Types of Data bases :-

(Relational (RDBMS)

Stores duta in tables.

Eg - KySPL, Oracle, PostgreSPL

(R) Non-Relational (NoSPL)

Data Not Stored in tables

Eg - Mongo DB

> SPL

Use to interact with RDBMS.

It is used to perform CRUD operation:

C reate

Read

U Polate

D dete

One database can have multiple tables in it.

Student table RollNo Name Class Gender Marks 551 +) TOW \ Nanda X 1995-06-06 Agra 462 Saurabh XII 1993-05-07 M Mumbai) 2000 S Sonal 1994-05-06 Delhi 400 XI Trisla XII 1995-08-08 Mumbai 450 XII Delhi 369 Marisla XI Dubai 250 Neha X 1995-12-08 377 Moscow Nishant 489 Moscow

(olumn > design) Schema/Structure

You > individual data.

* Types of SIL Command-

DDL (Data Defination language): Create, alter, rename, truncate Indrop

DOL (Data guery language); Select

DML (Data Mamipulation Language): insert, update, delete

DCL (Data Control Language): grant I revoke permission to user

TCL (Transaction Control language); Commit, rollback, Start transaction

*> Keys:

Polmary Key-

- · a unique i
- . Only 1 PK exists for a particular table.
- . PK can't be NULL.

toregin Key-

- . used to refer to the PK of another toble
- · Can be multiple fx.
- > Constrants for Data -
 - O Not NULL
 - à unique
 - (3) Primary Kay) Combination of unique and Not WULL
 - Can be Combination of two Col. CREATE TABLE temp1 (
 id INT, individual Col can have duplicate age INT, vales But the Combination of Cols PRIMARY KEY (id, name) must be unique.
 - city VARCHAR(20),

4 toregin Key

```
PK name of refrance table
```

- (5) Default used to set Default value for a Col.
 - 6 Check limit the values allows into the Column.

```
▷ Run | New Tab | Copy
CREATE TABLE city (
id INT PRIMARY KEY,
city VARCHAR(50),
age INT,
CONSTRAINT age_check CHECK (age >= 18 AND city="Delhi")
);

▷ Run | New Tab
CREATE TABLE newTab (
age INT CHECK (age >= 18),
);
```

Aggregate Function

Count()

Mon()

Min()

Sum()

Avg ()

- (8) where applied on rows
- Having groups

Note: General Order of S92 - Select

FROM

WHERE

GROUP BY

HAVING

ORDER BY

```
DROP DATABASE temp1; used to crewte Database

DROP DATABASE temp1; used to delete Database

DROP DATABASE temp1; used to delete Database
```

DRUM | New Tab

CREATE DATABASE IF NOT EXISTS college;

Will only (reate i) table doesn't emist die givos warning.