

DBMS

Database Management System

Data

Base

Data  $\Rightarrow$  Any sort of information

eg  $\Rightarrow$  Nardik Age  $\Rightarrow$  20, Email

Database  $\Rightarrow$  Plan to store data

Storing some songs in drive

Database [ Structured Unstructured ] Tables

RDBMS

webpages

Relational DBMS

Proper  
format  
organises  
way

DBMS  $\Rightarrow$  Data processing  
 $\Rightarrow$  Performing certain ops  
on Data

Write

Read

Delete

(changes in  
DB)

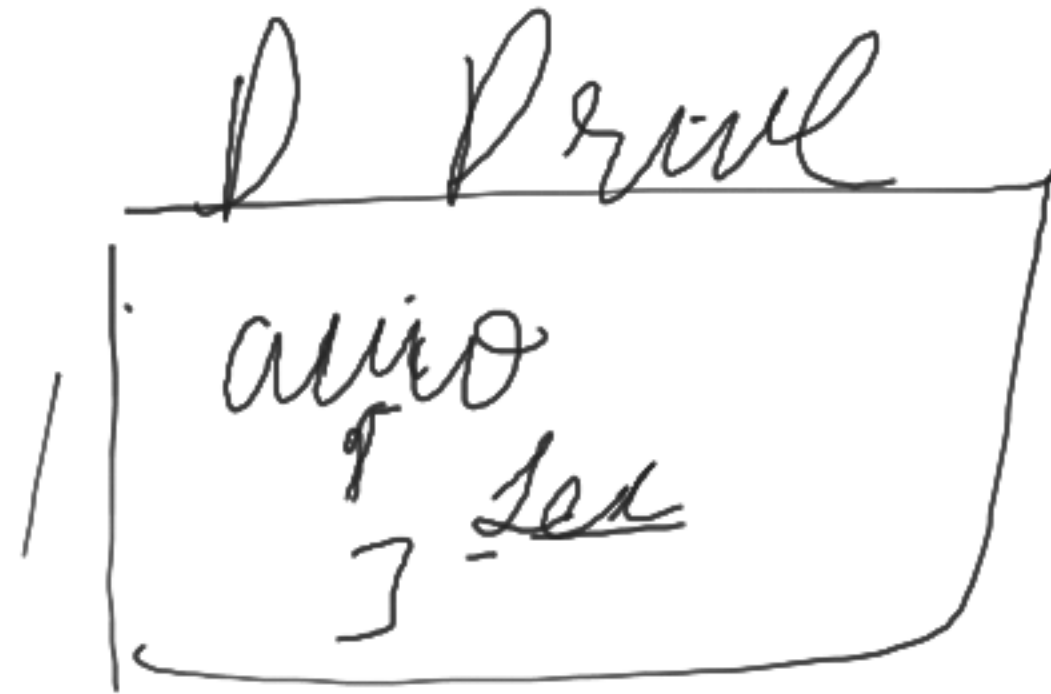
Oracle

DB2  $\Rightarrow$  IBM

MySQL  $\Rightarrow$  DBMS software

Query  
SQL  $\Rightarrow$  language

# File system vs DBMS



Local Storage



Server/DB

(Plan to store data)

