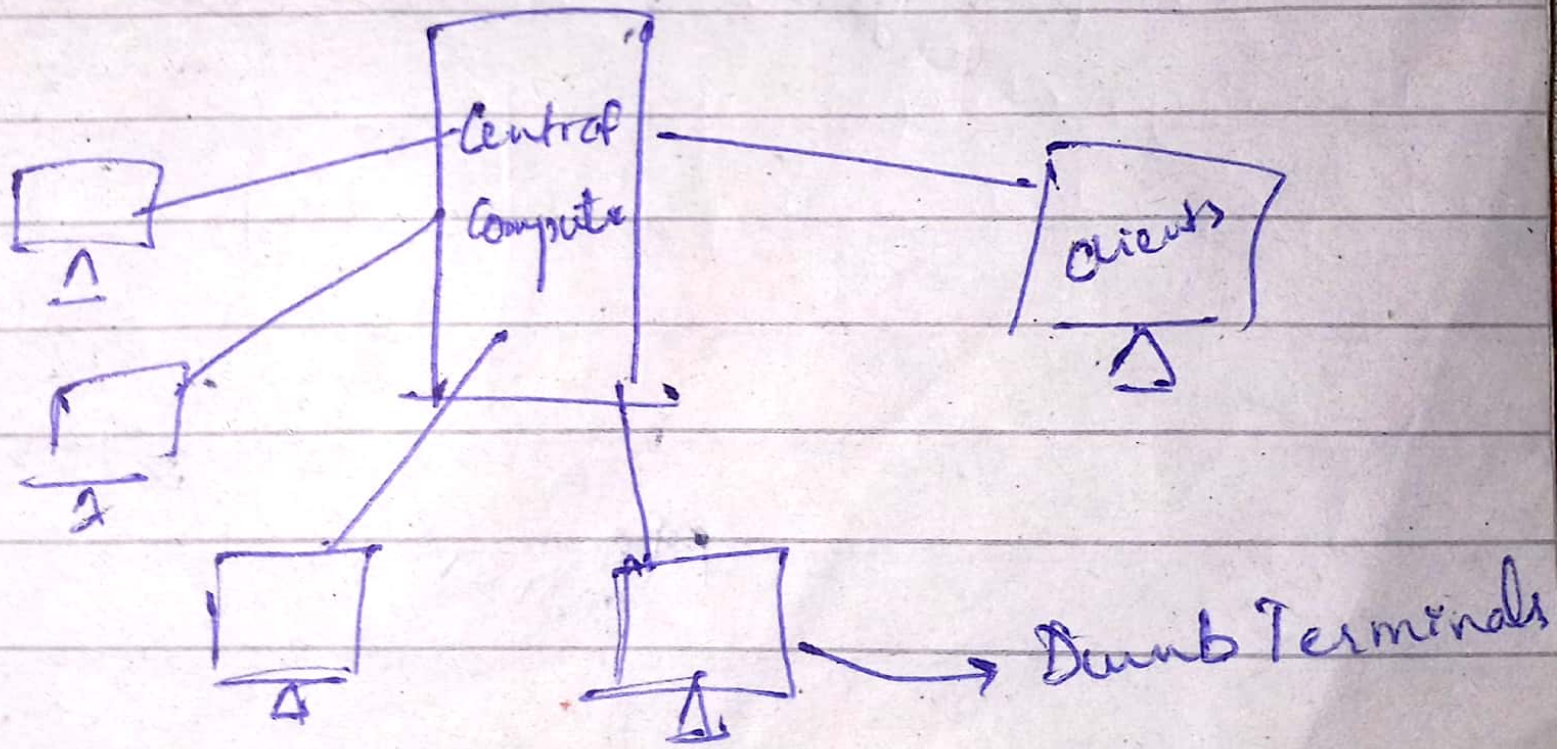
MULTI USER DBMS :

① Teleprocessing Architecture :

⇒ traditional dbms multi-user environment.



⇒ Terminals are all dumb which means they don't have any processing capabilities.

⇒ They are used for just input eg D

⇒ DBMS wgera sb central computer me installed hoga.

