

Database -> Mysql

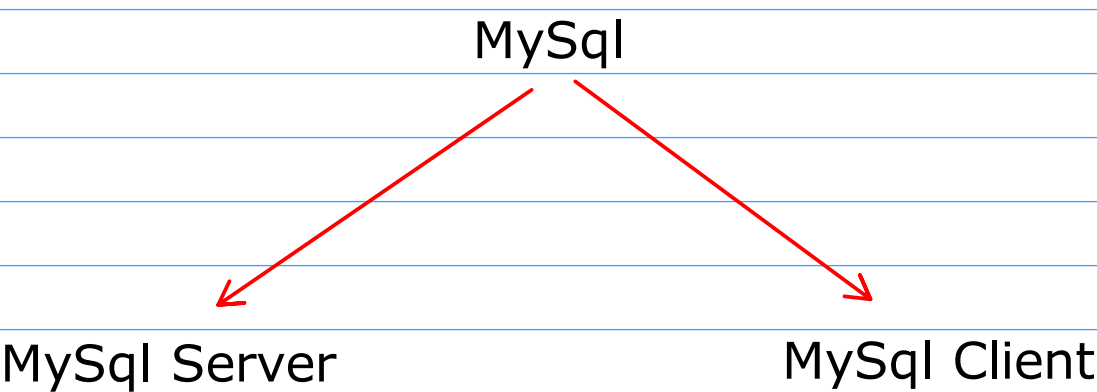
500 internship students data	File IO	NotePad.exe
Name	- Read	
Email	- Write	
Address		
Mobile	Applications	StudentMarks.txt
Rollno	- C	
Course	- CPP	
	- Java	
	- Python	

Java

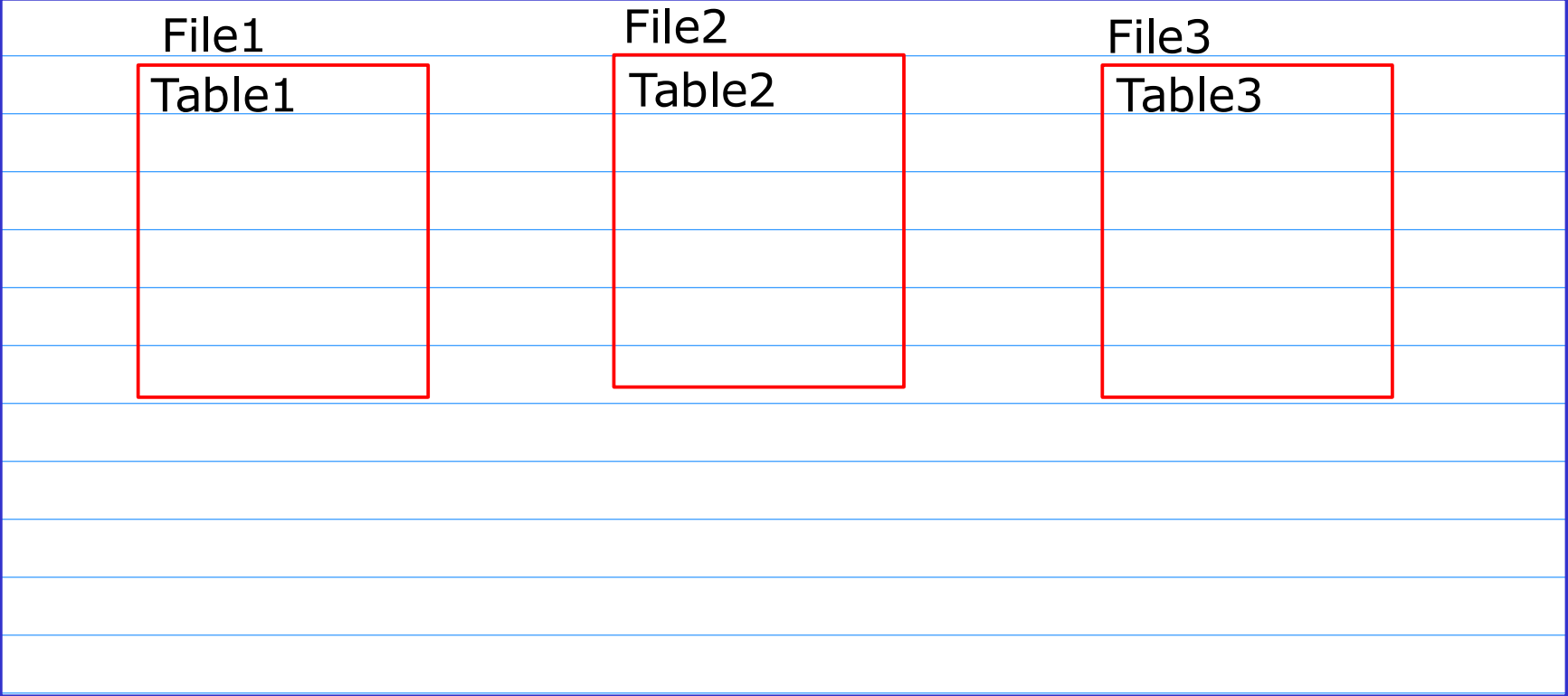
- Read the entire file
 - store the 500 students in an array
 - array of Student objects
 - for loop to iterate an array
 - if condition
- VS
- ```
SELECT * FROM emp WHERE job = "MANAGER";
```

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