Employee Name : - PravinKumar RajaSahayam
Employee Id : - 11946
Day - 4

MYSQL : -


```
mysql> create database mysqlday4;
Query OK, 1 row affected (0.01 sec)

mysql> use mysqlday4;
Database changed
mysql> create table tbl_employee1 (
    -> eid int(5),
    -> ename varchar(10),
    -> esalary int(15),
    -> edeptno int(56)
    -> );
Query OK, 0 rows affected, 3 warnings (0.04 sec)

mysql> show tables;
+---------------------+
| Tables_in_mysqlday4 |
+---------------------+
| tbl_employee1       |
+---------------------+
1 row in set (0.01 sec)

mysql> desc tbl_employee1;
+---------+-------------+------+-----+---------+-------+
| Field   | Type        | Null | Key | Default | Extra |
+---------+-------------+------+-----+---------+-------+
| eid     | int         | YES  |     | NULL    |       |
| ename   | varchar(10) | YES  |     | NULL    |       |
| esalary | int         | YES  |     | NULL    |       |
| edeptno | int         | YES  |     | NULL    |       |
+---------+-------------+------+-----+---------+-------+
4 rows in set (0.00 sec)

mysql> insert into tbl_employee1 values (101,'Pravins',1000,10);
Query OK, 1 row affected (0.01 sec)
```

```
mysql> insert into tbl_employee1 values(102,'Pravins',2000,20);
Query OK, 1 row affected (0.01 sec)

mysql> insert into tbl_employee1 values(103,'Pravins',3000,30);
Query OK, 1 row affected (0.01 sec)

mysql> insert into tbl_employee1 values(104,'Pravins',4000,404);
Query OK, 1 row affected (0.01 sec)

mysql> insert into tbl_employee1 values(105,'Pravins',5000,550);
Query OK, 1 row affected (0.01 sec)

mysql> select * from tbl_employee1;
+------+---------+---------+---------+
| eid  | ename   | esalary | edeptno |
+------+---------+---------+---------+
|  101 | Pravins |    1000 |      10 |
|  102 | Pravins |    2000 |      20 |
|  103 | Pravins |    3000 |      30 |
|  104 | Pravins |    4000 |     404 |
|  105 | Pravins |    5000 |     550 |
+------+---------+---------+---------+
5 rows in set (0.00 sec)

mysql> select edeptno , count(*) from tbl_employee1 group by edeptno;
+---------+----------+
| edeptno | count(*) |
+---------+----------+
|      10 |        1 |
|      20 |        1 |
|      30 |        1 |
|     404 |        1 |
|     550 |        1 |
+---------+----------+
5 rows in set (0.00 sec)

mysql> select edeptno , count(*) from tbl_employee1 group by edeptno having min(esalary = 3000);
+---------+----------+
| edeptno | count(*) |
+---------+----------+
|      30 |        1 |
+---------+----------+
1 row in set (0.00 sec)
```

```
mysql> select ename from tbl_employee1;
+---------+
| ename   |
+---------+
| Pravins |
| Pravins |
| Pravins |
| Pravins |
| Pravins |
+---------+
5 rows in set (0.00 sec)

mysql> select upper(ename) from tbl_employee1;
+--------------+
| upper(ename) |
+--------------+
| PRAVINS      |
| PRAVINS      |
| PRAVINS      |
| PRAVINS      |
| PRAVINS      |
+--------------+
5 rows in set (0.00 sec)

mysql> select lower(ename) from tbl_employee1;
+--------------+
| lower(ename) |
+--------------+
| pravins      |
| pravins      |
| pravins      |
| pravins      |
| pravins      |
+--------------+
5 rows in set (0.00 sec)

mysql> create view myview as select * from tbl_employee1 where edeptno = 10 ;
Query OK, 0 rows affected (0.03 sec)

mysql> show tables;
+---------------------+
| Tables_in_mysqlday4 |
+---------------------+
```

| myview |
| tbl_employee1 |
+--------------------+
2 rows in set (0.00 sec)

mysql> select * from myview;
+------+---------+---------+---------+
| eid | ename | esalary | edeptno |
+------+---------+---------+---------+
| 101 | Pravins | 1000 | 10 |
+------+---------+---------+---------+
1 row in set (0.00 sec)

mysql> desc myview;
+---------+-------------+------+-----+---------+-------+
| Field | Type | Null | Key | Default | Extra |
+---------+-------------+------+-----+---------+-------+
eid	int	YES		NULL	
ename	varchar(10)	YES		NULL	
esalary	int	YES		NULL	
edeptno	int	YES		NULL	
+---------+-------------+------+-----+---------+-------+
4 rows in set (0.00 sec)

mysql> update myview set esalary = 73000 where eid = 101;
Query OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> select * from myview;
+------+---------+---------+---------+
| eid | ename | esalary | edeptno |
+------+---------+---------+---------+
| 101 | Pravins | 73000 | 10 |
+------+---------+---------+---------+
1 row in set (0.00 sec)

