**Ans: C**

Q.37 The conceptual model is  
(A) dependent on hardware.  
(B) dependent on software.  
(C) dependent on both hardware and software .  
(D) independent of both hardware and software.

**Ans: D**

Q.38 What is a relationship called when it is maintained between two entities?

- (A) Unary
- (B) Binary
- (C) Ternary
- (D) Quaternary

**Ans: B**

Q.39 Which of the following operation is used if we are interested in only certain columns of a table?

- (A) PROJECTION
- (B) SELECTION
- (C) UNION
- (D) JOIN

**Ans: A**

Q.40 Which of the following operations need the participating relations to be union compatible?

- (A) UNION
- (B) INTERSECTION
- (C) DIFFERENCE
- (D) All of the above

**Ans: D**

Q.41 The full form of DDL is

- (A) Dynamic Data Language
- (B) Detailed Data Language
- (C) Data Definition Language
- (D) Data Derivation Language

**Ans: C**

Q.42 Which of the following is an advantage of view?

- (A) Data security
- (B) Derived columns
- (C) Hiding of complex queries
- (D) All of the above

**Ans: D**

Q.43 Which of the following is a legal expression in SQL?

- (A) SELECT NULL FROM EMPLOYEE;
- (B) SELECT NAME FROM EMPLOYEE;
- (C) SELECT NAME FROM EMPLOYEE WHERE SALARY = NULL;
- (D) None of the above

**Ans: B**

Q.44 A set of possible data values is called

- (A) attribute.
- (B) degree.
- (C) tuple.
- (D) domain.

**Ans: D**

Q.45 Which of the operations constitute a basic set of operations for manipulating relational data?

- (A) Predicate calculus
- (B) Relational calculus
- (C) Relational algebra
- (D) None of the above

**Ans: C**

Q.46 Which of the following is another name for weak entity?

- (A) Child (B) Owner  
(C) Dominant (D) All of the above

**Ans: A**

Q.47 Which of the following database object does not physically exist?

- (A) base table (B) index  
(C) view (D) none of the above

**Ans: C**

Q.48 Which of the following is record based logical model?

- (A) Network Model (B) Object oriented model  
(C) E-R Model (D) None of these

**Ans: A**

Q.49 The natural join is equal to :

- (A) Cartesian Product  
(B) Combination of Union and Cartesian product  
(C) Combination of selection and Cartesian product  
(D) Combination of projection and Cartesian product

**Ans: D**

Q.50 Which one of the following is not true for a view:

- (A) View is derived from other tables.  
(B) View is a virtual table.  
(C) A view definition is permanently stored as part of the database.  
(D) View never contains derived columns.

**Ans: C**

Q.51 A primary key if combined with a foreign key creates

- (A) Parent-Child relationship between the tables that connect them.  
(B) Many to many relationship between the tables that connect them.  
(C) Network model between the tables that connect them.  
(D) None of the above.

**Ans: A**

Q.52 In E-R Diagram relationship type is represented by

- (A) Ellipse (B) Dashed ellipse  
(C) Rectangle (D) Diamond

**Ans: D**

Q.53 Hierarchical model is also called

- (A) Tree structure (B) Plex Structure  
(C) Normalize Structure (D) Table Structure

**Ans: A**

Q.54 In E-R diagram generalization is represented by

- (A) Ellipse
- (C) Rectangle

- (B) Dashed ellipse
- (D) Triangle

**Ans: D**

Q.55 \_\_\_\_\_ is a virtual table that draws its data from the result of an SQL SELECT statement.

- (A) View
- (C) Sequence

- (B) Synonym
- (D) Transaction

**Ans: A**