

```
mysql> use mydb;
```

```
Database changed
```

```
mysql> select * from tbl_employee;
```

```
+-----+-----+-----+-----+
| id  | name  | salary | dno  |
+-----+-----+-----+-----+
| 101 | Domnic | 3000   | 10   |
+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

```
mysql> select * from tbl_employee1;
```

```
+-----+-----+-----+-----+
| id  | name  | salary | dno  |
+-----+-----+-----+-----+
| 101 | Domnic | 3000   | 10   |
| 102 | Dev    | 3000   | 20   |
| 103 | Shiva  | 3000   | 20   |
| 104 | Purush | 3000   | 10   |
| 105 | Mahesh | 2000   | 20   |
+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

```
mysql> select dno,count(*) from tbl_employee1 group by dno;
```

```
+-----+-----+
| dno  | count(*) |
+-----+-----+
| 10   | 2        |
| 20   | 3        |
+-----+-----+
2 rows in set (0.00 sec)
```

```
mysql> select dno,count(*) from tbl_employee1 group by dno having
min(salary)=3000;
```

```
+-----+-----+
| dno  | count(*) |
+-----+-----+
| 10   | 2        |
+-----+-----+
1 row in set (0.00 sec)
```

```
mysql> select name from tbl_employee1;
```

```
+-----+
| name  |
+-----+
| Domnic |
```

```

| Dev      |
| Shiva    |
| Purush   |
| Mahesh   |
+-----+
5 rows in set (0.00 sec)

```

```

mysql> select upper(name) from tbl_employee;
+-----+
| upper(name) |
+-----+
| DOMNIC      |
+-----+
1 row in set (0.00 sec)

```

```

mysql> select upper(name) from tbl_employee1;
+-----+
| upper(name) |
+-----+
| DOMNIC      |
| DEV         |
| SHIVA       |
| PURUSH      |
| MAHESH      |
+-----+
5 rows in set (0.00 sec)

```

```

mysql> create view myview as select * from tbl_employee1 where dno=10;
Query OK, 0 rows affected (0.01 sec)

```

```

mysql> select * from Myview;
+-----+-----+-----+-----+
| id  | name  | salary | dno  |
+-----+-----+-----+-----+
| 101 | Domnic | 3000   | 10   |
| 104 | Purush | 3000   | 10   |
+-----+-----+-----+-----+
2 rows in set (0.01 sec)

```

```

mysql> update myview set salary =7000 where id=101;
Query OK, 1 row affected (0.01 sec)
Rows matched: 1  Changed: 1  Warnings: 0

```

**mysql> select \* from Myview;**

```
+-----+-----+-----+-----+
| id  | name   | salary | dno  |
+-----+-----+-----+-----+
| 101 | Domnic | 7000   | 10   |
| 104 | Purush | 3000   | 10   |
+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

**mysql> select \* from tbl\_employee1;**

```
+-----+-----+-----+-----+
| id  | name   | salary | dno  |
+-----+-----+-----+-----+
| 101 | Domnic | 7000   | 10   |
| 102 | Dev    | 3000   | 20   |
| 103 | Shiva  | 3000   | 20   |
| 104 | Purush | 3000   | 10   |
| 105 | Mahesh | 2000   | 20   |
+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

**mysql> update tbl\_employee1 set salary=4500 where id=104;**

Query OK, 1 row affected (0.00 sec)

Rows matched: 1 Changed: 1 Warnings: 0

**mysql> select \* from tbl\_employee1;**

```
+-----+-----+-----+-----+
| id  | name   | salary | dno  |
+-----+-----+-----+-----+
| 101 | Domnic | 7000   | 10   |
| 102 | Dev    | 3000   | 20   |
| 103 | Shiva  | 3000   | 20   |
| 104 | Purush | 4500   | 10   |
| 105 | Mahesh | 2000   | 20   |
+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

**mysql> select \* from Myview;**

```
+-----+-----+-----+-----+
| id  | name   | salary | dno  |
+-----+-----+-----+-----+
| 101 | Domnic | 7000   | 10   |
| 104 | Purush | 4500   | 10   |
+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

Query OK, 0 rows affected (0.04 sec)

**mysql> insert into agents values('A101','agent1','chennai');**

Query OK, 1 row affected (0.01 sec)

**mysql> insert into agents values('A102','agent2','chennai');**

Query OK, 1 row affected (0.01 sec)

**mysql> insert into agents values('A103','agent3','bangalore');**

Query OK, 1 row affected (0.01 sec)

**mysql> insert into agents values('A104','agent4','bangalore');**

Query OK, 1 row affected (0.01 sec)

**mysql> select \* from agents;**

```
+-----+-----+-----+
| AGENT_CODE | AGENT_NAME | WORKING_AREA |
+-----+-----+-----+
| A101      | agent1     | chennai      |
| A102      | agent2     | chennai      |
| A103      | agent3     | bangalore     |
| A104      | agent4     | bangalore     |
+-----+-----+-----+
4 rows in set (0.00 sec)
```

