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)