SQL Basics

PRADNYA DABHADE

What is SQL

- SQL stands for Structured Query Language
- SQL lets you access and manipulate databases
- SQL lets you perform CRUD operations on databases
- C – Create
- R – Read
- U – Update
- D - Delete

What is a database example

School Data

Student Data
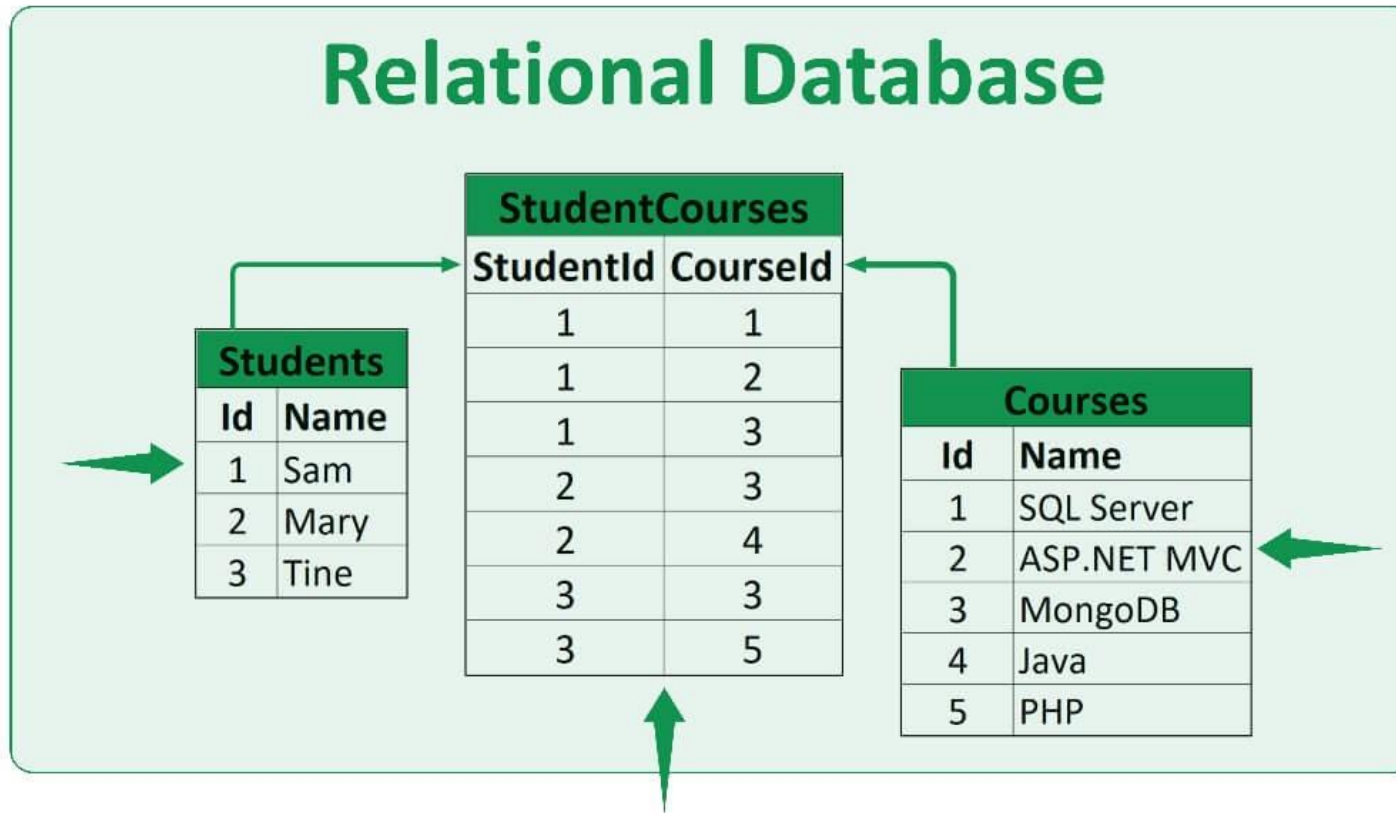Name
Daily attendance
contact

Student Marks
Math marks
English marks
….

DBMS – DataBase Management System
1. MySQL
2. PostgresSQL
3. SQL Lite (Python)

What is relational database (SQL Database)

