

Database

↳ Collection of data

Type of Database

SQL

Commands

① Relational Database

↳ data is stored in the
form of rows &
columns.

✓
MySQL, SQL Server,

PostgreSQL &

many more (Structured data)

② NoSQL Database

{
↳ JSON files {key : value}
→ Document
↳ Graph

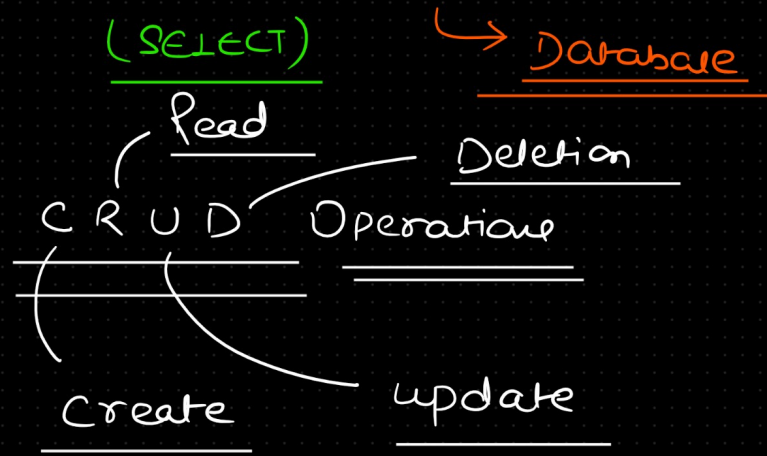
MongoDB, Cassandra, HBase

MySQL Workbench → Practical

Task → MySQL Workbench

Installation

TechForall With Priya



- ① Database
- ② Table

Datatype in SQL

- ① INT → numeric data
- ② Varchar(20) → textual string

Constraints in SQL

- ① NOT NULL → mandatory

"EID" → ② Primary Key → Uniquely identification
not null

E-commerce Sales

→ Data Analysis

✓
EID → Primary Key
↳ 1
2
3
4

firstName → Not a Primary Key

↳ Priya

Priya ✓

(DDL) Data Definition Language
DESC employee
update the schema of

Interview →

Update vs Alter Command the table
↳ update the record

inside the table

(DML)

(Data Manipulation

Language)

FN { SELECT FirstName, LastName FROM employee
WHERE Salary > 100000 → filter the
data

{ Priya Bhelia
 Naya Sai
 Kaneelha Brownlee

flow of code

FROM

SELECT

WHERE

FROM

WHERE (filter)

SELECT (showcase)

Data Structure

→ Store the
data in an
efficient
manner

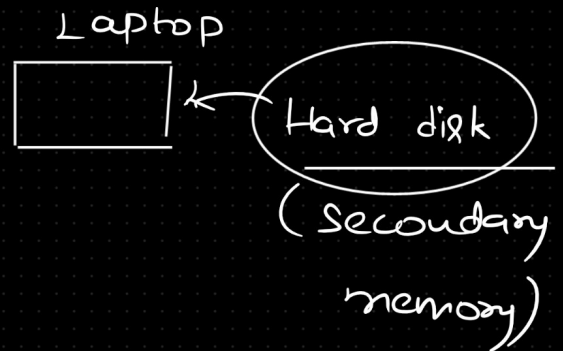
Primary
memory RAM

8GB



Database

→ hard disk



DSA

→ Optimize your code

{ time complexity ↓
space complexity ↓