Agenda

- Mysql Basics
- Datatypes
- Create Table
- DML
- DQL
- Where
- Order By
- Inner Join

Getting Started

- We can use terminal as well as the Workbench(GUI) as client to work with the MySQL Server.
- open the terminal and give the below command

```
mysql -u root -p

//OR

mysql -h localhost -u root -p

// enter the password and hit enter
// you should be logged into mysql shell
```

- mysql
  - client tool
- -u
  - user
- root
  - name of the user
- -p
  - password
- -h
  - host
- localhost
  - current system, also we can provide other system hostip here.

```sql
-- to display all existing databases
SHOW DATABASES;

-- To display loggedin user
SELECT USER();

-- To display Selected Database
SELECT DATABASE();
```

```sql
-- To clear the mysql shell window
\! cls

-- to cretae a database
CREATE DATABASE classwork;

-- to use the database
USE classwork;

-- Create a table
-- CREATE TABLE table_name()
CREATE TABLE student(rollno int, name char(10));

-- to remove the entire table
DROP table student;

-- to remove database
DROP DATABASE classwork;
```

DataTypes

- int (4 bytes)
- double (8 bytes)
- decimal(m,n)
    - m -> no of digits (Max is 65)
    - n -> no of digits after the decimal point (Max is 30)
    - eg -> Decimal(4,2) -> 12.34
- char(n)
    - n -> no of characters
    - length 0-255
- varchar(n)
    - n -> no of characters
    - length 0-65535
    - The length can be specified as a value from 0 to 65,535.
    - The effective maximum length of a VARCHAR is subject to the maximum row size (65,535 bytes, which is shared among all columns) and the character set used.
- blob
- date
    - yyyy-mm-dd (1000-01-01 to 9999-12-31)
- Timestamp
- Enum (Bike,Car,Truck) -> radio Button

SQL Scripts

```sql
USE classwork;
SELECT DATABASE();
```

```
SOURCE D:/classwork-db.sql

SHOW TABLES;
SELECT * FROM books;
SELECT * FROM dept;
```