**mysql> create table customers(CUSTOMER\_CODE VARCHAR(4),CUSTOMER\_NAME VARCHAR(10),CUSTOMER\_AREA VARCHAR(15));**

Query OK, 0 rows affected (0.03 sec)

**mysql> insert into CUSTOMERS values ('C101','customer1','chennai');**

Query OK, 1 row affected (0.01 sec)

**mysql> insert into CUSTOMERS values ('C102','customer2','chennai');**

Query OK, 1 row affected (0.00 sec)

**mysql> insert into CUSTOMERS values ('C103','customer3','chennai');**

Query OK, 1 row affected (0.01 sec)

**mysql> insert into CUSTOMERS values ('C104','customer4','bangalore');**

Query OK, 1 row affected (0.01 sec)

**mysql> insert into CUSTOMERS values ('C105','customer5','bangalore');**

Query OK, 1 row affected (0.01 sec)

**mysql> select \* from customers;**

```

+-----+-----+-----+
| CUSTOMER_CODE | CUSTOMER_NAME | CUSTOMER_AREA |
+-----+-----+-----+
| C101          | customer1     | chennai       |
| C102          | customer2     | chennai       |
| C103          | customer3     | chennai       |
| C104          | customer4     | bangalore     |
| C105          | customer5     | bangalore     |
+-----+-----+-----+
5 rows in set (0.00 sec)

```

**mysql> select \* from agents;**

```

+-----+-----+-----+
| AGENT_CODE | AGENT_NAME | WORKING_AREA |
+-----+-----+-----+
| A101       | agent1     | chennai      |
| A102       | agent2     | chennai      |
| A103       | agent3     | bangalore    |
| A104       | agent4     | bangalore    |
+-----+-----+-----+
4 rows in set (0.00 sec)

```

**mysql> select  
agents.agent\_code,agents.agent\_name,customers.customer\_name from  
agents,customers where agents.working\_area=customers.customer\_area;**

```

+-----+-----+-----+
| agent_code | agent_name | customer_name |
+-----+-----+-----+
| A102       | agent2     | customer1     |
| A101       | agent1     | customer1     |
| A102       | agent2     | customer2     |
| A101       | agent1     | customer2     |
| A102       | agent2     | customer3     |
| A101       | agent1     | customer3     |
| A104       | agent4     | customer4     |
| A103       | agent3     | customer4     |
| A104       | agent4     | customer5     |
| A103       | agent3     | customer5     |
+-----+-----+-----+
10 rows in set (0.00 sec)

```

**mysql> select  
agents.agent\_code,agents.agent\_name,customers.customer\_name from  
agents,customers where agents.working\_area=customers.customer\_area  
order by agent\_code;**

```

+-----+-----+-----+
| agent_code | agent_name | customer_name |
+-----+-----+-----+
| A101       | agent1     | customer1     |
| A101       | agent1     | customer2     |
| A101       | agent1     | customer3     |
| A102       | agent2     | customer1     |
| A102       | agent2     | customer2     |
| A102       | agent2     | customer3     |
| A103       | agent3     | customer4     |
| A103       | agent3     | customer5     |
| A104       | agent4     | customer4     |
| A104       | agent4     | customer5     |
+-----+-----+-----+
10 rows in set (0.00 sec)

```

```

mysql> select a.agent_code,a.agent_name,c.customer_name from agents
a,customers c where a.working_area=c.customer_area order by
agent_code;

```

```

+-----+-----+-----+
| agent_code | agent_name | customer_name |
+-----+-----+-----+
| A101       | agent1     | customer1     |
| A101       | agent1     | customer2     |
| A101       | agent1     | customer3     |
| A102       | agent2     | customer1     |
| A102       | agent2     | customer2     |
| A102       | agent2     | customer3     |
| A103       | agent3     | customer4     |
| A103       | agent3     | customer5     |
| A104       | agent4     | customer4     |
| A104       | agent4     | customer5     |
+-----+-----+-----+
10 rows in set (0.00 sec)

```

```

mysql> select a.agent_code,a.agent_name,c.customer_name from agents a
join customers c on a.working_area=c.customer_area order by
agent_code;

```

```

+-----+-----+-----+
| agent_code | agent_name | customer_name |
+-----+-----+-----+
| A101       | agent1     | customer1     |
| A101       | agent1     | customer2     |
| A101       | agent1     | customer3     |
| A102       | agent2     | customer1     |

```

|      |        |           |
|------|--------|-----------|
| A102 | agent2 | customer2 |
| A102 | agent2 | customer3 |
| A103 | agent3 | customer4 |
| A103 | agent3 | customer5 |
| A104 | agent4 | customer4 |
| A104 | agent4 | customer5 |