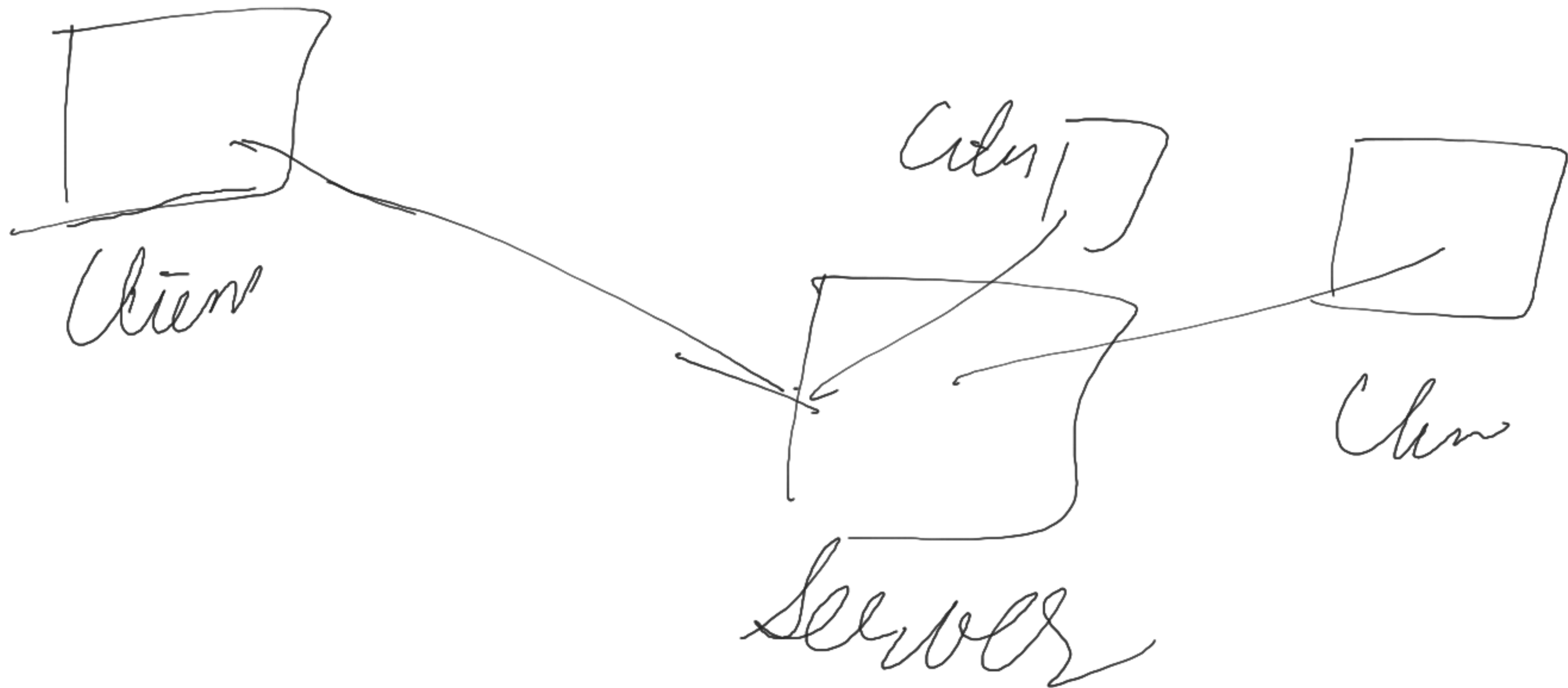
C.S.A

Client Server Architecture

who can Access it ?

