

Database Model

1. Explain table in database.

Ans1- A table in database is a collection of rows and columns. A table provides you a facility to store your data in horizontal and vertical manner. A vertical data is representing a column and a horizontal data is represent a row data.

2. Explain Database Management System Components.

Ans2- Following are the components of database management system.

1. **Tables-** Data is stored in tables in DBMS this is a collection of rows and columns, you can filter, store, retrieve and rewrite data into the tables.
2. **Field-** This is a section in a table which is an intersection of row and column, it stores information. Sometimes a column name is called as field.
3. **Record-** Data stored in a row is called a record.
4. **Queries-** These are used to extract or insert data into the table.
5. **Tuple-** This is a set of rows are called a tuple.

3. What is database model? How many types of database model are used in database?

Ans3- Database model- Database models are defined how the logical structure of a database is modeled. They define how data is connected to each other and how they are processed and stored inside the system. These are basic entities to introduce abstraction in a DBMS. Following are the types of Database model.

1. Record based model
 - ❖ Hierarchical model
 - ❖ Network model
 - ❖ Relational model
2. Object based model
 - ❖ E-R model

4. What is DBMS?

Ans4- A database management system is a software package which is responsible to perform- INSERT, DELETE, RETRIVE, UPDATE, DELETE, CREATE etc. operations which becomes easier to retrieve, manipulate, and produce information from database.

Ex-Oracle, IBM DB2, Microsoft SQL Server, Microsoft Access.