05/10/2023

```
mysql> use mydb;
Database changed
mysql> show tables;
+-----------------+
| Tables_in_mydb  |
+-----------------+
| countries       |
| dup_countries   |
| job_history     |
| jobs            |
| students        |
| tbl_dept        |
| tbl_employee    |
| tbl_employee1   |
| tbl_employee2   |
| tbl_student     |
+-----------------+
10 rows in set (0.00 sec)

mysql> select * from employee1;
ERROR 1146 (42S02): Table 'mydb.employee1' doesn't exist
mysql> select * from tbl_employee1;
+-----+--------+---------+------+
| eid | ename  | esalary | dno  |
+-----+--------+---------+------+
| 101 | Jeban  |    3000 |   10 |
| 102 | Naveen |    4000 |   10 |
| 103 | Vikram |    5000 |   20 |
| 104 | Mac    |    6000 |   20 |
| 105 | Rex    |    7000 |   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)
```

View :

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

```
mysql> select * from myview;
+-----+--------+---------+------+
| eid | ename  | esalary | dno  |
+-----+--------+---------+------+
| 101 | Jeban  |   70000 |   10 |
| 102 | Naveen |    4000 |   10 |
+-----+--------+---------+------+
2 rows in set (0.00 sec)
```

```
mysql> update myview set esalary = 7000 where eid=101;
Query OK, 1 row affected (0.00 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

```
mysql> select * from myview;
+-----+--------+---------+------+
| eid | ename  | esalary | dno  |
+-----+--------+---------+------+
| 101 | Jeban  |    7000 |   10 |
| 102 | Naveen |    4000 |   10 |
+-----+--------+---------+------+
2 rows in set (0.00 sec)
```

```
mysql> select * from tbl_employee1;
+-----+--------+---------+------+
| eid | ename  | esalary | dno  |
+-----+--------+---------+------+
```

```
| 101 | Jeban  |   7000 |  10 |
| 102 | Naveen |   4000 |  10 |
| 103 | Vikram |   5000 |  20 |
| 104 | Mac    |   6000 |  20 |
| 105 | Rex    |   7000 |  20 |
+-----+--------+---------+------+
5 rows in set (0.00 sec)
```

mysql> update tbl_employee1 set esalary=8000 where eid=102;
Query OK, 1 row affected (0.00 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> select * from tbl_employee1;
```
+-----+--------+---------+------+
| eid | ename  | esalary | dno  |
+-----+--------+---------+------+
| 101 | Jeban  |   7000 |  10 |
| 102 | Naveen |   8000 |  10 |
| 103 | Vikram |   5000 |  20 |
| 104 | Mac    |   6000 |  20 |
| 105 | Rex    |   7000 |  20 |
+-----+--------+---------+------+
5 rows in set (0.00 sec)
```

mysql> select * from myview;
```
+-----+--------+---------+------+
| eid | ename  | esalary | dno  |
+-----+--------+---------+------+
| 101 | Jeban  |   7000 |  10 |
| 102 | Naveen |   8000 |  10 |
+-----+--------+---------+------+
2 rows in set (0.00 sec)
```

mysql> update tbl_employee1 set esalary=null where dno=10;
Query OK, 2 rows affected (0.00 sec)
Rows matched: 2 Changed: 2 Warnings: 0

```
mysql> select * from myview;
+-----+--------+---------+------+
| eid | ename  | esalary | dno  |
+-----+--------+---------+------+
| 101 | Jeban  |   NULL  |  10  |
| 102 | Naveen |   NULL  |  10  |
+-----+--------+---------+------+
2 rows in set (0.00 sec)
```

Joins:

```
mysql> create table tbl_agents(Agent_Code varchar(20),Agent_Name
varchar(20),Working_area varchar(20));
Query OK, 0 rows affected (0.02 sec)

mysql> insert into tbl_agents values('A101','agent1','Chennai');
Query OK, 1 row affected (0.00 sec)

mysql> insert into tbl_agents values('A102','agent2','Chennai');
Query OK, 1 row affected (0.00 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 (0.00 sec)

mysql> select * from tbl_agents;
+------------+------------+--------------+
| Agent_Code | Agent_Name | Working_area |
+------------+------------+--------------+
| A101       | agent1     | Chennai      |
| A102       | agent2     | Chennai      |
| A103       | agent3     | Bangalore    |
| A104       | agent4     | Bangalore    |
+------------+------------+--------------+
4 rows in set (0.00 sec)
```

