

EXPERIMENT NO:-02

➤ CONSTRAINTS(NOT NULL)

```
Command Prompt - mysql -u x + v

mysql> INSERT INTO Stud2 VALUES(01,'Rohit','Pawar',7757006017,'rohit@gmail.com');
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO Stud7 VALUES(02,'deva','chaudhari',7870604517,'deva@gmail.com');
ERROR 1062 (23000): Duplicate entry '2' for key 'stud7.Student_id'
mysql> INSERT INTO Stud2 VALUES(02,'deva','chaudhari',7870604517,'deva@gmail.com');
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO Stud2 VALUES(03,'shri','narhare',7870604517,'shri@gmail.com');
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO Stud2 VALUES(04,'aman','aurangabadi',7870604517,'aman@gmail.com');
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO Stud2 VALUES(,'vishal','paise',7870604517,'vishal@gmail.com');
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 to use near ','vishal','paise',7870604517,'vishal@gmail.com')' at line 1
mysql> SELECT * FROM Stud2;
+-----+-----+-----+-----+-----+
| Student_id | Student_Firstname | Student_Lastname | Student_Phoneno | Student_EmailId |
+-----+-----+-----+-----+-----+
| 1 | Rohit | Pawar | 7757006017 | rohit@gmail.com |
| 2 | deva | chaudhari | 7870604517 | deva@gmail.com |
| 3 | shri | narhare | 7870604517 | shri@gmail.com |
| 4 | aman | aurangabadi | 7870604517 | aman@gmail.com |
+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```

➤ CONSTRAINTS(UNIQUE)

```
Command Prompt - mysql -u x + v

mysql> CREATE TABLE stud7(Student_id int UNIQUE,Student_Firstname char(50),Student_Lastname char(50),Student_Phoneno cha
r(50),Student_EmailId char(50));
Query OK, 0 rows affected (0.05 sec)

mysql> INSERT INTO Stud7 VALUES(01,'Rohit','Pawar',7757006017,'rohit@gmail.com');
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO Stud7 VALUES(01,'deva','chaudhari',7870604517,'deva@gmail.com');
ERROR 1062 (23000): Duplicate entry '1' for key 'stud7.Student_id'
mysql> INSERT INTO Stud7 VALUES(02,'deva','chaudhari',7870604517,'deva@gmail.com');
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO Stud7 VALUES(03,'shri','narhare',7870604517,'shri@gmail.com');
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO Stud7 VALUES(04,'aman','aurangabadi',7870604517,'aman@gmail.com');
Query OK, 1 row affected (0.01 sec)

mysql> SELECT * FROM Stud7;
+-----+-----+-----+-----+-----+
| Student_id | Student_Firstname | Student_Lastname | Student_Phoneno | Student_EmailId |
+-----+-----+-----+-----+-----+
| 1 | Rohit | Pawar | 7757006017 | rohit@gmail.com |
| 2 | deva | chaudhari | 7870604517 | deva@gmail.com |
| 3 | shri | narhare | 7870604517 | shri@gmail.com |
| 4 | aman | aurangabadi | 7870604517 | aman@gmail.com |
+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)

mysql> |
```

➤ CONSTRAINTS(PRIMARY KEY)

```
mysql> CREATE TABLE department(Dept_id int NOT NULL PRIMARY KEY,Dept_Name char(40),Emp_Id int NOT NULL,FOREIGN KEY(Emp_Id)REFERENCE Stud4(Emp_Id));
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 to use near 'R
EFERENCE Stud4(Emp_Id))' at line 1
mysql> CREATE TABLE department(Dept_id int NOT NULL PRIMARY KEY,Dept_Name char(40),Emp_Id int NOT NULL,FOREIGN KEY(Emp_Id)REFERENCES Stud4(Emp_Id));
ERROR 3734 (HY000): Failed to add the foreign key constraint. Missing column 'Emp_Id' for constraint 'department_ibfk_1' in the referenced table 'stud4'
mysql> CREATE TABLE department(Dept_id int NOT NULL PRIMARY KEY,Dept_Name char(40),Emp_Id int NOT NULL,FOREIGN KEY(Emp_Id)REFERENCES Stud4(Student_Id));
Query OK, 0 rows affected (0.03 sec)