mysql> select * from tbl_employee1;
+------+---------+---------+---------+
| eid | ename | esalary | edeptno |
+------+---------+---------+---------+
101	Pravins	73000	10
102	Pravins	2000	20
103	Pravins	3000	30
104	Pravins	4000	404

```
|  105 | Pravins |    5000 |     550 |
+------+---------+---------+---------+
5 rows in set (0.00 sec)

mysql> update tbl_employee1 set esalary = null where edeptno = 10;
Query OK, 1 row affected (0.00 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> select * from myview;
+------+---------+---------+---------+
| eid  | ename   | esalary | edeptno |
+------+---------+---------+---------+
|  101 | Pravins |    NULL |      10 |
+------+---------+---------+---------+
1 row in set (0.00 sec)

mysql> select * from tbl_employee1;
+------+---------+---------+---------+
| eid  | ename   | esalary | edeptno |
+------+---------+---------+---------+
|  101 | Pravins |    NULL |      10 |
|  102 | Pravins |    2000 |      20 |
|  103 | Pravins |    3000 |      30 |
|  104 | Pravins |    4000 |     404 |
|  105 | Pravins |    5000 |     550 |
+------+---------+---------+---------+
5 rows in set (0.00 sec)

mysql> desc tbl_employee1;
+---------+-------------+------+-----+---------+-------+
| Field   | Type        | Null | Key | Default | Extra |
+---------+-------------+------+-----+---------+-------+
| eid     | int         | YES  |     | NULL    |       |
| ename   | varchar(10) | YES  |     | NULL    |       |
| esalary | int         | YES  |     | NULL    |       |
| edeptno | int         | YES  |     | NULL    |       |
+---------+-------------+------+-----+---------+-------+
4 rows in set (0.00 sec)

mysql> select * from tbl_employee1;
+------+---------+---------+---------+
| eid  | ename   | esalary | edeptno |
+------+---------+---------+---------+
|  101 | Pravins |    NULL |      10 |
```

```
|  102 | Pravins |   2000 |    20 |
|  103 | Pravins |   3000 |    30 |
|  104 | Pravins |   4000 |   404 |
|  105 | Pravins |   5000 |   550 |
+------+---------+---------+---------+
5 rows in set (0.00 sec)

mysql> desc myview;
+---------+-------------+------+-----+---------+-------+
| Field   | Type        | Null | Key | Default | Extra |
+---------+-------------+------+-----+---------+-------+
| eid     | int         | YES  |     | NULL    |       |
| ename   | varchar(10) | YES  |     | NULL    |       |
| esalary | int         | YES  |     | NULL    |       |
| edeptno | int         | YES  |     | NULL    |       |
+---------+-------------+------+-----+---------+-------+
4 rows in set (0.00 sec)

mysql> select * from tbl_employee1;
+------+---------+---------+---------+
| eid  | ename   | esalary | edeptno |
+------+---------+---------+---------+
|  101 | Pravins |   NULL  |    10 |
|  102 | Pravins |   2000 |    20 |
|  103 | Pravins |   3000 |    30 |
|  104 | Pravins |   4000 |   404 |
|  105 | Pravins |   5000 |   550 |
+------+---------+---------+---------+
5 rows in set (0.00 sec)

mysql> create table tbl_customers (
    -> customer_code int(5),
    -> customer_name varchar(13),
    -> customer_area varchar(19)
    -> );
Query OK, 0 rows affected, 1 warning (0.03 sec)

mysql> select * from tbl_customers;
Empty set (0.00 sec)

mysql> desc tbl_customers;
+---------------+-------------+------+-----+---------+-------+
| Field         | Type        | Null | Key | Default | Extra |
+---------------+-------------+------+-----+---------+-------+
```

```
| customer_code | int       | YES |   | NULL   |     |
| customer_name | varchar(13) | YES |   | NULL   |     |
| customer_area | varchar(19) | YES |   | NULL   |     |
+---------------+-------------+------+-----+---------+-------+
3 rows in set (0.00 sec)

mysql> show tables;
+---------------------+
| Tables_in_mysqlday4 |
+---------------------+
| myview              |
| tbl_customers       |
| tbl_employee1       |
+---------------------+
3 rows in set (0.00 sec)

mysql> alter table tbl_customers modify customer_code varchar(16);
Query OK, 0 rows affected (0.07 sec)
Records: 0  Duplicates: 0  Warnings: 0

mysql> insert into tbl_customers values ('C101','customer1','chennai');
Query OK, 1 row affected (0.01 sec)

mysql> insert into tbl_customers values ('C102','customer2','chennai');
Query OK, 1 row affected (0.01 sec)

mysql> insert into tbl_customers values ('C103','customer3','chennai');
Query OK, 1 row affected (0.02 sec)

mysql> insert into tbl_customers values ('C104','customer4','Bangalore');
Query OK, 1 row affected (0.01 sec)

mysql> insert into tbl_customers values ('C105','customer5','Bangalore');
Query OK, 1 row affected (0.01 sec)

mysql> select * from tbl_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> create table tbl_agents (
    -> agent_code varchar(16),
    -> agent_name varchar(16),
    -> working_area varchar(16)
    -> );
Query OK, 0 rows affected (0.05 sec)

mysql> select * from tbl_agents;
Empty set (0.00 sec)

mysql> desc tbl_agents;
+--------------+-------------+------+-----+---------+-------+
| Field        | Type        | Null | Key | Default | Extra |
+--------------+-------------+------+-----+---------+-------+
| agent_code   | varchar(16) | YES  |     | NULL    |       |
| agent_name   | varchar(16) | YES  |     | NULL    |       |
| working_area | varchar(16) | YES  |     | NULL    |       |
+--------------+-------------+------+-----+---------+-------+
3 rows in set (0.00 sec)

mysql> show tables;
+---------------------+
| Tables_in_mysqlday4 |
+---------------------+
| myview              |
| tbl_agents          |
| tbl_customers       |
| tbl_employee1       |
+---------------------+
4 rows in set (0.00 sec)

mysql> insert into tbl_agents values ('A101','agent1','chennai');
Query OK, 1 row affected (0.02 sec)

mysql> insert into tbl_agents values ( 'A102','agent2','chennai');
Query OK, 1 row affected (0.01 sec)

mysql> insert into tbl_agents values ('A103','agent3','Bangalore');
Query OK, 1 row affected (0.00 sec)

mysql> insert into tbl_agents values ('A104','agent4','Bangalore');
```

