

## Screenshots:

```
mysql> ^C
mysql> select * from StudentINF;
+-----+-----+-----+-----+-----+
| StudentID | Name | Course | Instructor | InstructorDepartment |
+-----+-----+-----+-----+-----+
| 101 | Alice | Math | John | Science |
| 101 | Alice | Physics | Smith | Science |
| 102 | Bob | Math | John | Science |
| 102 | Bob | Chemistry | Lee | Chemistry |
| 103 | Charlie | Biology | Clark | Biology |
+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> CREATE TABLE Student_Course (
  -> student_id INT,
  -> student_name VARCHAR(50),
  -> course_id INT,
  -> course_name VARCHAR(50),
  -> instructor_name VARCHAR(50)
  -> );
Query OK, 0 rows affected (0.04 sec)

mysql>
mysql> INSERT INTO Student_Course VALUES
  -> (1, 'Alice', 101, 'Maths', 'Mr. Kumar'),
  -> (2, 'Bob', 102, 'Physics', 'Dr. Mehta'),
  -> (3, 'Alice', 102, 'Physics', 'Dr. Mehta'),
  -> (4, 'Charlie', 101, 'Maths', 'Mr. Kumar');
Query OK, 4 rows affected (0.01 sec)
Records: 4 Duplicates: 0 Warnings: 0

mysql> select * from Student_Course (
  -> ;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax t
' at line 1
```

```
mysql> select * from Student_Course (
  -> ;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right sy
' at line 1
mysql> select * from Student_Course;
+-----+-----+-----+-----+-----+
| student_id | student_name | course_id | course_name | instructor_name |
+-----+-----+-----+-----+-----+
| 1 | Alice | 101 | Maths | Mr. Kumar |
| 2 | Bob | 102 | Physics | Dr. Mehta |
| 3 | Alice | 102 | Physics | Dr. Mehta |
| 4 | Charlie | 101 | Maths | Mr. Kumar |
+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)

mysql> -- Not possible:
mysql> INSERT INTO Student_Course (course_id, course_name, instructor_name)
  -> VALUES (103, 'Chemistry', 'Dr. Rao');
Query OK, 1 row affected (0.01 sec)

mysql> select * from Student_Course;
+-----+-----+-----+-----+-----+
| student_id | student_name | course_id | course_name | instructor_name |
+-----+-----+-----+-----+-----+
| 1 | Alice | 101 | Maths | Mr. Kumar |
| 2 | Bob | 102 | Physics | Dr. Mehta |
| 3 | Alice | 102 | Physics | Dr. Mehta |
| 4 | Charlie | 101 | Maths | Mr. Kumar |
| NULL | NULL | 103 | Chemistry | Dr. Rao |
+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> -- Update all Physics rows:
mysql> UPDATE Student_Course
  -> SET instructor_name = 'Dr. Sinha'
  -> WHERE course_name = 'Physics';
Query OK, 2 rows affected (0.01 sec)
Rows matched: 2 Changed: 2 Warnings: 0
```

```
mysql> -- Update all Physics rows:
mysql> UPDATE Student_Course
    -> SET instructor_name = 'Dr. Sinha'
    -> WHERE course_name = 'Physics';
Query OK, 2 rows affected (0.01 sec)
Rows matched: 2  Changed: 2  Warnings: 0

mysql> select * from Student_Course;
+-----+-----+-----+-----+-----+
| student_id | student_name | course_id | course_name | instructor_name |
+-----+-----+-----+-----+-----+
| 1 | Alice | 101 | Maths | Mr. Kumar |
| 2 | Bob | 102 | Physics | Dr. Sinha |
| 3 | Alice | 102 | Physics | Dr. Sinha |
| 4 | Charlie | 101 | Maths | Mr. Kumar |
| NULL | NULL | 103 | Chemistry | Dr. Rao |
+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> DELETE FROM Student_Course WHERE student_id = 4;
Query OK, 1 row affected (0.01 sec)

mysql> select * from Student_Course;
+-----+-----+-----+-----+-----+
| student_id | student_name | course_id | course_name | instructor_name |
+-----+-----+-----+-----+-----+
| 1 | Alice | 101 | Maths | Mr. Kumar |
| 2 | Bob | 102 | Physics | Dr. Sinha |
| 3 | Alice | 102 | Physics | Dr. Sinha |
| NULL | NULL | 103 | Chemistry | Dr. Rao |
+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)

mysql> CREATE TABLE Student (
    ->     student_id INT PRIMARY KEY,
    ->     student_name VARCHAR(50)
    -> );
ERROR 1050 (42S01): Table 'student' already exists
```