- 1. Data is a collection of information gathered by observation, measurements, research/analysis. examples can be numbers, names, objects, images, texts...
- 2. Information is the processed form of data, it's a fact that is provided or learned about something or someone.
- 3.Database is a systematic collection of related data that represent some real world entities.
- 4.RDBMS is a software application that interacts with users, applications, even the database itself to capture and analyze data.

5.Uses of RDBMS

- can easily manage large amounts of information.
- security
- backups
- 6.Relational database/SQL store data in the form of a table. Non relational database/no SQL stores data in the form of a document.
- 7. Examples of relational database Oracle, MySQL, Microsoft SQL
- 8. Examples of non relational database Mongo database, couch database.
- 9.SQL is a relational database which is used for accessing and managing databases. We use it to define tables and structures.

10. DDL - Data Definition Language

- Used to change or modify the structure of a database.
- We can do things like deleting table, creating table,
- It auto commits the changes we make permanently.

DML - Data Manipulation Language

- It manipulates the stored data.
- It uses commands like insert, select, delete, update.
- It does not auto commit the changes we make.

DCL - Data Control Language

 It allows us to control access to the database; granting or revoking access to the database.

TCL - Transaction Control Language

- commands used to manage the changes made by DML.
 Eg: commit, savepoint, transaction, rollback.
- 11. Table is a basic element of relational databases. It stores data in tabular format and means the system organizes data in rows and columns.
- 12. Row is a series of data put horizontally in a table/spreadsheet, while column is a vertical series of cells in a table/spreadsheet.