

SQL Session - 2

- Step - 1 : Installation.
- Step - 2 : To check the databases;
- Step - 3 : To Create & Drop the Database;

```
mysql> SHOW DATABASES;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
+-----+
3 rows in set (0.01 sec)

mysql> CREATE DATABASE soap_store;
Query OK, 1 row affected (0.01 sec)

mysql> SHOW DATABASES;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| soap_store |
+-----+
4 rows in set (0.00 sec)
```

Database Server

Rules of Calling a Database Name

- You can't start the database name with Number.
- Employee Detail (X)
 - employeeDetails [Camel Case]
 - employee_details [Snake Case]
 - 'Employee Detail' [Added inside the quotes]

```
USE <database name>;
```

```
mysql> SELECT DATABASE();
```

```
mysql> SELECT DATABASE();
+-----+
| DATABASE() |
+-----+
| NULL      |
+-----+
1 row in set (0.00 sec)
```

```
mysql> USE soap_store;
Database changed
mysql> SELECT DATABASE();
+-----+
| DATABASE() |
+-----+
| soap_store |
+-----+
```

Numeric Types

- INT
- SMALLINT
- TINYINT
- MEDIUMINT
- BIGINT
- DECIMAL
- NUMERIC
- FLOAT
- DOUBLE
- BIT

String Types

- CHAR
- VARCHAR
- BINARY
- VARBINARY
- BLOB
- TINYBLOB
- MEDIUMBLOB
- LONGBLOB
- TEXT
- TINYTEXT
- MEDIUMTEXT
- LONGTEXT
- ENUM

Date Types

- DATE
- DATETIME
- TIMESTAMP
- TIME
- YEAR

<https://dev.mysql.com/doc/refman/5.7/en/date-and-time-functions.html>

Draw a Tweets Table

At a minimum the columns must include:

- A username (max 15 chars)
The tweet content (max 140 chars)

- A username (max 15 chars)
- The tweet content (max 140 chars)
- Number of favorites

Make sure to specify correct MySQL datatypes!

Tweets		
UserName	Tweet_Content	Favorites
varchar(15)	Varchar(140)	int

How to Create Tables :

```
mysql> CREATE TABLE Cats(
    -> name varchar(100),
    ->     age int
    -> );
Query OK, 0 rows affected (0.11 sec)

mysql> SELECT DATABASE();
+-----+
| DATABASE() |
+-----+
| employee   |
+-----+
```

Show Tables : Allow us to know, how many tables are present in a database;

```
mysql> SHOW TABLES;
+-----+
| Tables_in_employee |
+-----+
| cats                |
+-----+
1 row in set (0.02 sec)
```

DESC - Describe the structure/ schema of the cats table.

```
mysql> DESC cats;
+-----+-----+-----+-----+
```

```
mysql> DESC cats;
+-----+-----+-----+-----+-----+
| Field | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+
| name  | varchar(100) | YES  |     | NULL    |       |
| age   | int         | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+
2 rows in set (0.03 sec)
```

DROP - Helps to the delete the Tables :

```
mysql> DROP TABLE Cats;
Query OK, 0 rows affected (0.04 sec)
```

Now , No Tables available in a database selected. That's why Empty Set.

```
mysql> SHOW TABLES;
Empty set (0.00 sec)
```

Create a *pastries* table

- It should include 2 columns: name and quantity. Name is 50 characters max.
- Inspect your table/columns in the CLI
- Delete your table!

```
mysql> CREATE TABLE pastries(
->   name varchar(50),
->   Quantity int
-> );
Query OK, 0 rows affected (0.04 sec)

mysql> DESC pastries;
+-----+-----+-----+-----+-----+
| Field | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+
| name  | varchar(50) | YES  |     | NULL    |       |
| Quantity | int         | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)

mysql> DROP TABLE pastries;
Query OK, 0 rows affected (0.02 sec)

mysql> SHOW TABLES;
Empty set (0.00 sec)
```

```
mysql> SHOW TABLES;
Empty set (0.00 sec)
```

```
mysql> CREATE TABLE Cats(
    ->     name varchar(100),
    ->     age int
    -> );
Query OK, 0 rows affected (0.05 sec)

mysql> INSERT INTO cats(name, age)
-> VALUES ('Jetson', 7);
Query OK, 1 row affected (0.03 sec)

mysql> SELECT * FROM Cats;
+-----+-----+
| name | age |
+-----+-----+
| Jetson |    7 |
+-----+-----+
1 row in set (0.00 sec)

mysql> [
```

(age , name)
(19 , "Kitty")

```
mysql> INSERT INTO cats(age , name)
-> VALUES ('Jetson', 7);
ERROR 1366 (HY000): Incorrect integer value: 'Jetson' for column 'age' at row 1
mysql> INSERT INTO cats(age , name)
-> VALUES (19 , "Kitty");
Query OK, 1 row affected (0.01 sec)

mysql> SELECT * FROM Cats;
+-----+-----+
| name | age |
+-----+-----+
| Jetson |    7 |
| Kitty |   19 |
+-----+-----+
2 rows in set (0.00 sec)

mysql> [
```