

```
mysql> drop database admin;
Query OK, 2 rows affected (0.03 sec)
```

```
mysql> CREATE DATABASE ADMIN;
Query OK, 1 row affected (0.01 sec)
```

```
mysql> USE ADMIN;
Database changed
```

```
mysql> CREATE TABLE CITY(
    -> CITY_ID INT auto_increment,
    ->     CITY_NAME VARCHAR(30) NOT NULL,
    ->     PRIMARY KEY(CITY_ID)
    -> );
Query OK, 0 rows affected (0.02 sec)
```

```
mysql> DESC CITY
    -> ;
```

Field	Type	Null	Key	Default	Extra
CITY_ID	int	NO	PRI	NULL	auto_increment
CITY_NAME	varchar(30)	NO		NULL	

```
2 rows in set (0.01 sec)
```

```
mysql> INSERT INTO CITY (CITY_NAME) VALUES ('PUNE');
Query OK, 1 row affected (0.01 sec)
```

```
mysql> INSERT INTO CITY (CITY_NAME) VALUES ('DELHI');
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO CITY (CITY_NAME) VALUES ('MUMBAI');
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO CITY (CITY_NAME)
```

```
-> VALUES
```

```
-> ('JAIPUR'),
```

```
-> ('KOLKATA'),
```

```
-> ('SURAT'),
```

```
-> ('CHENNAI'),
```

```
-> ('BHOPAL'),
```

```
-> ('NAGPUR');
```

```
Query OK, 6 rows affected (0.00 sec)
```

```
Records: 6  Duplicates: 0  Warnings: 0
```

```
mysql> CREATE TABLE STUDENT(
```

```
-> STUDENT_ID BIGINT NOT NULL,
```

```
->     STUDENT_NAME VARCHAR(130) NOT NULL,
```

```
->     STUDENT_PHONE BIGINT NOT NULL,
```

```
->     STUDENT_CITY INT
```

```
-> );
```

```
Query OK, 0 rows affected (0.05 sec)
```

```
mysql> DESC STUDENT;
```

Field	Type	Null	Key	Default	Extra
STUDENT_ID	bigint	NO		NULL	
STUDENT_NAME	varchar(130)	NO		NULL	
STUDENT_PHONE	bigint	NO		NULL	
STUDENT_CITY	int	YES		NULL	

```
4 rows in set (0.00 sec)
```

```
mysql> ALTER TABLE STUDENT
```

```
-> ADD FOREIGN KEY(STUDENT_CITY) REFERENCES CITY(CITY_ID);
```

```
Query OK, 0 rows affected (0.07 sec)
```

```
Records: 0  Duplicates: 0  Warnings: 0
```

```
mysql> INSERT INTO STUDENT (STUDENT_ID,STUDENT_NAME,STUDENT_PHONE,STUDENT_CITY) VALUES
(100,'RAKESH SHARMA',1230985674,1);
```

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

```
mysql> INSERT INTO STUDENT (STUDENT_ID,STUDENT_NAME,STUDENT_PHONE,STUDENT_CITY) VALUES
(101,'SUNIL YADAV',4566542347,2);
```

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

```
mysql> INSERT INTO STUDENT (STUDENT_ID,STUDENT_NAME,STUDENT_PHONE,STUDENT_CITY) VALUES
(102,'JASPRIT BUMRA',4562347786,3);
```

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

```
mysql> INSERT INTO STUDENT (STUDENT_ID,STUDENT_NAME,STUDENT_PHONE,STUDENT_CITY) VALUES
(103,'VIRAT KOHLI',1233214560,5);
```

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

```
mysql> INSERT INTO STUDENT (STUDENT_ID,STUDENT_NAME,STUDENT_PHONE,STUDENT_CITY) VALUES
(104,'MAHENDRASINGH DHONI',9876780986,4);
```

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

```
mysql>
```

```
mysql> INSERT INTO STUDENT
(STUDENT_ID,STUDENT_NAME,STUDENT_PHONE,STUDENT_CITY)
```

```
-> VALUES
```

```
-> (105,'MOHAMAD SIRAJ',4562435649,2),
```

```
-> (106,'MOHAMAD SHAMI',2349875679,3),
```

```
-> (107,'HARDIK PANDYA',1233243234,3),
```

```
-> (108,'KUNAL PANDYA',12332234325,4);
```

```
Query OK, 4 rows affected (0.00 sec)
```

```
Records: 4 Duplicates: 0 Warnings: 0
```

```
===== 1 INNER JOIN
=====
```

```
mysql> SELECT * FROM STUDENT INNER JOIN CITY
```

```
-> ON STUDENT.STUDENT_CITY = CITY.CITY_ID;
```

STUDENT_ID	STUDENT_NAME	STUDENT_PHONE	STUDENT_CITY	CITY_ID	CITY_NAME
100	RAKESH SHARMA	1230985674	1	1	PUNE
101	SUNIL YADAV	4566542347	2	2	DELHI
102	JASPRIT BUMRA	4562347786	3	3	MUMBAI
103	VIRAT KOHLI	1233214560	5	5	KOLKATA
104	MAHENDRASINGH DHONI	9876780986	4	4	JAIPUR
105	MOHAMAD SIRAJ	4562435649	2	2	DELHI
106	MOHAMAD SHAMI	2349875679	3	3	MUMBAI
107	HARDIK PANDYA	1233243234	3	3	MUMBAI
108	KUNAL PANDYA	12332234325	4	4	JAIPUR

9 rows in set (0.00 sec)

===== 2.RIGHT JOIN
=====

```
mysql> SELECT S.STUDENT_ID,S.STUDENT_NAME,C.CITY_ID FROM STUDENT S RIGHT JOIN CITY C
      -> ON S.STUDENT_CITY = C.CITY_ID;
```

STUDENT_ID	STUDENT_NAME	CITY_ID
100	RAKESH SHARMA	1
101	SUNIL YADAV	2
105	MOHAMAD SIRAJ	2
102	JASPRIT BUMRA	3
106	MOHAMAD SHAMI	3
107	HARDIK PANDYA	3
104	MAHENDRASINGH DHONI	4
108	KUNAL PANDYA	4
103	VIRAT KOHLI	5
NULL	NULL	6
NULL	NULL	7
NULL	NULL	8
NULL	NULL	9

13 rows in set (0.00 sec)

```
===== 3.LEFT JOIN
=====
```

```
mysql> SELECT S.STUDENT_ID,S.STUDENT_NAME,C.CITY_ID FROM STUDENT S LEFT JOIN CITY C
      -> ON S.STUDENT_CITY = C.CITY_ID;
```

STUDENT_ID	STUDENT_NAME	CITY_ID
100	RAKESH SHARMA	1
101	SUNIL YADAV	2
102	JASPRIT BUMRA	3
103	VIRAT KOHLI	5
104	MAHENDRASINGH DHONI	4
105	MOHAMAD SIRAJ	2
106	MOHAMAD SHAMI	3
107	HARDIK PANDYA	3
108	KUNAL PANDYA	4

9 rows in set (0.00 sec)