



D Y PATIL INTERNATIONAL UNIVERSITY

SYSTEMS SOFTWARE

SEMESTER-IV

EXPERIMENT-6

Name : Neeraj Chormale

PRN : 20220802071

Div : A2

- **Aim:** To create the two tables and perform the JOIN commands on the tables.
- **Problem Statement:** Create 2 tables and perform all the types of joint.
- **Software Used:** MySQL command line client
- **Source Code/experiment description:**

STEP-1 : create database school and use it

```
mysql> show databases;
+-----+
| Database |
+-----+
| dypiu    |
| information_schema |
| mysql    |
| performance_schema |
| restaurent |
| sys      |
+-----+
6 rows in set (0.11 sec)

mysql> create database school;
Query OK, 1 row affected (0.02 sec)

mysql> use school;
Database changed
mysql>
```

STEP-2 : create table orders and customers

```
mysql> use school;
Database changed
mysql> create table orders(
-> orderid int,
-> customerid int,
-> orderdate date);
Query OK, 0 rows affected (0.06 sec)

mysql> create table customers(
-> customerid int,
-> c_name varchar(50),
-> country varchar(50));
Query OK, 0 rows affected (0.03 sec)

mysql>
```

STEP-3 : Insert values in the respective tables

```
mysql> insert into orders
-> values (001,2001,"2022-10-08"),
-> (002,2002,"2022-10-09"),
-> (003,2003,"2022-01-07"),
-> (004,2004,"2023-11-08"),
-> (005,2005,"2022-10-12");
Query OK, 5 rows affected (0.03 sec)
Records: 5 Duplicates: 0 Warnings: 0

mysql> insert into customers
-> values (2001,'Neeraj Chormale','India'),
-> (2002,'Onkar Yaglewad','Japan'),
-> (2003,'Kiran Biradar','Canada'),
-> (2003,'Manas Shetty','Bangladesh');
Query OK, 4 rows affected (0.01 sec)
Records: 4 Duplicates: 0 Warnings: 0

mysql>
```

STEP-4 : Show the respected table using select command

```
mysql> select * from orders;
+-----+-----+-----+
| orderid | customerid | orderdate |
+-----+-----+-----+
| 1 | 2001 | 2022-10-08 |
| 2 | 2002 | 2022-10-09 |
| 3 | 2003 | 2022-01-07 |
| 4 | 2004 | 2023-11-08 |
| 5 | 2005 | 2022-10-12 |
+-----+-----+-----+
5 rows in set (0.01 sec)

mysql> select * from customers;
+-----+-----+-----+
| customerid | c_name | country |
+-----+-----+-----+
| 2001 | Neeraj Chormale | India |
| 2002 | Onkar Yaglewad | Japan |
| 2003 | Kiran Biradar | Canada |
| 2003 | Manas Shetty | Bangladesh |
+-----+-----+-----+
4 rows in set (0.00 sec)

mysql>
```

STEP-5 : INNER JOIN

```
mysql> SELECT orders.orderid, customers.c_name, orders.orderdate
-> FROM orders
-> INNER JOIN customers ON orders.customerid=customers.customerid;
+-----+-----+-----+
| orderid | c_name      | orderdate |
+-----+-----+-----+
| 1       | Neeraj Chormale | 2022-10-08 |
| 2       | Onkar Yaglewad  | 2022-10-09 |
| 3       | Manas Shetty   | 2022-01-07 |
| 3       | Kiran Biradar   | 2022-01-07 |
+-----+-----+-----+
4 rows in set (0.00 sec)
```

STEP-6 : LEFT JOIN

```
mysql> SELECT customers.c_name, orders.orderid
-> FROM customers
-> LEFT JOIN orders on customers.customerid = orders.customerid
-> order by customers.c_name;
+-----+-----+
| c_name      | orderid |
+-----+-----+
| Kiran Biradar | 3       |
| Manas Shetty  | 3       |
| Neeraj Chormale | 1       |
| Onkar Yaglewad | 2       |
+-----+-----+
4 rows in set (0.01 sec)

mysql> |
```

STEP-7 : RIGHT JOIN

```
mysql> SELECT orders.orderid, customers.c_name
-> FROM orders
-> RIGHT JOIN customers on orders.customerid = customers.customerid
-> order by orders.orderid;
+-----+-----+
| orderid | c_name      |
+-----+-----+
| 1       | Neeraj Chormale |
| 2       | Onkar Yaglewad  |
| 3       | Kiran Biradar   |
| 3       | Manas Shetty   |
+-----+-----+
4 rows in set (0.00 sec)

mysql>
```

STEP-8 : CROSS JOIN

```
mysql> SELECT orders.orderid, customers.c_name from orders CROSS JOIN customers;
```

orderid	c_name
1	Manas Shetty
1	Kiran Biradar
1	Onkar Yaglewad
1	Neeraj Chormale
2	Manas Shetty
2	Kiran Biradar
2	Onkar Yaglewad
2	Neeraj Chormale
3	Manas Shetty
3	Kiran Biradar
3	Onkar Yaglewad
3	Neeraj Chormale
4	Manas Shetty
4	Kiran Biradar
4	Onkar Yaglewad
4	Neeraj Chormale
5	Manas Shetty
5	Kiran Biradar
5	Onkar Yaglewad
5	Neeraj Chormale

```
20 rows in set (0.00 sec)

mysql>
```

STEP-9 : SELF JOIN

```
mysql> SELECT o.orderid, c.c_name, c.country from orders o, customers c where o.customerid=c.customerid;
```

orderid	c_name	country
1	Neeraj Chormale	India
2	Onkar Yaglewad	Japan
3	Manas Shetty	Bangladesh
3	Kiran Biradar	Canada

```
4 rows in set (0.00 sec)

mysql> |
```

Result: The given queries were implemented using MySQL.