Relational Database

StudentCourses	
StudentId	CourseId
1	1
1	2
1	3
2	3
2	4
3	3
3	5

Students	
Id	Name
1	Sam
2	Mary
3	Tine

Courses	
Id	Name
1	SQL Server
2	ASP.NET MVC
3	MongoDB
4	Java
5	PHP

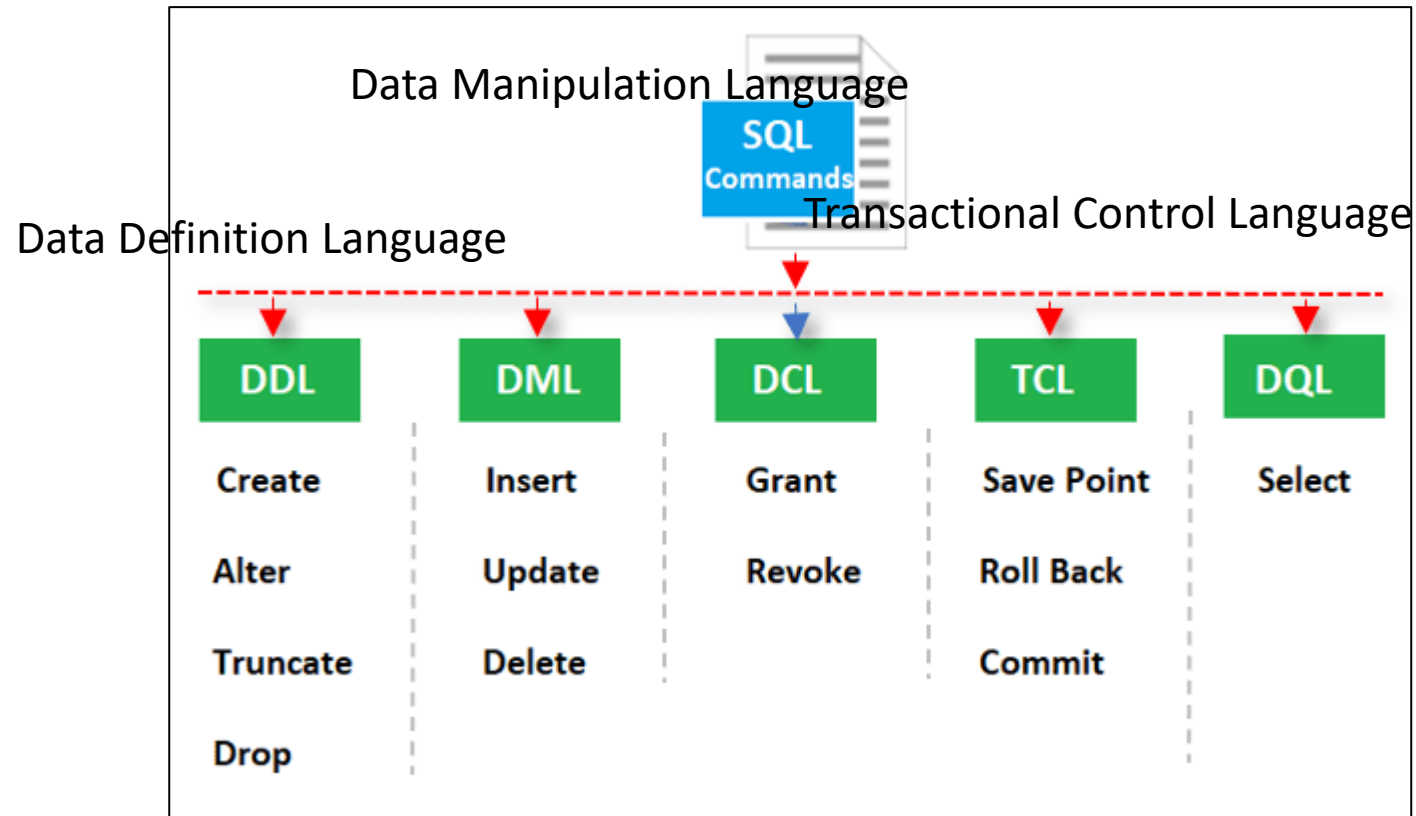noSQL (Non-Relational Database) : MongoDB
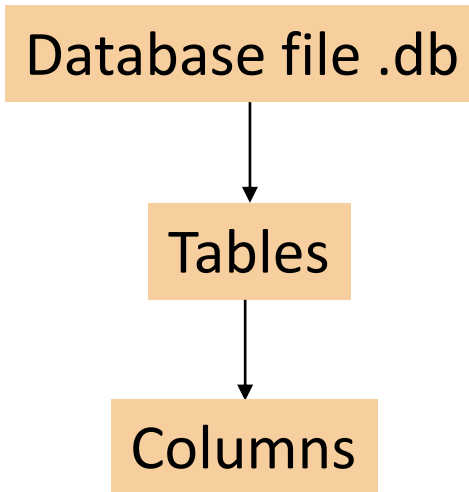
Database

Tables

Column and rows

DBMS Softwares

➢ DataBase Management System (DBMS)

➢ PostgreSQL

➢ MySQL

➢ SQLlite

Different types of SQL Queries

Structure of SQL Databases

Database file .db

Tables

Columns

Why to use SQL instead of excel

1. SQL Capable of Handling Data upto 16 TB
2. SQL has effective collaboration
3. SQL is faster than excel
4. SQL is more secure compared to excel

UserID	name	age	email	mob
1	Utkarsh	28	utkarsh.etlhive@gmail.com	12312412
	Raman			1241254
4	Aditi	16	test@test.com	12312412
4	Karan	22	test2@test.com	1242143125

Thank You

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