

Introduction of DBMS

1. What is database?

Ans1- A database is a collection of large amounts of data in organized manner. Database is like a container where you can store your information in different format like- image, pdf, jpg, text etc.

2. Name any five popular DBMS Software?

Ans2-

- Oracle
- Microsoft SQL Server,
- Microsoft Access,
- MySQL,
- SQLite

3. Explain work of the DBMS .

Ans3- Following are some major work of database management system.

1. **Data Redundancy-** It can reduced the possibility of redundancy.
2. **Sharing Of Data-** Data is controlled by administrator and administrator can share data with users.
3. **Data Consistency-** It can reduced the possibility to store same type of data again and again.
4. **Integration Of Data-** Data stored in tables and you can make relation with deferent tables.
5. **Data Security-** Data is control by administrator he will be decide which section of data to be share or which one is not.
6. **Recovery-** Data can be recover which machine interrupted.

4. What is database schema and instance?

Ans4- Database schema- A database schema is the skeleton structure that represents the logical view of the entire database. It defines how the data is organized and how the relations among them are associated. A database schema defines its entities and the relationship among them.

Database instance- The data stored in database at a particular moment of time is called instance of database. Database schema defines the variable declarations in tables that belong to a particular database; the value of these variables at a moment of time is called the instance of that database

5- How many ways data can be organized into the database.

Ans5-Data into the database can be organized into two ways:

1.**Flat File data base**:A flat file database stores data in a single table. Flat file databases are in plain-text form, where each line holds only one record. The fields in the record are separated using tabs and commands.

2.**Relational data base**:Relational database management system(RDBMS) is used to access relational database system, it stores interrelated Data in multiple tables. It is a large organization of data. MySQL and Oracle are the examples of such kind of software. Data is secure in relational database system.