

Database

What is DBMS?

Structuring(where redundancy can be avoided)/ **Organisation** / **Management** / **Storage** of data(raw info) so that it is easy to use information by multiple users.

Oracle DB Sever

Software availables for Databsae Management System

- RDBMS - Relational DBMS
 - Codd rules [12 rules]
 - DBMS with tables
 - Ex ⇒ Oracle, MySQL, PostgreSQL, IBMDB2, Microsoft SQL server, Microsoft Azure + 370 or more
 - NoSQL
 - Document Oriented [JSON]
 - Ex ⇒ MongoDB
 - White column store [key:value]
 - Ex ⇒ Apache Cassandra
 - Graph DB[Mesh nodes]
 - Ex ⇒ Arango DB,Dgraph.
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Hash map

key:[multiple values]

Multiple data can be accessed using a single key.

Ex ⇒ student PRN is key and student information is value[Name, Contact details, Address].

Live SQL website

[livesql](#)

SQL → Structured QUERY Language.

ANSII - template.[Standard like IEEE or POSIX]

- DDL - Data Defination Language
 - CREATE TABLE
 - ALTER
 - Add/ Remove/ Rename/ Modify datatype column
 - DROP TABLE

- RENAME TABLE
 - TRUNCATE TABLE
 - COMMENT
 - Table
 - Column
 - DML - Data Manipulation Language
 - INSERT
 - UPDATE
 - DELETE
 - MERGE
 - INSERT
 - UPDATE
 - DCL - Data Control Language
 - GRANT
 - REVOKE
 - DQL - Data Query Language
 - SELECT
 - TCL - Transaction Control Language
 - SAVE POINT
 - ROLL BACK
 - COMMIT
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