

Assessment 1 : 10 MAY 2025

1. Main Types of DB

- Relational
- NoSQL
- Cloud DBs
- non-relational DB

2. Relational Database Management System (RDBMS)

- A system that manages relational DBs w/ tables with structured schemas and SQL

3. Primary key & foreign key

- primary → Uniquely identifies a record in a table
- foreign → links records between tables using the Primary Key of another table.

4. Database Normalization

- The process of organizing data to reduce redundancy and improve integrity.

5. Database Schema

- The structure of a database

6. Data Mart vs. Data Warehouse

- Data mart → focuses on a ^{specific} business area
- Data Warehouse → stores structured, cleaned and processed data → central repository for integrated data from many sources

7. Data Lake

- Stores raw, unstructured and structured data.