mysql> INSERT INTO department VALUES(1,'Computer',101);
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO department VALUES(2,'IT',102);
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO department VALUES(3,'AI',103);
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO department VALUES(4,'AI-ML',104);
Query OK, 1 row affected (0.01 sec)

mysql> SELECT * FROM Department;
+-----+-----+-----+
| Dept_id | Dept_Name | Emp_Id |
+-----+-----+-----+
| 1 | Computer | 101 |
| 2 | IT | 102 |
| 3 | AI | 103 |
| 4 | AI-ML | 104 |
+-----+-----+-----+
4 rows in set (0.00 sec)

+-----+-----+-----+
| Dept_id | Dept_Name | Emp_Id |
+-----+-----+-----+
| 1 | Computer | 101 |
| 2 | IT | 102 |
| 3 | AI | 103 |
| 4 | AI-ML | 104 |
+-----+-----+-----+
5 rows in set (0.00 sec)
```

➤ CONSTRAINTS(FOREGIN KEY)

```
mysql> CREATE TABLE stud4(Student_id int NOT NULL PRIMARY KEY,Emp_name char(50),Emp_salary int);
Query OK, 0 rows affected (0.03 sec)

mysql> INSERT INTO Stud4 VALUES(101,'Kunal',200);
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO Stud4 VALUES(102,'Vishal',700);
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO Stud4 VALUES(103,'Devang',500);
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO Stud4 VALUES(104,'Rohit',100);
Query OK, 1 row affected (0.01 sec)

mysql> SELECT * FROM Stud4;
+-----+-----+-----+
| Student_id | Emp_name | Emp_salary |
+-----+-----+-----+
| 101 | Kunal | 200 |
| 102 | Vishal | 700 |
| 103 | Devang | 500 |
| 104 | Rohit | 100 |
+-----+-----+-----+
4 rows in set (0.00 sec)
```

```
mysql> CREATE TABLE department(Dept_id int NOT NULL PRIMARY KEY,Dept_Name char(40),Emp_Id int NOT NULL,FOREIGN KEY(Emp_Id)REFERENCE Stud4(Emp_Id));
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 to use near 'R
EFERENCE Stud4(Emp_Id))' at line 1
mysql> CREATE TABLE department(Dept_id int NOT NULL PRIMARY KEY,Dept_Name char(40),Emp_Id int NOT NULL,FOREIGN KEY(Emp_Id)REFERENCES Stud4(Emp_Id));
ERROR 3734 (HY000): Failed to add the foreign key constraint. Missing column 'Emp_Id' for constraint 'department_ibfk_1' in the referenced table 'stud4'
mysql> CREATE TABLE department(Dept_id int NOT NULL PRIMARY KEY,Dept_Name char(40),Emp_Id int NOT NULL,FOREIGN KEY(Emp_Id)REFERENCES Stud4(Student_Id));
Query OK, 0 rows affected (0.03 sec)

mysql> INSERT INTO department VALUES(1,'Computer',101);
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO department VALUES(2,'IT',102);
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO department VALUES(3,'AI',103);
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO department VALUES(4,'AI-ML',104);
Query OK, 1 row affected (0.01 sec)

mysql> SELECT * FROM Department;
+-----+-----+-----+
| Dept_id | Dept_Name | Emp_Id |
+-----+-----+-----+
| 1 | Computer | 101 |
| 2 | IT | 102 |
| 3 | AI | 103 |
| 4 | AI-ML | 104 |
+-----+-----+-----+
4 rows in set (0.00 sec)
```