

# LET'S START WITH SQL :)

## Creation of Database

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

Databse- School

table1- Student (Sname, Rollno)

table2- Teacher (Tname, Tid)

Sname, Rollno, Tname, Tid → attributes(characteristics)

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## Creation of Database



School

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Course

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Fees



Hospital

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|  |  |  |

Patient

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## 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

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## Creation of Database

### Creating a new Database

We use the CREATE DATABASE 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**

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## Deletion of Database

### Deleting a Database

We use the DROP DATABASE 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;**

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## Using a Database

### Using a Database

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

Command: **USE databaseName;**

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## 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;**