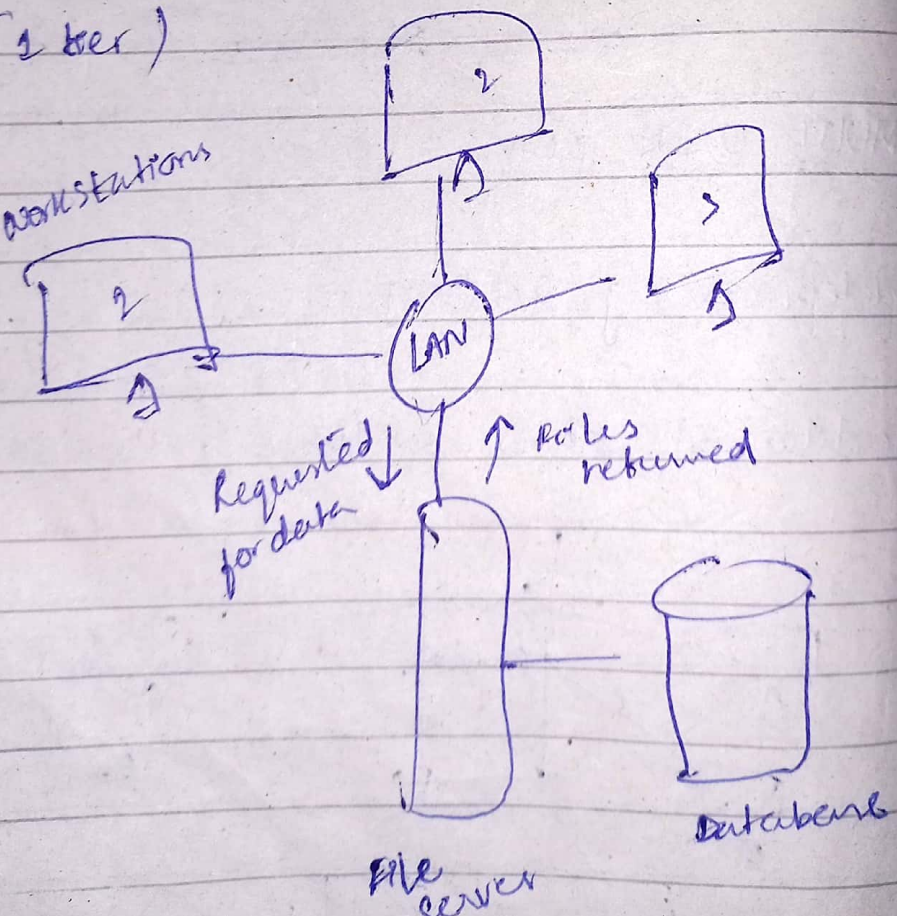
⇒ Central Comp. Mainframe.

⇒ All burden central comp. (drawback)

⇒ 1960s.

(2) File Server Architecture:

(2 tier)



→ one tier to use krte he
job multiple log access
kr rahe hain DB ko

⇒ Workstations are much better than dumb terminals. They have their processing capabilities. They are specialized.

⇒ DBMS copy is running on all workstations. Or jitni bhi files hen or DB ko wo file server me hogi.

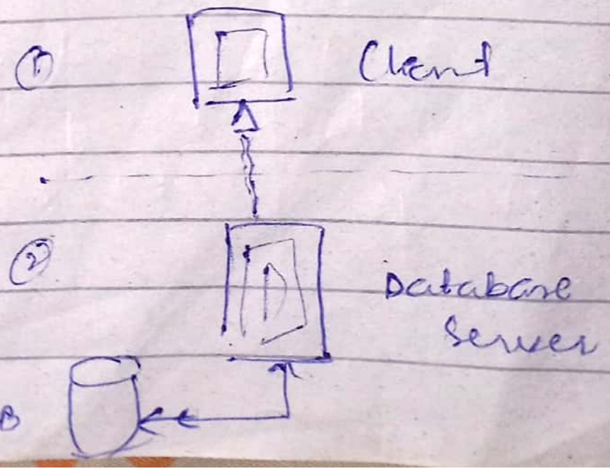
⇒ hmen jb bhi work krna hoga hm file server ko approach krege, to ye DB se sari files workstation pe send krdega.

⇒ Network conjusted rhta he, agr mujhe 2 employee ka record chye or file me 800 ka record he to FS mujhe poori file utha ke bhjega, relevant nhi bhjega.