```
mysql> create table tbl_customers(Customer_Code
varchar(20),Customer_Name varchar(20),Customer_area varchar(20));
Query OK, 0 rows affected (0.01 sec)

mysql> insert into tbl_customer values('C101','customer1','Chennai');
ERROR 1146 (42S02): Table 'mydb.tbl_customer' doesn't exist
mysql> insert into tbl_customers values('C101','customer1','Chennai');
Query OK, 1 row affected (0.00 sec)

mysql> insert into tbl_customers values('C102','customer2','Chennai');
Query OK, 1 row affected (0.00 sec)

mysql> insert into tbl_customers values('C103','customer3','Chennai');
Query OK, 1 row affected (0.00 sec)

mysql> insert into tbl_customers values('C104','customer4','Bangalore');
Query OK, 1 row affected (0.00 sec)

mysql> insert into tbl_customers values('C105','customer5','Bangalore');
Query OK, 1 row affected (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     |
+---------------+---------------+---------------+
5 rows in set (0.00 sec)


mysql> select
tbl_agents.Agent_Code,tbl_agents.Agent_Name,tbl_customers.Customer_Na
me from tbl_agents,tbl_customers  where Working_area = 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
tbl_agents.Agent_Code,tbl_agents.Agent_Name,tbl_customers.Customer_Na
me from tbl_agents,tbl_customers  where Working_area = Customer_area
order by asc;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual
that corresponds to your MySQL server version for the right syntax to use near
'asc' at line 1
mysql> select
tbl_agents.Agent_Code,tbl_agents.Agent_Name,tbl_customers.Customer_Na
me from tbl_agents,tbl_customers  where Working_area = Customer_area
order by;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual
that corresponds to your MySQL server version for the right syntax to use near ''
at line 1
mysql> select a.Agent_Code,a.Agent_Name,c.Customer_Name from tbl_agents
a,tbl_customers c  where a.Working_area =c.Customer_area order by;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual
that corresponds to your MySQL server version for the right syntax to use near ''
at line 1
mysql> select a.Agent_Code,a.Agent_Name,c.Customer_Name from tbl_agents
a,tbl_customers c  where a.Working_area =c.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 a.Agent_Code,a.Agent_Name,c.Customer_Name from tbl_agents
a join tbl_cutomers c on a.Working_area=c.Customer_area;
ERROR 1146 (42S02): Table 'mydb.tbl_cutomers' doesn't exist
mysql> select a.Agent_Code,a.Agent_Name,c.Customer_Name from tbl_agents
a join tbl_customers c on a.Working_area=c.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 a.Agent_Code,a.Agent_Name,c.Customer_Name from tbl_agents
a inner join tbl_customers c on a.Working_area=c.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> insert into tbl_agents values('A105','agent5','Mumbai');
Query OK, 1 row affected (0.00 sec)

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

mysql> select a.Agent_Code,a.Agent_Name,c.Customer_Name from tbl_agents
a inner join tbl_customers c on a.Working_area=c.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 * 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
A105	agent5	Mumbai	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	Kolkatha
+------------+-----------+-------------+-------------+-------------+--------------+
11 rows in set (0.00 sec)

mysql> select *from tbl_agents cross join customers;
ERROR 1146 (42S02): Table 'mydb.customers' doesn't exist
mysql> select * from tbl_agents cross join tbl_customers;
+------------+-----------+-------------+-------------+-------------+--------------+
| Agent_Code | Agent_Name | Working_area | Customer_Code | Customer_Name | Customer_area |
+------------+-----------+-------------+-------------+-------------+--------------+
A105	agent5	Mumbai	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	Mumbai	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	Mumbai	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	Mumbai	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	Mumbai	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	Mumbai	C106	customer6	Kolkatha
A104	agent4	Bangalore	C106	customer6	Kolkatha
A103	agent3	Bangalore	C106	customer6	Kolkatha
A102	agent2	Chennai	C106	customer6	Kolkatha
A101	agent1	Chennai	C106	customer6	Kolkatha
+------------+------------+-------------+--------------+--------------+---------------+

30 rows in set (0.00 sec)