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(v) Data security: Data security refers to protection of data against accidental or intentional disclosure to unauthorized persons, or unauthorized modification or destruction.

(vi) Data integrity: Data integrity refers to maintaining and assuring the accuracy and consistency of data over its entire life cycle.

9. Name the different data models available for database system. Which of them is mostly preferred?

There are generally three data models available as following :

(i) Relational Model

(ii) Network Model

(iii) Hierarchical Model

Among all the above three level, relational level is the most preferred because it does not use pointers or links, instead, it relates records by the value they contain.

10. What are the similarities and differences between network and hierarchical data model?

The network model and hierarchical model are similar in the sense that data and relationships among data are represented by records and links respectively. The difference between these two is that in network model records are organized as collection of arbitrary graphs and in hierarchical model records are organized as collection of trees.

11. Define the following terms :

(a) Relation: A relation is a two-dimensional table. It contains number of rows(tuples) and columns(attributes).

(b) Tuple: This is the horizontal part of the relation. One row represents one record of the relation. The rows of a relation are also called tuples.

(c) Attribute: The columns of a table are also called attributes. The column is the vertical part of the relation.

(d) Domain: A domain is a pool of values from which the actual value present in a given column are taken.

(e) Primary key: It is a column (or columns) in a table that uniquely identifies each row. A primary key value is unique and cannot be null. There is only one primary key for a table.

(f) Candidate key: It is a column (or columns) that uniquely identify rows in a table. Any of the identified candidate keys can be used as the table's primary key.

(g) Cartesian product: The Cartesian product is a binary operation and is denoted by a cross(x). It yields a relation with all possible combinations of the tuples of the two relations operated upon.

(h) Degree: It is the number of columns (or attributes) in a table.

12. What do you mean by relational database?

A relational database is a collection of data items organized as a set of formally described tables from which data can be accessed easily.

13. What do you understand by unary relation, binary relation?

Unary relation: If a relation is between entities in a single entity type then it is called a *unary relation*. For example 'friendship' between entities within the entity type PERSON.

Binary relation: If a relation is between entities in one entity type and entities in another entity type then it is called a *binary relation* because two entity types are involved in the relationship type. For example is 'Purchased' between entity types CUSTOMER and PRODUCT.

14. What are views? How they are useful?

A view is a pseudo-table or virtual table. It displays the data. The data is derived from one or more base tables.

Syntax:

CREATE VIEW <view name> AS SELECT <attribute list> FROM <table(s)> WHERE <condition(s)>; The usefulness of views lies in the fact that they provide an excellent way to give people access to some but not all of the information in a table.

15. Define the following :

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