**Primary Key- Foreign Key**

C:\xampp\mysql\bin>mysql.exe -u root

Welcome to the MySQL monitor. Commands end with ; or \g.

Your MySQL connection id is 2

Server version: 5.0.51b-community-nt MySQL Community Edition (GPL)

Type 'help;' or '\h' for help. Type '\c' to clear the buffer.

mysql> show databases;

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

| Database |

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

| information\_schema |

| ambu |

| cdcol |

| employee |

| ems |

| locations |

| mysql |

| phpmyadmin |

| rabros |

| santha |

| sheela |

| student |

| studinfo |

| test |

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

14 rows in set (0.07 sec)

mysql> use santha;

Database changed

**Primary Key**

mysql> create table dept(deptno int(8) not null primary key, dname varchar(30),location varchar(30));

Query OK, 0 rows affected (0.05 sec)

mysql> desc dept;

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

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

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

| deptno | int(8) | NO | PRI | NULL | |

| dname | varchar(30) | YES | | NULL | |

| location | varchar(30) | YES | | NULL | |

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

3 rows in set (0.00 sec)

**Foreign Key**

mysql> create table employ(emp\_id int(8) not null primary key, ename varchar(30),gender varchar(5),dno int(8), foreign key(dno) references dept(deptno));

mysql> desc employ;

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

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

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

| emp\_id | int(8) | NO | PRI | NULL | |

| ename | varchar(30) | YES | | NULL | |

| gender | varchar(5) | YES | | NULL | |

| dno | int(8) | YES | MUL | NULL | |

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

4 rows in set (0.00 sec)

Query OK, 0 rows affected (0.03 sec)

mysql> insert into dept values(1,'purchaase','chennai');

Query OK, 1 row affected (0.00 sec)

mysql> insert into dept values(2,'marketing','london');

Query OK, 1 row affected (0.00 sec)

mysql> insert into dept values(3,'product','mumbai');

Query OK, 1 row affected (0.00 sec)

mysql> insert into employ values(123,'jack','Male',1);

Query OK, 1 row affected (0.00 sec)

mysql> insert into employ values(456,'jhonson','Male',2);

Query OK, 1 row affected (0.00 sec)

mysql> insert into employ values(789,'jemmi','Female',3);

Query OK, 1 row affected, 1 warning (0.00 sec)

mysql> select \* from employ;

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

| emp\_id | ename | gender | dno |

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

| 123 | jack | Male | 1 |

| 456 | jhonson | Male | 2 |

| 789 | jemmi | Femal | 3 |

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

3 rows in set (0.00 sec)

mysql> select \* from dept;

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

| deptno | dname | location |

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

| 1 | purchaase | chennai |

| 2 | marketing | london |

| 3 | product | mumbai |

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

3 rows in set (0.00 sec)

**Join**

mysql> select employ.emp\_id, employ.ename, dept.location from employ,dept where employ.dno=dept.deptno;

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

| emp\_id | ename | location |

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

| 123 | jack | chennai |

| 456 | jhonson | london |

| 789 | jemmi | mumbai |

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

3 rows in set (0.00 sec)

**Inner Join**

mysql> select employ.emp\_id, employ.ename, employ.gender from employ inner join dept on employ.dno=dept.deptno;

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

| emp\_id | ename | gender |

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

| 123 | jack | Male |

| 456 | jhonson | Male |

| 789 | jemmi | Femal |

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

3 rows in set (0.00 sec)

mysql> insert into dept values(4,'order','goa');

Query OK, 1 row affected (0.00 sec)

**Right Join**

mysql> select employ.emp\_id, employ.ename, employ.gender from employ right join dept on employ.dno=dept.deptno;

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

| emp\_id | ename | gender |

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

| 123 | jack | Male |

| 456 | jhonson | Male |

| 789 | jemmi | Femal |

| NULL | NULL | NULL |

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

4 rows in set (0.00 sec)

**Left Join**

mysql> insert into employ(emp\_id,ename,gender) values(234,'jemmi','Female');

Query OK, 1 row affected, 1 warning (0.00 sec)

mysql> select \* from employ;

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

| emp\_id | ename | gender | dno |

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

| 123 | jack | Male | 1 |

| 456 | jhonson | Male | 2 |

| 789 | jemmi | Femal | 3 |

| 234 | jemmi | Femal | NULL |

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

4 rows in set (0.00 sec)

mysql> select employ.emp\_id, employ.ename, employ.gender from employ left join dept on employ.dno=dept.deptno;

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

| emp\_id | ename | gender |

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

| 123 | jack | Male |

| 456 | jhonson | Male |

| 789 | jemmi | Femal |

| 234 | jemmi | Femal |

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

4 rows in set (0.00 sec)