Creation of Database

Lets understand database design from an example, Consider a college database.

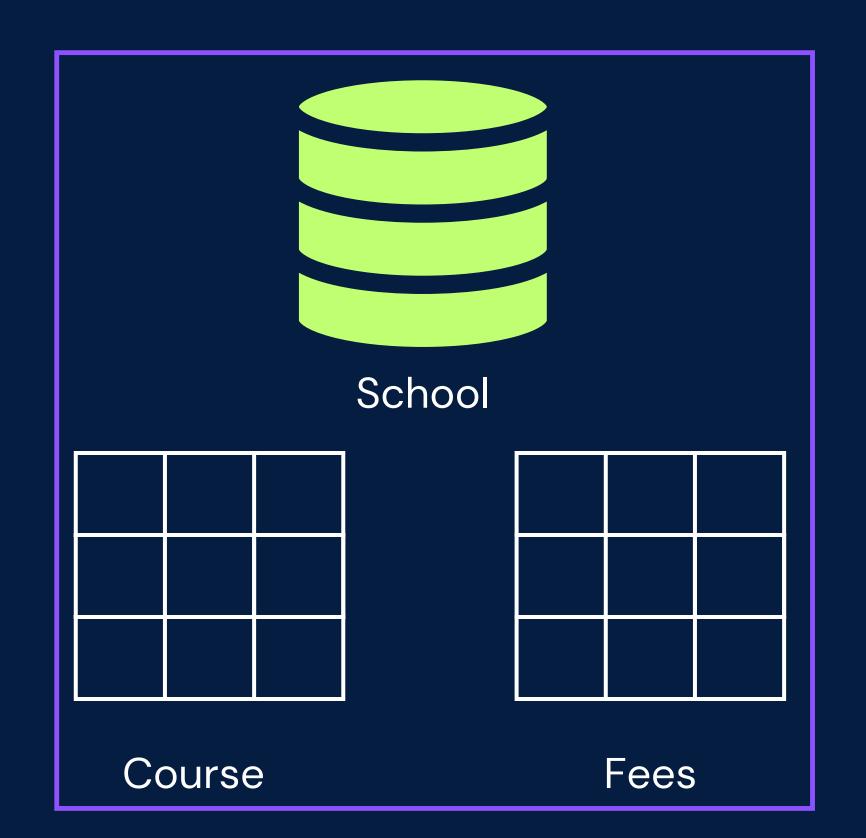
Databse- School

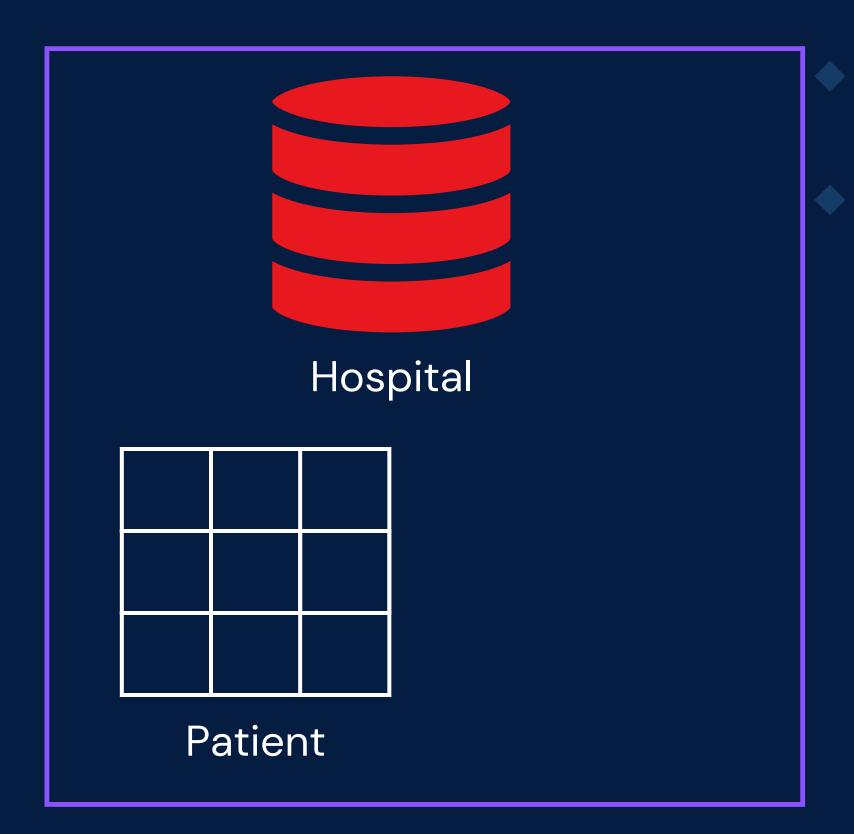
table1- <u>Student</u> (Sname, Rollno)

table2-<u>Teacher</u>(Tname,Tid)

Sname, Rollno, Tname, Tid->attributes(characteristics)

Creation of Database





Creation of Database

Steps to create a Database:

- 1. Choose a DBMS(Database Management System)
- 2. Connect to the server using a command-line tool or a graphical user interface.
- 3. Create a new Database
- 4. Once the database is created, you can use the USE statement to create tables in the database.
- 5. Create Tables and Insert Data

Creation of Database

Creating a new Database

We use the <u>CREATE DATABASE</u> statement to create a new database These commands are not case-sensitive.

Command: CREATE DATABASE databaseName;

Also to avoid errors we can use:

Command: CREATE DATABASE IF NOT EXISTS databaseName;

IF NOT EXISTS and IF EXISTS clauses are commonly used in conjunction with the CREATE TABLE and DROP TABLE statements to avoid errors

Deletion of Database

Deleting a Database

We use the <u>DROP DATABASE</u> statement to delete a database. Dropping a database means deleting the entire database, including all tables, data, and other objects within it. DROP Is a DDL Command. These commands are not case-sensitive.

Command: DROP DATABASE databaseName;

Also to avoid errors we can use:

Command: DROP DATABASE IF EXISTS databaseName;

<u>Using a Database</u>

Using a Database

We use the <u>USE DATABASE</u> statement to use a database These commands are not case-sensitive.

Command: USE databaseName;

Showing all the Database

Showing a Database

We use the **SHOW DATABASES** statement to see all the databses present in a server.

Command: SHOW DATABASES;