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Command Prompt - mysql -u root -p

mysql> show databases;
+-----+
| Database |
+-----+
| database1 |
| database2 |
| geetanshah |
| information_schema |
| mysql |
| performance_schema |
| student |
| student_info |
| sys |
| tcoddb |
+-----+
10 rows in set (0.00 sec)

mysql> use database1;
Database changed
mysql> show tables;
+-----+
| Tables_in_database1 |
+-----+
| persons |
| testtable |
+-----+
2 rows in set (0.01 sec)

mysql> create table _master(product_no int,description varchar(20),profit_per float,unit_measure varchar(10),quantity int,reorder int,sell_price float,cost_price float,primary_key(product_no));
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 '(product_no))' at line 1
mysql> create table _master(product_no int,description varchar(20),profit_per float,unit_measure varchar(10),quantity int,reorder int,sell_price float,cost_price float,primary_key int);
Query OK, 0 rows affected (0.04 sec)
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mysql> create table customer(cust_no int,cust_name varchar(20),cust_add
-> varchar(20),phone_no int,primary key(cust_no));
Query OK, 0 rows affected (0.03 sec)

mysql> create table capital(cap_no int,cap_name varchar(20),state_no
-> int,primary key(cap_no));
Query OK, 0 rows affected (0.04 sec)

mysql> create table state(state_no int,state_name varchar(20),state_code
-> int,capital varchar(20),primary key(state_no));
Query OK, 0 rows affected (0.04 sec)

mysql> insert into capital values('01','MH','01');
Query OK, 1 row affected (0.01 sec)

mysql> insert into capital values('02','RAJ','02');
Query OK, 1 row affected (0.01 sec)

mysql> insert into capital values('03','GOA','03');
Query OK, 1 row affected (0.01 sec)

mysql> insert into capital values('04','GUJ','04');
Query OK, 1 row affected (0.01 sec)

mysql> insert into capital values('05','KAR','05');
Query OK, 1 row affected (0.01 sec)

mysql> insert into state values('01','MH','01','MUM');
Query OK, 1 row affected (0.01 sec)

mysql> insert into state values('02','RAJ','02','JAI');
Query OK, 1 row affected (0.01 sec)

mysql> insert into state values('03','GOA','03','PAN');
Query OK, 1 row affected (0.01 sec)

mysql> insert into state values('04','GUJ','04','SUR');
Query OK, 1 row affected (0.01 sec)
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mysql> select * from capital;
+-----+-----+-----+
| cap_no | cap_name | state_no |
+-----+-----+-----+
|      1 | MH      |      1   |
|      2 | RAJ     |      2   |
|      3 | GOA     |      3   |
|      4 | GUJ     |      4   |
|      5 | KAR     |      5   |
+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> select * from state;
+-----+-----+-----+-----+
| state_no | state_name | state_code | capital |
+-----+-----+-----+-----+
|      1   | MH        |      1     | MUM     |
|      2   | RAJ       |      2     | JAI     |
|      3   | GOA       |      3     | PAN     |
|      4   | GUJ       |      4     | SUR     |
|      5   | KAR       |      5     | BAN     |
+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> select capital.cap_no, state.state_no from capital inner join sta
te on
    -> capital.cap_no=state.state_no;
+-----+-----+
| cap_no | state_no |
+-----+-----+
|      1 |      1   |
|      2 |      2   |
|      3 |      3   |
|      4 |      4   |
|      5 |      5   |
+-----+-----+
5 rows in set (0.00 sec)

mysql> UPDATE state SET state_no="78" where state_no='1';
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mysql> UPDATE state SET state_no="78" where state_no='1';
Query OK, 1 row affected (0.01 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> UPDATE state SET state_no="58" where state_no='2';
Query OK, 1 row affected (0.01 sec)
Rows matched: 1  Changed: 1  Warnings: 0
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Command Prompt - mysql -u root -p

mysql> UPDATE state SET state_no="46" where state_no='3';
Query OK, 1 row affected (0.01 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> UPDATE state SET state_no="489" where state_no='4';
Query OK, 1 row affected (0.01 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> UPDATE state SET state_no="458" where state_no='5';
Query OK, 1 row affected (0.01 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> insert into state values('05','MP','05','BHO');
Query OK, 1 row affected (0.01 sec)

mysql> select capital.cap_no, state.state_no from capital inner join state on
-> capital.cap_no=state.state_no;
+-----+-----+
| cap_no | state_no |
+-----+-----+
|      5 |      5 |
+-----+-----+
1 row in set (0.01 sec)

mysql> select capital.cap_no, state.state_no from capital left join state on
-> capital.cap_no=state.state_no;
+-----+-----+
| cap_no | state_no |
+-----+-----+
|      1 |      NULL |
|      2 |      NULL |
|      3 |      NULL |
|      4 |      NULL |
|      5 |      5 |
+-----+-----+
5 rows in set (0.00 sec)

mysql> select capital.cap_no, state.state_no from capital left join state on
-> capital.cap_no=state.state_name;
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Select Command Prompt - mysql -u root -p

