SQL
↳ Structure Query Language

Server at Area51
Port no : 3808

← Connection

database

Relational Database Management
↓
Tabular form
→ Rows & Column
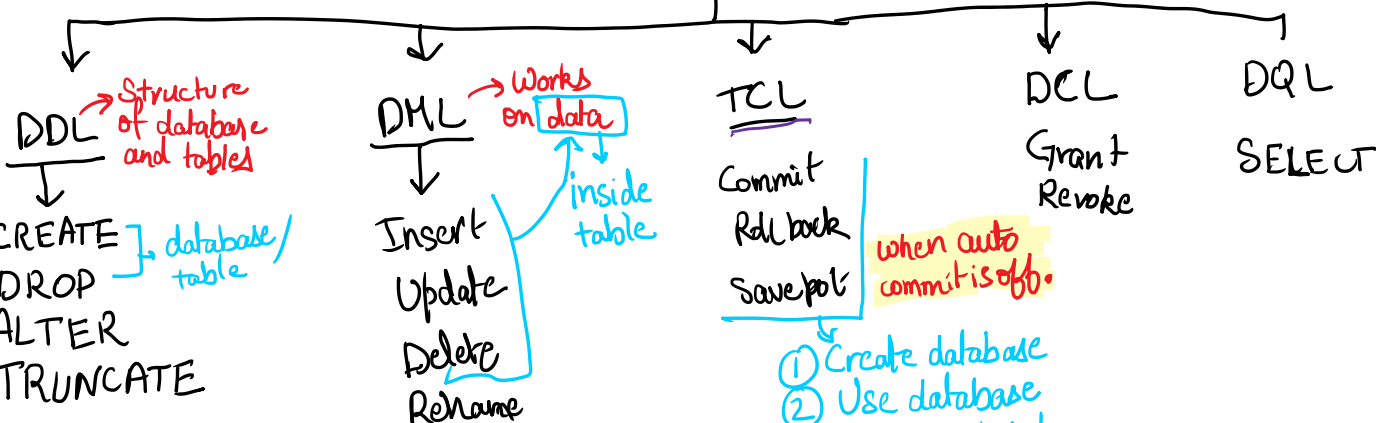
You

I have data and want to save it in database

Language to communicate to db is **SQL**
↳ tools? → MySQL, MS SQL server, SQL Lite, Oracle, Maria db

1. Create database
2. Use data base
3. Create table
4. Insert data

SQL Language

DDL → Structure of database and tables

CREATE] database/table
DROP
ALTER
TRUNCATE

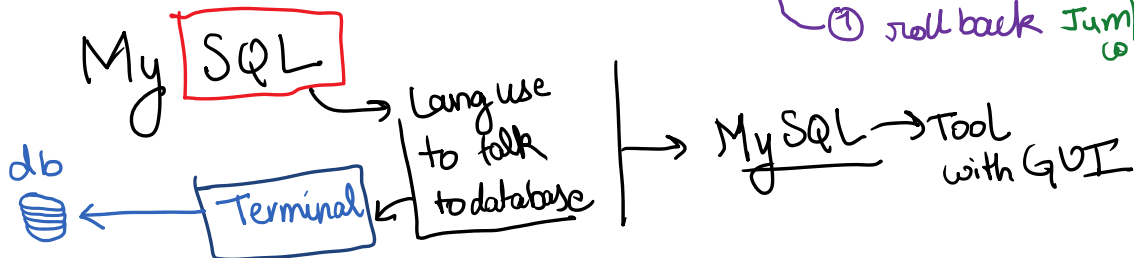→ Modify the Structure of table eg: Add/Modify datatype/Constraint Add/Drop Column

DML → Works on [data]
inside table

Insert
Update
Delete
Rename

TCL

Commit
Rollback
Savepoint

when auto commit is off.
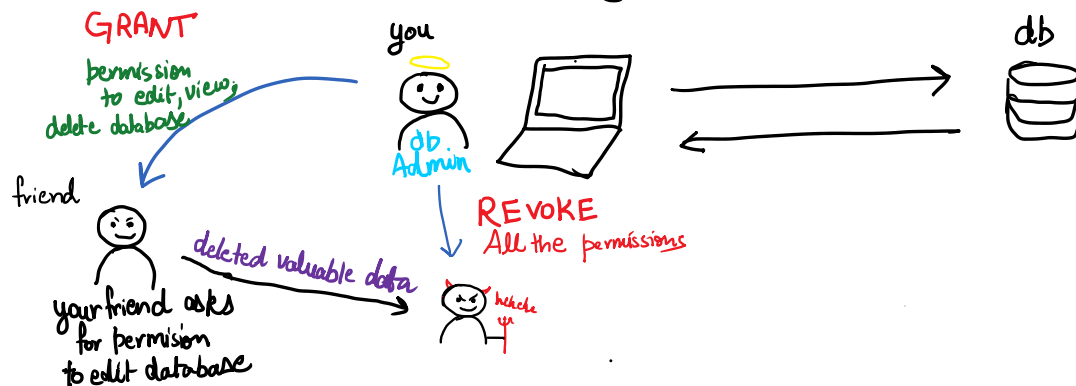
① Create database
② Use database
③ Create table
④ Insert 5 rows
→ ⑤ Commit ✓ will make change in database.
⑥ Insert 2 rows X X X X X
⑦ roll back Jumped to last commit

DCL
Grant
Revoke

DQL
SELECT

My SQL

Lang use to talk to database

→ MySQL → Tool with GUI

db ← Terminal

→ DCL → Data Control Language

AREA50

GRANT
permission to edit, view, delete database

you
db Admin

db

friend

REVOKE
All the permissions

your friend asks for permission to edit database

deleted valuable data

hehehe ya

→ CREATE Land/Plot
Where you going to build your house

1020 sqft

→ CREATE DATABASE

→ Go to Site
where your Land is situated

→ USE DATABASE

→ Build your house on that site/plot

empty house

→ CREATE TABLE

Blueprint of your house is Data Model

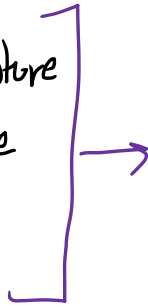→ Put your furniture inside of the house

DATA
→ INSERT INTO

→ After putting furniture you want to divide one room in two with wall

→ ALTER TABLE MODIFY

→ After putting furniture you want to divide one room in two with wall

ALTER TABLE
MODIFY

→ Add Garage for Car in your house

ALTER TABLE
ADD   Col_name