### DBMS

MySQL is a database....

* SQL is a structure query language using for perform MySQL....
* RDBMS => Relational Data Base Management System....

* Work on tabular form....

DATABASE => it is a space : work store data like image ,tables etc ....

🡺 A database is an organized collection of data that is store and managed in a way

Type of sql language 🡺🡺

* **DDL**– Data Definition Language
* **DQL**– Data Query Language
* **DML**– Data Manipulation Language
* **DCL**– Data Control Language
* **TCL**– Transaction Control Language

CREATE DATABASE => CREATE DATABASE database-name

Types of Databases

* There are several types of databases, that are briefly explained below.

1. Relational Database Management System (RDBMS)
2. Non-Relational Database Management System (NoSQL or Non-SQL)
3. Hierarchical databases
4. Network databases
5. Object-oriented databases
6. Relational databases
7. Cloud Database
8. Centralized Database
9. Operational Database
10. NoSQL databases

* USE DATABASE 🡺🡺

use database-name

* CREATE TABLE 🡺🡺

CREATE TABLE Course(course\_id INT PRIMARY KEY,course\_name varchar(15) not null)

* SHOW TABLE STRUCTURE 🡺🡺

DESCRIBE course(table name);

* INSERT DATA INTO TABLE =>
* INSERT INTO course(course\_id,course\_name)

VALUES

(1,'Mathematic'),

(2,'Physics'),

(3,'Chemistry');

DDl ( Data Definition Language)=(insert,delete, alter)🡺🡺🡺

CREATE STUDENT TABLE 🡺

CREATE TABLE student(name varchar(20) not null,

address varchar(50) not null,

contact varchar(10) not null ,

stud\_id int PRIMARY key

);

DML {Data Manipulation Language}==( update)🡺🡺🡺

INSERT DATA INTO STUDENT TABLE 🡺

INSERT INTO student(name,address,contact,stud\_id)

VALUES

('Yogendra Patidar','Atal Dwar,Indore','8746352345',101),

('Saksham Malviya','Vijay Nagar,Indore','7838237264',102),

('Mani Agrawal','ByPass,Indore','6573836463',103),

('Abhishek Umre','Kalani Nagar,Indore','7643568976',104),

('Atishay Jain','Gita Bhawan,Indore','8654936785',105);

* DataType 🡺🡺
* Int
* Decimal
* Varchar
* Text
* Date
* Date and time
* Boolean
* Const

Constent type🡺🡺

* Primary key == For fetch
* Foreign key == all data store in object
* Not null ==Required
* Default ==
* Enum == choice based fix data
* Unique key == Unique value
* Check == conditional

Add one more new field in table 🡺🡺

ALTER TABLE course ADD COLUMN fees int

Modify table field datatype 🡺🡺

ALTER TABLE course MODIFY fees varchar(30)

Delete specific table field 🡺🡺

ALTER TABLE course DROP fee

Create new database 🡺 🡺

CREATE DATABASE empdb;

Use data base🡺🡺

Use empdb;

Create new emptable 🡺🡺

CREATE TABLE emptable(Empid int PRIMARY key not null,

First\_name varchar(50) not null,

Last\_name varchar(50) NOT null,

Age int not null,

Hire\_date date,

Address varchar(100)

);

Insert data into epmtable 🡺🡺

INSERT into emptable(Empid,First\_name,Last\_name,Age,Hire\_date,Address)

VALUES

(101,'Yogendra','Patidar',20,'2024-11-10,'Atal Dwar,Indore');

Change fiend name 🡺🡺

ALTER TABLE tbalename CHANGE oldfeildname newfieldname datatype constent;

ALTER TABLE student CHANGE contact mobile varchar(10);