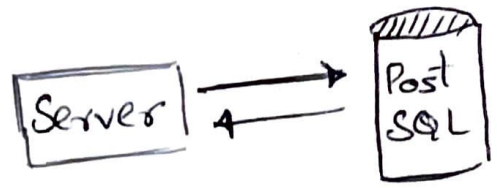


PostgreSQL connection management

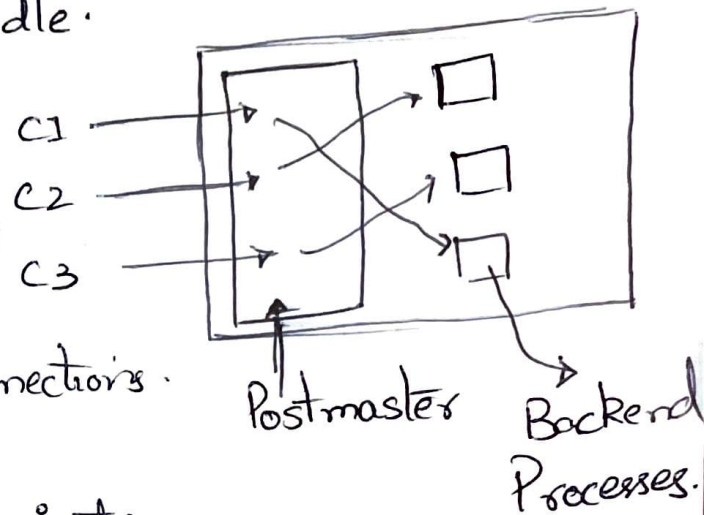
→ PostgreSQL implements process per user client/server model

↳ Core Idea: Every client process connects to one backend process



Postmaster Process: is the main supervisor that accepts client connections on the default port (5432) & creates Backend Process to handle.

Backend Process is the one that parses processes & executes query, while postmaster continues to accept client connections.



These backend processes communicate with each other through a number of shared memory regions (shmget & shmat)

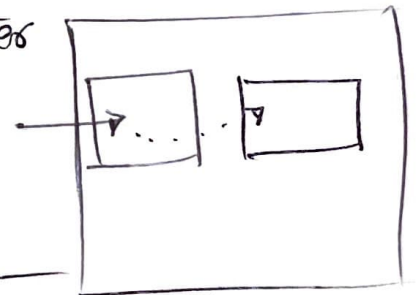
How are TCP connections shared with Backend Process?

Client created connections with Postmaster

Postmaster process executes the query.

how will backend process send response to

TCP connection setup in Postmaster?



Because child process inherits the file descriptors from parent process & because even socket = File, the child can access socket from parent.