```
mysql> show databases;
+----+
| Database
+----+
| information schema |
| mohit
| mysql
| performance schema |
sys
+----+
5 rows in set (0.00 sec)
mysql> use mohit;
Database changed
mysql> CREATE TABLE Students (
         Student ID VARCHAR(10) PRIMARY KEY,
    ->
         Student Name VARCHAR (100),
    ->
         Department VARCHAR (50)
    -> );
Query OK, 0 rows affected (0.04 sec)
mysql> CREATE TABLE Courses (
    ->
         Course ID VARCHAR(10) PRIMARY KEY,
    ->
          Course Name VARCHAR (100),
    ->
         Department VARCHAR (50)
   -> );
Query OK, 0 rows affected (0.03 sec)
mysql> CREATE TABLE Registrations (
   ->
          Reg ID INT AUTO INCREMENT PRIMARY KEY,
    ->
          Student ID VARCHAR (10),
    ->
         Course ID VARCHAR(10),
    ->
          Semester INT,
         FOREIGN KEY (Student ID) REFERENCES
Students (Student ID),
          FOREIGN KEY (Course ID) REFERENCES Courses (Course ID)
    ->
    -> );
Query OK, 0 rows affected (0.08 sec)
mysql> INSERT INTO Students VALUES
    -> ('S101', 'Ravi Kumar', 'CSE'),
   -> ('S102', 'Sita Sharma', 'CSE'),
-> ('S103', 'Amit Verma', 'ECE');
Query OK, 3 rows affected (0.02 sec)
Records: 3 Duplicates: 0 Warnings: 0
mysql> INSERT INTO Courses VALUES
   -> ('CSE101', 'Data Structures', 'CSE'),
    -> ('CSE102', 'DBMS', 'CSE'),
```

Welcome to the MySQL monitor.

```
-> ('ECE201', 'Digital Circuits', 'ECE');
Query OK, 3 rows affected (0.01 sec)
Records: 3 Duplicates: 0 Warnings: 0
mysql> INSERT INTO Registrations (Student ID, Course ID,
Semester) VALUES
   -> ('S101', 'CSE101', 3),
   -> ('S101', 'CSE102', 3),
   -> ('S102', 'CSE101', 3),
   -> ('S103', 'ECE201', 3);
Query OK, 4 rows affected (0.01 sec)
Records: 4 Duplicates: 0 Warnings: 0
mysql> SELECT s.Student Name, c.Course Name, r.Semester
   -> FROM Registrations r
   -> JOIN Students s ON r.Student ID = s.Student ID
   -> JOIN Courses c ON r.Course ID = c.Course ID
   -> WHERE s.Student ID = 'S101';
+----+
| Student Name | Course Name | Semester |
+----+
| Ravi Kumar | DBMS | 3 | +-----
2 rows in set (0.00 sec)
mysql> SELECT c.Course Name, COUNT (r.Student ID) AS
Total Students
   -> FROM Registrations r
   -> JOIN Courses c ON r.Course ID = c.Course ID
   -> GROUP BY c.Course ID, c.Course Name;
+----+
| Course Name | Total Students |
+----+
| Data Structures |
l DBMS
      1
                           1 |
| Digital Circuits |
+----+
3 rows in set (0.00 sec)
mysql> SELECT s.Student Name, c.Course Name, r.Semester
   -> FROM Registrations r
   -> JOIN Students s ON r.Student ID = s.Student ID
   -> JOIN Courses c ON r.Course ID = c.Course ID
   -> WHERE r.Semester = 3;
+----+
| Student Name | Course Name | Semester |
+----+
| Ravi Kumar | Data Structures | 3 |
| Ravi Kumar | DBMS |
| Sita Sharma | Data Structures |
| Amit Verma | Digital Circuits |
```