FS





Word Storage

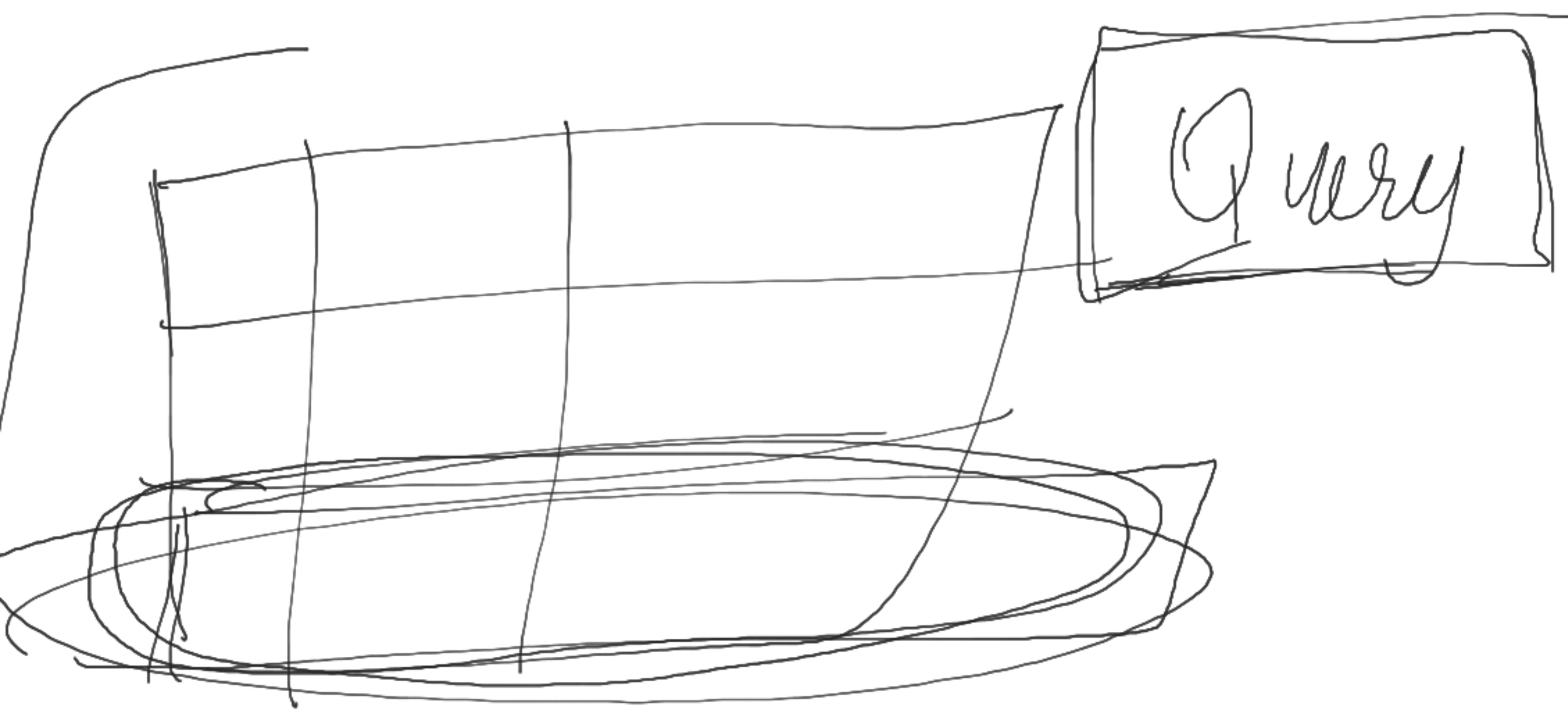
Valerianid

- ① Number of users
- ② Data of students

File of students  $\Rightarrow$

GB, TB

$\Rightarrow$  specific student

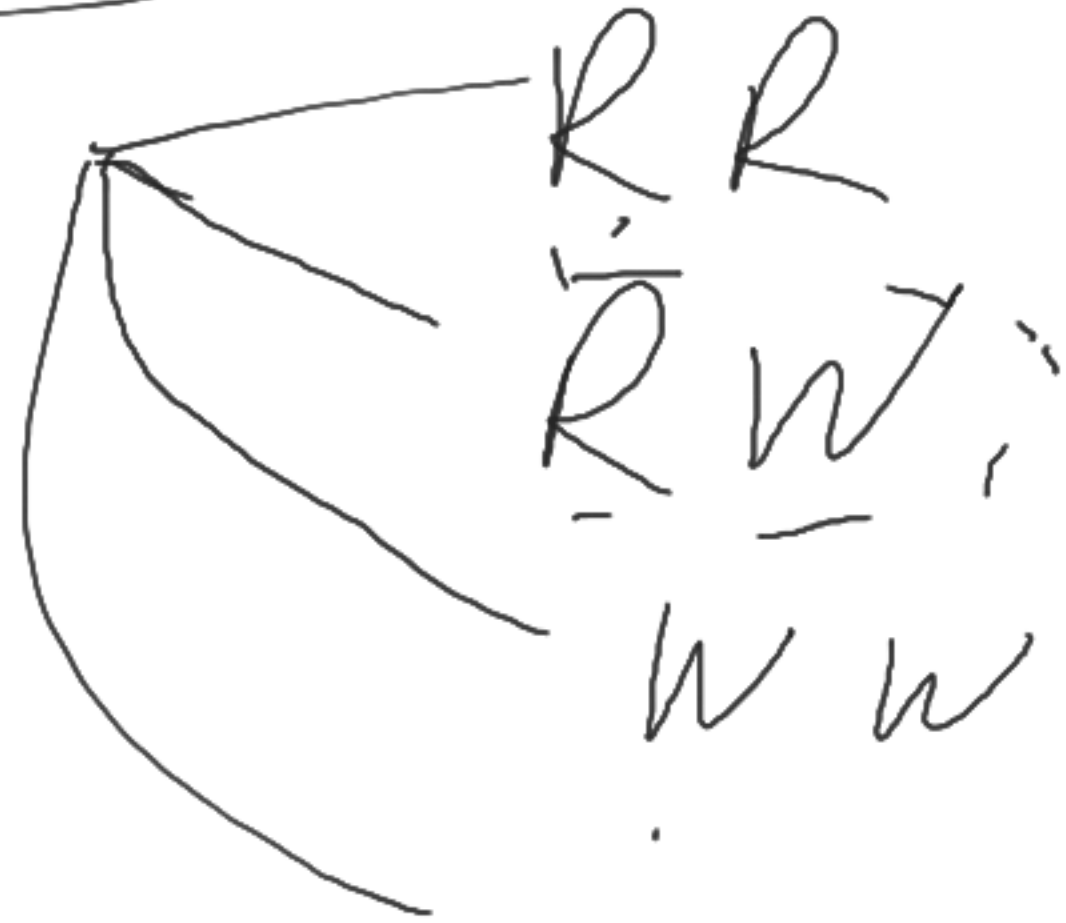


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(3) Concurrency  $\Rightarrow$  Multiple users