Query OK, 1 row affected (0.01 sec)

```
mysql> select * from tbl_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 tbl_agents.agent_name,tbl_agents.agent_code,tbl_customers.customer_name
from tbl_agents,tbl_customers where tbl_agents.working_area = tbl_customers.customer_area ;
+------------+------------+---------------+
| agent_name | agent_code | customer_name |
+------------+------------+---------------+
| agent2     | A102       | customer1     |
| agent1     | A101       | customer1     |
| agent2     | A102       | customer2     |
| agent1     | A101       | customer2     |
| agent2     | A102       | customer3     |
| agent1     | A101       | customer3     |
| agent4     | A104       | customer4     |
| agent3     | A103       | customer4     |
| agent4     | A104       | customer5     |
| agent3     | A103       | customer5     |
+------------+------------+---------------+
10 rows in set (0.01 sec)
```

```
mysql> select a.agent_name,a.agent_code,c.customer_name from tbl_agents a,tbl_customers
c where a.working_area = c.customer_area;
+------------+------------+---------------+
| agent_name | agent_code | customer_name |
+------------+------------+---------------+
| agent2     | A102       | customer1     |
| agent1     | A101       | customer1     |
| agent2     | A102       | customer2     |
| agent1     | A101       | customer2     |
| agent2     | A102       | customer3     |
| agent1     | A101       | customer3     |
| agent4     | A104       | customer4     |
| agent3     | A103       | customer4     |
```

```
| agent4    | A104    | customer5    |
| agent3    | A103    | customer5    |
+------------+------------+---------------+
10 rows in set (0.00 sec)

mysql> select a.agent_name,a.agent_code,c.customer_name from tbl_agents a join
tbl_customers c on a.working_area = c.customer_area;
+------------+------------+---------------+
| agent_name | agent_code | customer_name |
+------------+------------+---------------+
| agent2    | A102    | customer1    |
| agent1    | A101    | customer1    |
| agent2    | A102    | customer2    |
| agent1    | A101    | customer2    |
| agent2    | A102    | customer3    |
| agent1    | A101    | customer3    |
| agent4    | A104    | customer4    |
| agent3    | A103    | customer4    |
| agent4    | A104    | customer5    |
| agent3    | A103    | customer5    |
+------------+------------+---------------+
10 rows in set (0.00 sec)

mysql> select a.agent_name,a.agent_code,c.customer_name from tbl_agents a inner join
tbl_customers c on a.working_area = c.customer_area;
+------------+------------+---------------+
| agent_name | agent_code | customer_name |
+------------+------------+---------------+
| agent2    | A102    | customer1    |
| agent1    | A101    | customer1    |
| agent2    | A102    | customer2    |
| agent1    | A101    | customer2    |
| agent2    | A102    | customer3    |
| agent1    | A101    | customer3    |
| agent4    | A104    | customer4    |
| agent3    | A103    | customer4    |
| agent4    | A104    | customer5    |
| agent3    | A103    | customer5    |
+------------+------------+---------------+
10 rows in set (0.00 sec)

mysql> insert into tbl_agents values ('A150','agent5','Kolkata');
Query OK, 1 row affected (0.01 sec)
```

```
mysql> insert into tbl_customers values ('C106','customer6','Delhi');
Query OK, 1 row affected (0.00 sec)

mysql> select * from tbl_agents;
+------------+------------+--------------+
| agent_code | agent_name | working_area |
+------------+------------+--------------+
| A101       | agent1     | chennai      |
| A102       | agent2     | chennai      |
| A103       | agent3     | Bangalore    |
| A104       | agent4     | Bangalore    |
| A150       | agent5     | Kolkata      |
+------------+------------+--------------+
5 rows in set (0.00 sec)

mysql> select * from tbl_customers;
+---------------+---------------+---------------+
| customer_code | customer_name | customer_area |
+---------------+---------------+---------------+
| C101          | customer1     | chennai       |
| C102          | customer2     | chennai       |
| C103          | customer3     | chennai       |
| C104          | customer4     | Bangalore     |
| C105          | customer5     | Bangalore     |
| C106          | customer6     | Delhi         |
+---------------+---------------+---------------+
