***SQL Tutorials***

Username:**root**

Password: **greengangesh@1234**

* **Create Database**

//Create database database\_name;

Create database gjhadb1;

* **Show Database**

mysql> show databases;

+--------------------+

| Database |

+--------------------+

| gjhadb1 |

| information\_schema |

| mysql |

| performance\_schema |

| sys |

+--------------------+

* **Create Employee Table**

CREATE TABLE `gjhadb1`.`employee` (

`EmpID` INT NOT NULL,

`EmpName` VARCHAR(60) NOT NULL,

`EmpAge` INT NOT NULL,

`EmpDept` VARCHAR(45) NOT NULL,

PRIMARY KEY (`EmpID`));

* **Fetch Record from employeetable**

mysql> SELECT \* FROM gjhadb1.employee;

Empty set (0.00 sec)

* **Insert values into employee table;**

INSERT INTO `gjhadb1`.`employee` (`EmpID`, `EmpName`, `EmpAge`, `EmpDept`) VALUES ('1', 'Tom', '25', 'Operations');

INSERT INTO `gjhadb1`.`employee` (`EmpID`, `EmpName`, `EmpAge`, `EmpDept`) VALUES ('2', 'Emma', '23', 'Finance');

INSERT INTO `gjhadb1`.`employee` (`EmpID`, `EmpName`, `EmpAge`, `EmpDept`) VALUES ('3', 'Brad', '27', 'Marketing');

INSERT INTO `gjhadb1`.`employee` (`EmpID`, `EmpName`, `EmpAge`, `EmpDept`) VALUES ('4', 'Bradley', '26', 'IT');

* **Show records from department table**

mysql> SELECT \* FROM gjhadb1.employee;

+-------+---------+--------+------------+

| EmpID | EmpName | EmpAge | EmpDept |

+-------+---------+--------+------------+

| 1 | Tom | 25 | Operations |

| 2 | Emma | 23 | Finance |

| 3 | Brad | 27 | Marketing |

| 4 | Bradley | 26 | IT |

+-------+---------+--------+------------+

**Create Department Table**

CREATE TABLE `gjhadb1`.`department` (

`DeptID` INT NOT NULL,

`DeptName` VARCHAR(45) NOT NULL,

`DeptZone` VARCHAR(45) NOT NULL,

PRIMARY KEY (`DeptID`));

* **Insert Values into Department Table**

INSERT INTO `gjhadb1`.`department` (`DeptID`, `DeptName`, `DeptZone`) VALUES ('1', 'Operations', 'North');

INSERT INTO `gjhadb1`.`department` (`DeptID`, `DeptName`, `DeptZone`) VALUES ('2', 'Finance', 'South');

INSERT INTO `gjhadb1`.`department` (`DeptID`, `DeptName`, `DeptZone`) VALUES ('3', 'Marketing', 'East');

INSERT INTO `gjhadb1`.`department` (`DeptID`, `DeptName`, `DeptZone`) VALUES ('4', 'IT', 'West');

* **Show records from department table**

mysql> SELECT \* FROM gjhadb1.department;

+--------+------------+----------+

| DeptID | DeptName | DeptZone |

+--------+------------+----------+

| 1 | Operations | North |

| 2 | Finance | South |

| 3 | Marketing | East |

| 4 | IT | West |

+--------+------------+----------+

**Create Employee table in gjhadb database**

mysql> create database gjhadb;

Query OK, 1 row affected (0.01 sec)

mysql> use gjhadb;

Database changed

mysql> CREATE TABLE EMPLOYEE(

-> EmpID int,

-> FirstName varchar(255),

-> LastName varchar(255),

-> EmpAge int,

-> EmpZone varchar(255)

-> );

Query OK, 0 rows affected (0.04 sec)

mysql> DESC EMPLOYEE;

+-----------+--------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+-----------+--------------+------+-----+---------+-------+

| EmpID | int | YES | | NULL | |

| FirstName | varchar(255) | YES | | NULL | |

| LastName | varchar(255) | YES | | NULL | |

| EmpAge | int | YES | | NULL | |

| EmpZone | varchar(255) | YES | | NULL | |

+-----------+--------------+------+-----+---------+-------+

5 rows in set (0.01 sec)

mysql> INSERT INTO EMPLOYEE(EmpID,FirstName,LastName,EmpAge,EmpZone) VALUES(2,'Tom','Hanks',25,'South');

Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO EMPLOYEE(EmpID,FirstName,LastName,EmpAge,EmpZone) VALUES(1,'Jack','Sparrow',25,'Nortth');

Query OK, 1 row affected (0.02 sec)

mysql> INSERT INTO EMPLOYEE(EmpID,FirstName,LastName,EmpAge,EmpZone) VALUES(3,'Brad','Pitt',30,'West');

Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO EMPLOYEE(EmpID,FirstName,LastName,EmpAge,EmpZone) VALUES(4,'Emma','Stone',27,'East');

Query OK, 1 row affected (0.01 sec)

mysql> Select \*From Employee;

+-------+-----------+----------+--------+---------+

| EmpID | FirstName | LastName | EmpAge | EmpZone |

+-------+-----------+----------+--------+---------+

| 2 | Tom | Hanks | 25 | South |

| 1 | Jack | Sparrow | 25 | Nortth |

| 3 | Brad | Pitt | 30 | West |

| 4 | Emma | Stone | 27 | East |

+-------+-----------+----------+--------+---------+

**Update Value in EmpZone Column**

mysql> Update Employee SET EmpZone= 'North' WHERE EmpID=1;

Query OK, 1 row affected (0.01 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> Select \*From Employee;

+-------+-----------+----------+--------+---------+

| EmpID | FirstName | LastName | EmpAge | EmpZone |

+-------+-----------+----------+--------+---------+

| 2 | Tom | Hanks | 25 | South |

| 1 | Jack | Sparrow | 25 | North |

| 3 | Brad | Pitt | 30 | West |

| 4 | Emma | Stone | 27 | East |

+-------+-----------+----------+--------+---------+

4 rows in set (0.00 sec)

* **SELECT SINGLE RECORDS FROM A COLUMN**

mysql> Select EmpID From Employee;

+-------+

| EmpID |

+-------+

| 2 |

| 1 |

| 3 |

| 4 |

+-------+

4 rows in set (0.00 sec)

mysql> Select LastName From Employee;

+----------+

| LastName |

+----------+

| Hanks |

| Sparrow |

| Pitt |

| Stone |

+----------+

4 rows in set (0.00 sec)

* **SELECT MULTIPLE RECORDS FROM A COLUMN**

mysql> Select EmpAge ,EmpZone From Employee;

+--------+---------+

| EmpAge | EmpZone |

+--------+---------+

| 25 | South |

| 25 | North |

| 30 | West |

| 27 | East |

+--------+---------+

4 rows in set (0.00 sec)

mysql> Select EmpID,FirstName,LastName From Employee;

+-------+-----------+----------+

| EmpID | FirstName | LastName |

+-------+-----------+----------+

| 2 | Tom | Hanks |

| 1 | Jack | Sparrow |

| 3 | Brad | Pitt |

| 4 | Emma | Stone |

+-------+-----------+----------+

4 rows in set (0.00 sec)