

## Database -> Mysql

500 internship students data

Name

Email

Address

Mobile

Rollno

Course

File IO

- Read

- Write

NotePad.exe

Applications

- C

- CPP

- Java

- Python

StudentMarks.txt

## Java

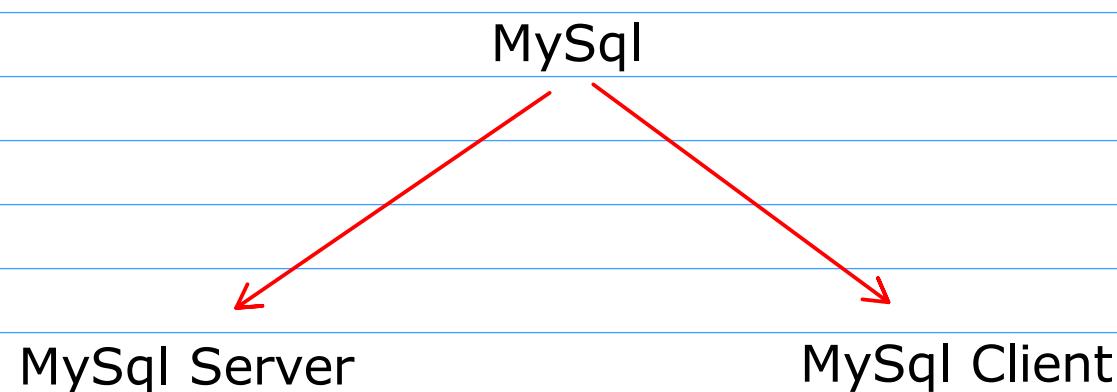
- Read the entire file
- store the 500 students in an array
- array of Student objects
- for loop to iterate an array
- if condition

VS

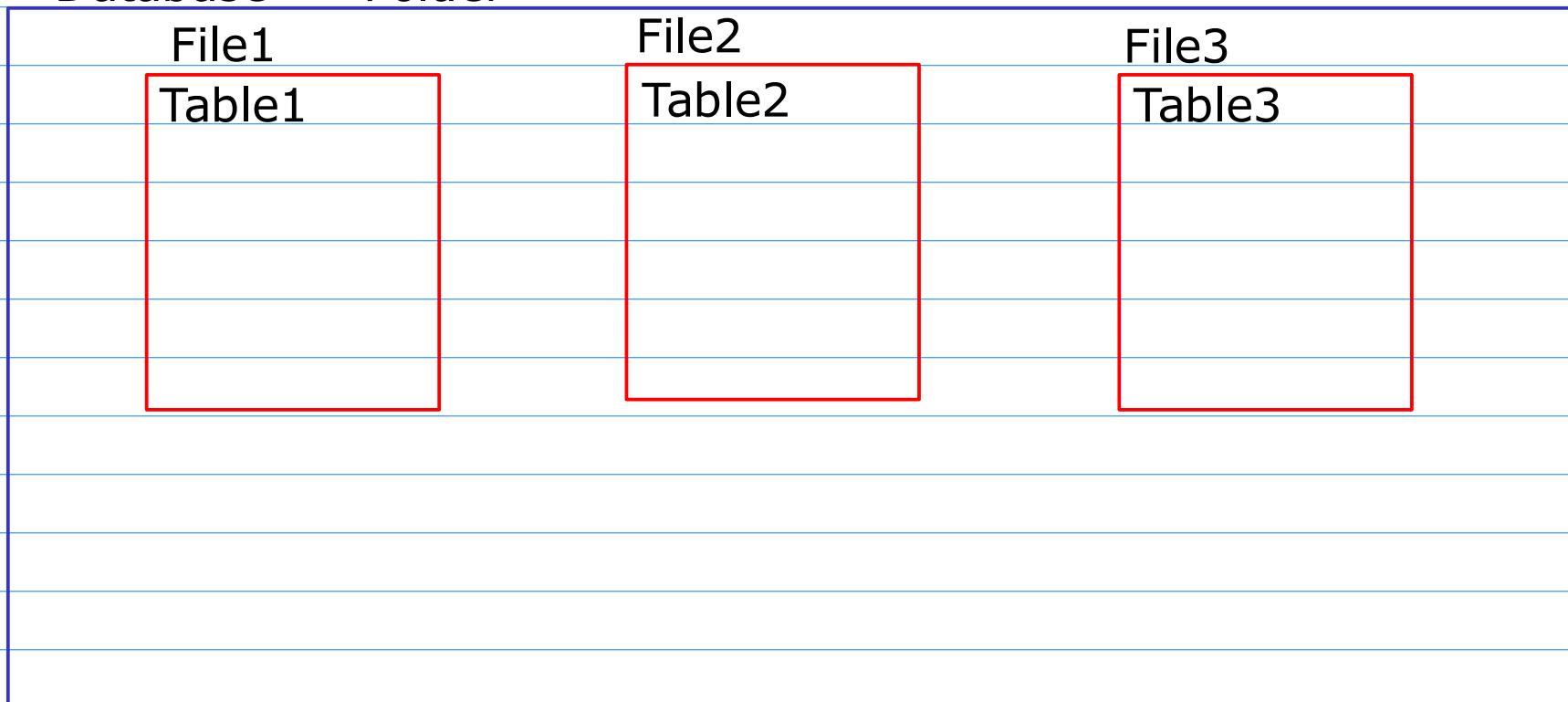
SELECT \* FROM emp WHERE job = "MANAGER";

## Database Applications

- To persist the data
- To provide the simplicity for data processing



## Database -> Folder



## DataTypes

INT  
DOUBLE  
DECIMAL(M,N)  
CHAR  
VARCHAR  
BLOB  
ENUM  
DATE  
TIME  
TIMESTAMP

### Primary Key

- Its a constraint that checks the data inside the col is unique + NOT null

### AUTO\_INCREMENT

- Surrogate Primary key

## # SQL Categories

- DML
  - INSERT, UPDATE, DELETE
- DQL
  - SELECT

## # INSERT

- Used to add the data in the database

## Q. Why multiple tables are required

- To avoid data redundancy

Customer

1, Anil,....

Product

1, Pen , 10....

Orders

cid, pid  
1, 1  
1, 2

Joins