

## Experiment No.: 8

```
mysql> create database stud;
```

```
Query OK, 1 row affected (0.01 sec)
```

```
mysql> use stud;
```

```
Database changed
```

### -Student Table

```
mysql> create table student(rollno int, sname varchar(30), dept  
varchar(10)); Query OK, 0 rows affected (0.03 sec)
```

```
mysql> insert into student values (137, "shubham", "comp");
```

```
Query OK, 1 row affected (0.01 sec)
```

```
mysql> insert into student values (134, "sandeep", "IT");
```

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

```
mysql> insert into student values (130, "niyamat", "civil");
```

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

```
mysql> insert into student values (129, "faizan", "mech");
```

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

```
mysql> insert into student values (140, "vishal", "entc");
```

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

```
mysql> insert into student values (128, "himang", "mech");
```

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

```
mysql> insert into student values (131, "prachi", "comp");
```

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

```
mysql> insert into student values (139, "tanishka", "mech");
```

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

```
mysql> select * from student;
```

```
+-----+-----+-----+  
| rollno | sname | dept |  
+-----+-----+-----+  
| 137 | shubham | comp |  
| 134 | sandeep | IT |  
| 130 | niyamat | civil |  
| 129 | faizan | mech |  
| 140 | vishal | entc |
```

```
| 128 | himang | mech |
| 131 | prachi | comp |
| 139 | tanishka | mech |
+-----+-----+-----+
8 rows in set (0.00 sec)
```

### **-Department Table**

```
mysql> create table department(deptid int, dept varchar(30), hod varchar(30));
```

```
Query OK, 0 rows affected (0.02 sec)
```

```
mysql> insert into department values(1, "comp", "abc");
```

```
Query OK, 1 row affected (0.01 sec)
```

```
mysql> insert into department values(2, "IT", "pqr");
```

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

```
mysql> insert into department values(3, "civil", "mnq");
```

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

```
mysql> insert into department values(4, "mech", "xyz");
```

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

```
mysql> insert into department values(5, "entc", "dhr");
```

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

```
mysql> select * from department;
```

```
+-----+-----+-----+
| deptid | dept | hod |
+-----+-----+-----+
| 1 | comp | abc |
| 2 | IT | pqr |
| 3 | civil | mnq |
| 4 | mech | xyz |
| 5 | entc | dhr |
+-----+-----+-----+
5 rows in set (0.00 sec)
```

### **-CoreSubject Table**

```
mysql> create table coresubject(subjectcode int, subjectname varchar(20), dept varchar(10));
```

```
Query OK, 0 rows affected (0.02 sec)
```

```
mysql> insert into coresubject values(11, "OS", "comp");
Query OK, 1 row affected (0.01 sec)

mysql> insert into coresubject values(12, "CN", "comp");
Query OK, 1 row affected (0.00 sec)

mysql> insert into coresubject values(13, "OOP", "comp");
Query OK, 1 row affected (0.00 sec)

mysql> insert into coresubject values(21, "networking", "IT");
Query OK, 1 row affected (0.00 sec)

mysql> insert into coresubject values(31, "constrution building", "civil");
Query OK, 1 row affected (0.00 sec)

mysql> insert into coresubject values(32, "maths-4", "civil");
Query OK, 1 row affected (0.00 sec)

mysql> insert into coresubject values(41, "tharmodynamics", "mech");
Query OK, 1 row affected (0.00 sec)

mysql> insert into coresubject values(51, "digital communi", "entc");
Query OK, 1 row affected (0.00 sec)

mysql> select * from coresubject;
+-----+-----+-----+
| subjectcode | subjectname | dept |
+-----+-----+-----+
| 11 | OS | comp |
| 12 | CN | comp |
| 13 | OOP | comp |
| 21 | networking | IT |
| 31 | constrution building | civil |
| 32 | maths-4 | civil |
| 41 | tharmodynamics | mech |
| 51 | digital communi | entc |
+-----+-----+-----+
8 rows in set (0.00 sec)
```

#### **-Extracting data of the student who has core subject from his field**

```
mysql> select student.rollno, student.sname, department.deptid, department.dept, coresubject.subjectcode,
coresubject.subjectname from student join department on student.dept = department.dept join coresubject on
department.dept = coresubject.dept;
```

```

+-----+-----+-----+-----+-----+
| rollno | sname | deptid | dept | subjectcode | subjectname | +-----
+-----+-----+-----+-----+-----+
| 131 | Prachi | 1 | comp | 11 | OS |
| 137 | shubham | 1 | comp | 11 | OS |
| 131 | prachi | 1 | comp | 12 | CN |
| 137 | shubham | 1 | comp | 12 | CN |
| 131 | prachi | 1 | comp | 13 | OOP |
| 137 | Shubham | 1 | comp | 13 | OOP |
| 134 | Sandeep | 2 | IT | 21 | networking |
| 130 | niyamat | 3 | civil | 31 | constrution building |
| 130 | niyamat | 3 | civil | 32 | maths-4 |
| 139 | tanishka | 4 | mech | 41 | tharmodynamics |
| 128 | himang | 4 | mech | 41 | tharmodynamics |
| 129 | faizan | 4 | mech | 41 | tharmodynamics |
| 140 | vishal | 5 | entc | 51 | digital communi | +-----+-----+-----
--+-----+-----+-----+

```

13 rows in set (0.00 sec)