6 rows in set (0.00 sec)

mysql> select * from tbl_agents a left outer join tbl_customers c  on a.working_area =
c.customer_area;
+------------+------------+--------------+---------------+---------------+---------------+
| agent_code | agent_name | working_area | customer_code | customer_name | customer_area |
+------------+------------+--------------+---------------+---------------+---------------+
| A101       | agent1     | chennai      | C103          | customer3     | chennai       |
| A101       | agent1     | chennai      | C102          | customer2     | chennai       |
| A101       | agent1     | chennai      | C101          | customer1     | chennai       |
| A102       | agent2     | chennai      | C103          | customer3     | chennai       |
| A102       | agent2     | chennai      | C102          | customer2     | chennai       |
| A102       | agent2     | chennai      | C101          | customer1     | chennai       |
| A103       | agent3     | Bangalore    | C105          | customer5     | Bangalore     |
| A103       | agent3     | Bangalore    | C104          | customer4     | Bangalore     |
| A104       | agent4     | Bangalore    | C105          | customer5     | Bangalore     |
| A104       | agent4     | Bangalore    | C104          | customer4     | Bangalore     |
```

```
| A150      | agent5    | Kolkata     | NULL        | NULL       | NULL      |
+------------+------------+-------------+--------------+--------------+--------------+
11 rows in set (0.00 sec)

mysql> select * from tbl_agents a right outer join tbl_customers c on   a.working_area =
c.customer_area;
+------------+------------+-------------+--------------+--------------+--------------+
| agent_code | agent_name | working_area | customer_code | customer_name | customer_area
|
+------------+------------+-------------+--------------+--------------+--------------+
| A102      | agent2    | chennai     | C101        | customer1    | chennai    |
| A101      | agent1    | chennai     | C101        | customer1    | chennai    |
| A102      | agent2    | chennai     | C102        | customer2    | chennai    |
| A101      | agent1    | chennai     | C102        | customer2    | chennai    |
| A102      | agent2    | chennai     | C103        | customer3    | chennai    |
| A101      | agent1    | chennai     | C103        | customer3    | chennai    |
| A104      | agent4    | Bangalore   | C104        | customer4    | Bangalore  |
| A103      | agent3    | Bangalore   | C104        | customer4    | Bangalore  |
| A104      | agent4    | Bangalore   | C105        | customer5    | Bangalore  |
| A103      | agent3    | Bangalore   | C105        | customer5    | Bangalore  |
| NULL      | NULL      | NULL        | C106        | customer6    | Delhi      |
+------------+------------+-------------+--------------+--------------+--------------+
11 rows in set (0.00 sec)

mysql> select * from tbl_agents cross join tbl_customers;
+------------+------------+-------------+--------------+--------------+--------------+
| agent_code | agent_name | working_area | customer_code | customer_name | customer_area
|
+------------+------------+-------------+--------------+--------------+--------------+
| A150      | agent5    | Kolkata     | 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    |
| A150      | agent5    | Kolkata     | 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    |
| A150      | agent5    | Kolkata     | 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    |
```

```
| A150      | agent5    | Kolkata      | 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      |
| A150      | agent5    | Kolkata      | 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      |
| A150      | agent5    | Kolkata      | C106          | customer6      | Delhi          |
| A104      | agent4    | Bangalore    | C106          | customer6      | Delhi          |
| A103      | agent3    | Bangalore    | C106          | customer6      | Delhi          |
| A102      | agent2    | chennai      | C106          | customer6      | Delhi          |
| A101      | agent1    | chennai      | C106          | customer6      | Delhi          |
+------------+-----------+-------------+--------------+--------------+---------------+
30 rows in set (0.00 sec)

mysql>
```