10 rows in set (0.00 sec)

```
mysql> select a.agent_code,a.agent_name,c.customer_name from agents a
inner join customers c on a.working_area!=c.customer_area order by
agent_code;
```

| agent_code | agent_name | customer_name |
|------------|------------|---------------|
| A101       | agent1     | customer4     |
| A101       | agent1     | customer5     |
| A102       | agent2     | customer4     |
| A102       | agent2     | customer5     |
| A103       | agent3     | customer1     |
| A103       | agent3     | customer2     |
| A103       | agent3     | customer3     |
| A104       | agent4     | customer1     |
| A104       | agent4     | customer2     |
| A104       | agent4     | customer3     |

10 rows in set (0.00 sec)

```
mysql> insert into agents values ('A105','agent5','dubai');
```

Query OK, 1 row affected (0.01 sec)

```
mysql> insert into customers values ('C106','customer6','Malasiya');
```

Query OK, 1 row affected (0.01 sec)

```
mysql> select a.agent_code,a.agent_name,c.customer_name from agents a
left outer join customers c on a.working_area=c.customer_area order by
agent_code;
```

| agent_code | agent_name | customer_name |
|------------|------------|---------------|
| A101       | agent1     | customer3     |
| A101       | agent1     | customer2     |
| A101       | agent1     | customer1     |
| A102       | agent2     | customer3     |
| A102       | agent2     | customer2     |

|      |        |           |
|------|--------|-----------|
| A102 | agent2 | customer1 |
| A103 | agent3 | customer5 |
| A103 | agent3 | customer4 |
| A104 | agent4 | customer5 |
| A104 | agent4 | customer4 |
| A105 | agent5 | NULL      |

11 rows in set (0.00 sec)

```
mysql> select a.agent_code,a.agent_name,c.customer_name from agents a
right outer join customers c on a.working_area=c.customer_area order
by agent_code;
```

| agent_code | agent_name | customer_name |
|------------|------------|---------------|
| NULL       | NULL       | customer6     |
| A101       | agent1     | customer1     |
| A101       | agent1     | customer2     |
| A101       | agent1     | customer3     |
| A102       | agent2     | customer1     |
| A102       | agent2     | customer2     |
| A102       | agent2     | customer3     |
| A103       | agent3     | customer4     |
| A103       | agent3     | customer5     |
| A104       | agent4     | customer4     |
| A104       | agent4     | customer5     |

11 rows in set (0.00 sec)

```
mysql> select * from agents cross join customers;
```

| AGENT_CODE | AGENT_NAME | WORKING_AREA | CUSTOMER_CODE | CUSTOMER_NAME | CUSTOMER_AREA |
|------------|------------|--------------|---------------|---------------|---------------|
| A105       | agent5     | dubai        | C101          | customer1     | chennai       |
| A104       | agent4     | bangalore    | C101          | customer1     | chennai       |
| A103       | agent3     | bangalore    | C101          | customer1     | chennai       |
| A102       | agent2     | chennai      | C101          | customer1     | chennai       |
| A101       | agent1     | chennai      | C101          | customer1     | chennai       |
| A105       | agent5     | dubai        | C102          | customer2     | chennai       |
| A104       | agent4     | bangalore    | C102          | customer2     | chennai       |
| A103       | agent3     | bangalore    | C102          | customer2     | chennai       |
| A102       | agent2     | chennai      | C102          | customer2     | chennai       |
| A101       | agent1     | chennai      | C102          | customer2     | chennai       |
| A105       | agent5     | dubai        | C103          | customer3     | chennai       |
| A104       | agent4     | bangalore    | C103          | customer3     | chennai       |
| A103       | agent3     | bangalore    | C103          | customer3     | chennai       |
| A102       | agent2     | chennai      | C103          | customer3     | chennai       |
| A101       | agent1     | chennai      | C103          | customer3     | chennai       |
| A105       | agent5     | dubai        | C104          | customer4     | bangalore     |
| A104       | agent4     | bangalore    | C104          | customer4     | bangalore     |
| A103       | agent3     | bangalore    | C104          | customer4     | bangalore     |



|      |        |           |      |           |           |  |
|------|--------|-----------|------|-----------|-----------|--|
| A102 | agent2 | chennai   | C104 | customer4 | bangalore |  |
| A101 | agent1 | chennai   | C104 | customer4 | bangalore |  |
| A105 | agent5 | dubai     | C105 | customer5 | bangalore |  |
| A104 | agent4 | bangalore | C105 | customer5 | bangalore |  |
| A103 | agent3 | bangalore | C105 | customer5 | bangalore |  |
| A102 | agent2 | chennai   | C105 | customer5 | bangalore |  |
| A101 | agent1 | chennai   | C105 | customer5 | bangalore |  |
| A105 | agent5 | dubai     | C106 | customer6 | Malasiya  |  |
| A104 | agent4 | bangalore | C106 | customer6 | Malasiya  |  |
| A103 | agent3 | bangalore | C106 | customer6 | Malasiya  |  |
| A102 | agent2 | chennai   | C106 | customer6 | Malasiya  |  |
| A101 | agent1 | chennai   | C106 | customer6 | Malasiya  |  |

```

+-----+-----+-----+-----+-----+-----+
30 rows in set (0.00 sec)

```