Missing the data



4) Security

Tier - 2, 3

C1



C2



Tier - 2

C3



Crash

Client is  
directly  
interacts  
with server  
server

Tier - 3 C1

C2

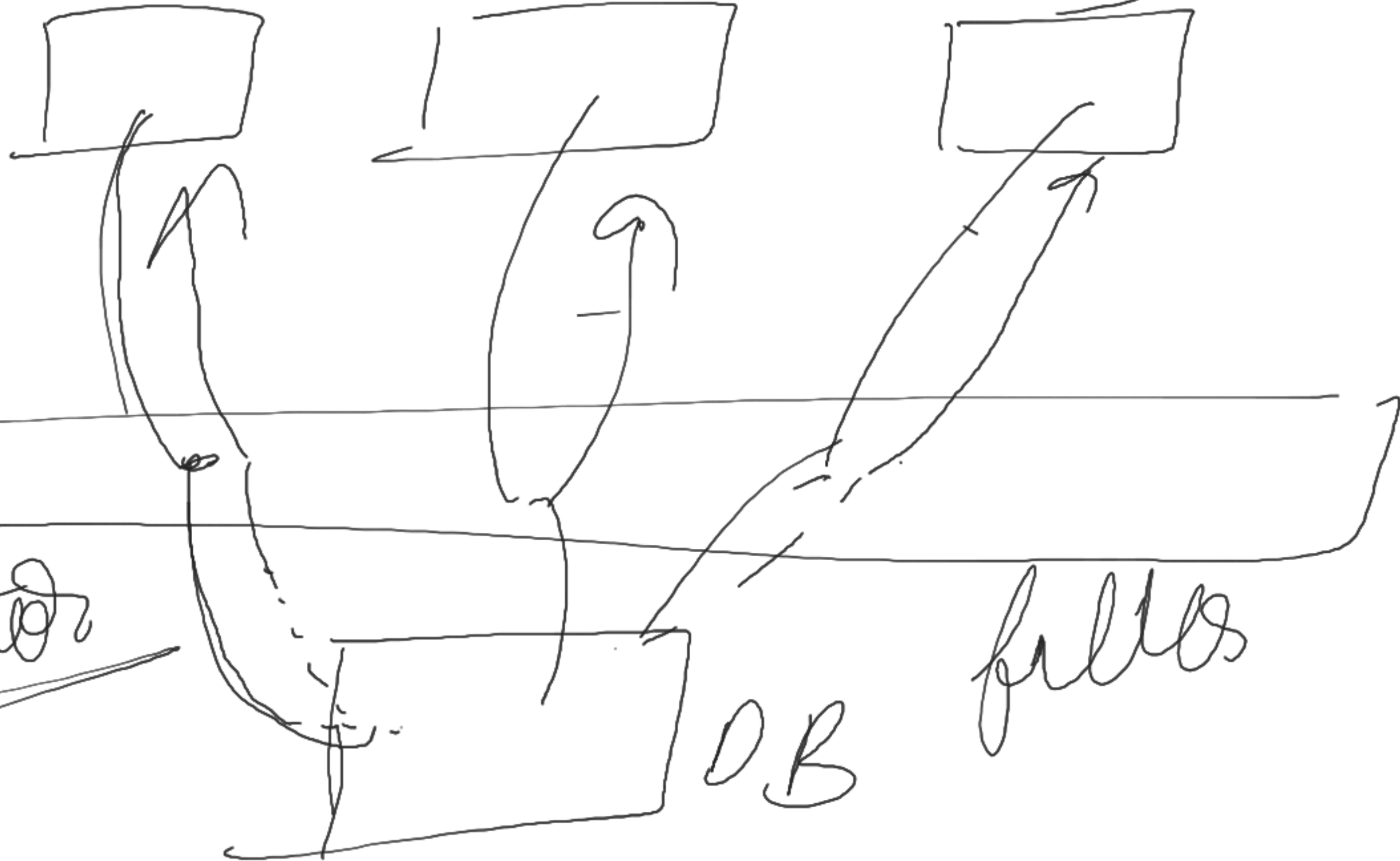
C3

App  
layer

Moderator

DB

filter





scalability

10 users

100 users

12 users

102 users