⇒ Network traffic increase, cos ke storage bhr jaegi

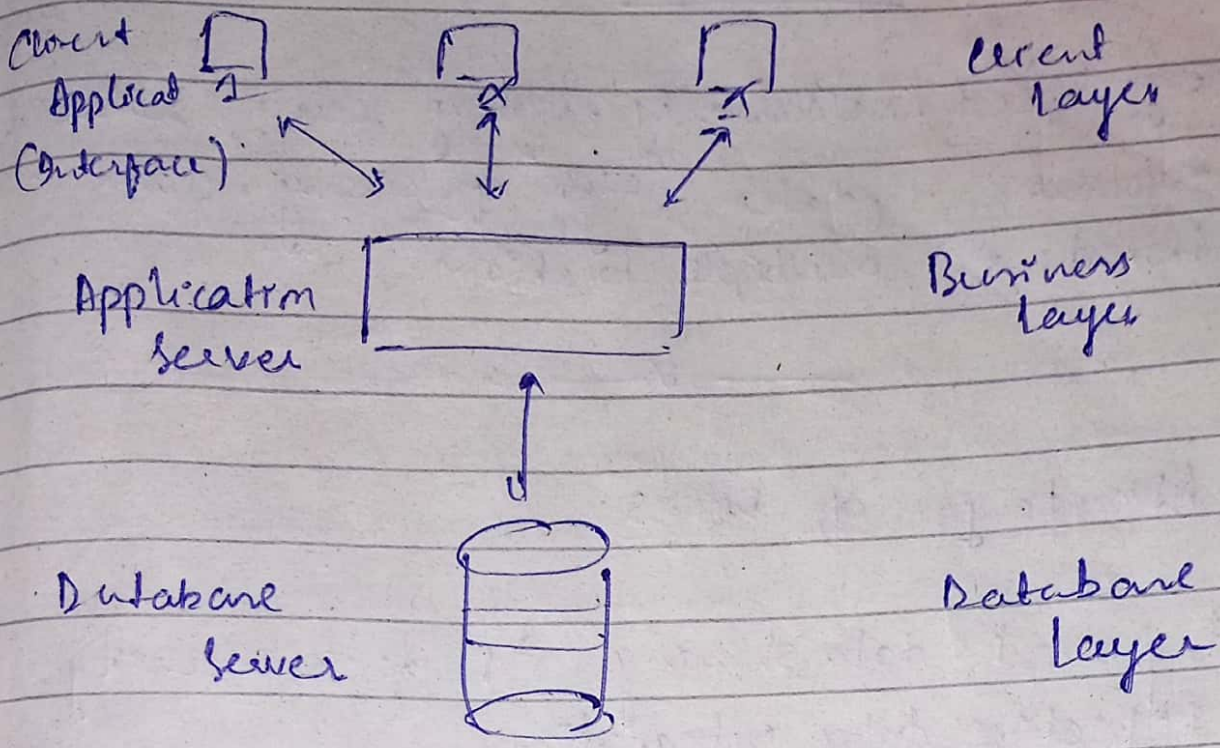
③ Client - Server Architecture:

⇒ Two Tier Client-Server Architecture:
↓
Layer/level



Or Security issue. because client db se direct connect
=> Scalability ka issue he, because users zyada ho
=> It is a client-server arch.
=> Direct communication will be there.
=> Runs faster.
=> Maintenance is very easy.
=> Client machine me ek interface he, jo data fetch karne me help kr rha he by running API. Ye api JDBC/ODBC ke through DB se sath ek connection create krta he.
=> Interface pe ek query lekhege, or ye server pe jaega. phir server use process krega
=> Agr hm railway station pe jate he phy. form fill karen or wha jo clerk he use den, wo phir uska data enter krega apne PC (client) m or train ki details fetch ho ke ayegi (database) server se.

Three Tier Architecture :



⇒ Client request send krta hai interface se, query execute hti hai business layer me, phir data fetch hota hai DB se.

⇒ DB pe load nhi pdta rehta, phle use execution bhi khud krni hti thi or fetch b.

⇒ DB secure hogaya, client direct access nhi kr rahe.

⇒ Users jitne bhi hon ab msla nhi hoga, scalability ka issue solve hogaya.

⇒ System is complex, maintenance ka thora issue hoga.