

**Question No: 1 ( Marks: 1 ) - Please choose one**

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

- ▶ Table
- ▶ **Update** [Click here for detail](#)
- ▶ Create
- ▶ Alter

**Question No: 2 ( Marks: 1 ) - Please choose one**

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

- ▶ NOT NULL
- ▶ **CHECK** [Click here for detail](#)
- ▶ FOREIGN KEY
- ▶ UNIQUE

**Question No: 3 ( Marks: 1 ) - Please choose one**

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 rep**
- ▶ 32
- ▶ 12
- ▶ 16

**Question No: 4 ( Marks: 1 ) - Please choose one**

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

**Question No: 5 ( Marks: 1 ) - Please choose one**

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

**Question No: 6 ( Marks: 1 ) - Please choose one**

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

- ▶ indexes to search or maintain (Page 266)
- ▶ Very fast direct access
- ▶ Inefficient sequential access
- ▶ **Use when direct access is needed, but sequential access is not.**

**Question No: 7 ( Marks: 1 ) - Please choose one**

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

- ▶ data structure based (Page 243) rep
- ▶ user friendly
- ▶ consistency
- ▶ process based

**Question No: 8 ( Marks: 1 ) - Please choose one**

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

**Question No: 9 ( Marks: 1 ) - Please choose one**

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 263)**

**Question No: 10 ( Marks: 1 ) - Please choose one**

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) rep**

**Question No: 11 ( Marks: 1 ) - Please choose one**

Which of the following statements creates a database named COMPANY.

- ▶ **CREATE DATABASE company rep**
- ▶ CREATE DB company
- ▶ ADD DATABASE copmany
- ▶ CREATE company DATABASE

**Question No: 12 ( Marks: 1 ) - Please choose one**

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. [Click here for detail](#)**
- ▶ all tuples in a particular relation may have different attributes.

**Question No: 13 ( Marks: 1 ) - Please choose one**

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. [Click here for detail](#) rep**
- ▶ 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.

**Question No: 14 ( Marks: 1 ) - Please choose one**

*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. [Click here for detail](#) rep**
- ▶ 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.

**Question No: 15 ( Marks: 1 ) - Please choose one**

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

**Question No: 16 ( Marks: 1 ) - Please choose one**

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

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

**Question No: 17 ( Marks: 1 ) - Please choose one**

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)**

**Question No: 18 ( Marks: 1 ) - Please choose one**

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

**Question No: 19 ( Marks: 1 ) - Please choose one**

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) rep**

**Question No: 20 ( Marks: 1 ) - Please choose one**

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

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

**Question No: 21 ( Marks: 1 ) - Please choose one**

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) rep**

**Question No: 22 ( Marks: 1 ) - Please choose one**

Which of the following is an example of volatile memory?

- ▶ **RAM**
- ▶ ROM
- ▶ Flash memory
- ▶ CPU

**Question No: 23 ( Marks: 1 ) - Please choose one**

Partitions may become unbalanced in:

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

**Question No: 24 ( Marks: 1 ) - Please choose one**

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

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

**Question No: 25 ( Marks: 1 ) - Please choose one**

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) rep**
- ▶ Maximum number of elements must be known

**Question No: 26 ( Marks: 1 ) - Please choose one**

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 (Page 269) rep**
- ▶ Overhead of multiple linked lists

**Question No: 27 ( Marks: 1 ) - Please choose one**

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

**Question No: 28 ( Marks: 1 ) - Please choose one**

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

- ▶ **specialization** [Click here for detail](#)
- ▶ uniqueness
- ▶ inheritance
- ▶ completeness

**Question No: 29 ( Marks: 1 ) - Please choose one**

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

- ▶ 1:1
- ▶ **1:M** [Click here for detail](#)
- ▶ M:M
- ▶ Ternary

**Question No: 30 ( Marks: 1 ) - Please choose one**

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) rep**
- ▶ Rollback 'victim' transaction and restart it.