+-----+-----+
| cap_no | state_no |
+-----+-----+
|      1 |      NULL |
|      2 |      NULL |
|      3 |      NULL |
|      4 |      NULL |
|      5 |      NULL |
+-----+-----+
5 rows in set, 4 warnings (0.01 sec)

mysql> select capital.cap_no, state.state_no from capital right join state on
-> capital.cap_no=state.state_no;

+-----+-----+
| cap_no | state_no |
+-----+-----+
|      5 |      5 |
|    NULL |     46 |
|    NULL |     58 |
|    NULL |     78 |
|    NULL |    458 |
|    NULL |    489 |
+-----+-----+
6 rows in set (0.00 sec)

mysql> select * from capital;

+-----+-----+-----+
| cap_no | cap_name | state_no |
+-----+-----+-----+
|      1 | MH      |      1 |
|      2 | RAJ     |      2 |
|      3 | GOA     |      3 |
|      4 | GUJ     |      4 |
|      5 | KAR     |      5 |
+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> select * from state;
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+

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Select Command Prompt - mysql -u root -p
mysql> select * from state;
+-----+-----+-----+-----+
| state_no | state_name | state_code | capital |
+-----+-----+-----+-----+
| 5 | MP | 5 | BHO |
| 46 | GOA | 3 | PAN |
| 58 | RAJ | 2 | JAI |
| 78 | MH | 1 | MUM |
| 458 | KAR | 5 | BAN |
| 489 | GUJ | 4 | SUR |
+-----+-----+-----+-----+
6 rows in set (0.00 sec)

mysql> select * from capital;
+-----+-----+-----+
| cap_no | cap_name | state_no |
+-----+-----+-----+
| 1 | MH | 1 |
| 2 | RAJ | 2 |
| 3 | GOA | 3 |
| 4 | GUJ | 4 |
| 5 | KAR | 5 |
+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> select capital.cap_no, state.state_no from capital inner join state on
-> capital.cap_no=state.state_no;
+-----+-----+
| cap_no | state_no |
+-----+-----+
| 5 | 5 |
+-----+-----+
1 row in set (0.00 sec)

mysql> select capital.cap_no,capital.cap_name,state.capital,state.state_no from
-> capital inner join state on capital.cap_no=state.state_no;
+-----+-----+-----+-----+
| cap_no | cap_name | capital | state_no |
+-----+-----+-----+-----+
```

```
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+-----+-----+-----+-----+
| cap_no | cap_name | capital | state_no |
+-----+-----+-----+-----+
|      5 | KAR      | BHO     |      5   |
+-----+-----+-----+-----+
1 row in set (0.00 sec)

mysql> select capital.cap_no,capital.cap_name,state.capital,state.state_no
-> from capital left join state on capital.cap_no=state.state_no;
+-----+-----+-----+-----+
| cap_no | cap_name | capital | state_no |
+-----+-----+-----+-----+
|      1 | MH       | NULL    | NULL     |
|      2 | RAJ      | NULL    | NULL     |
|      3 | GOA      | NULL    | NULL     |
|      4 | GUJ      | NULL    | NULL     |
|      5 | KAR      | BHO     |      5   |
+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> select capital.cap_no,capital.cap_name,state.capital,state.state_no
-> from capital right join state on capital.cap_no=state.state_no;
+-----+-----+-----+-----+
| cap_no | cap_name | capital | state_no |
+-----+-----+-----+-----+
|      5 | KAR      | BHO     |      5   |
| NULL   | NULL     | PAN     |      46  |
| NULL   | NULL     | JAI     |      58  |
| NULL   | NULL     | MUM     |      78  |
| NULL   | NULL     | BAN     |     458  |
| NULL   | NULL     | SUR     |     489  |
+-----+-----+-----+-----+
6 rows in set (0.00 sec)

mysql> select capital.cap_no,capital.cap_name,state.capital,state.state_no from
-> capital left join state on capital.cap_no=state.state_no union
-> select capital.cap_no,capital.cap_name,state.capital,state.state_no from ca
pital
-> right join state on capital.cap_no=state.state_no; 
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Select Command Prompt - mysql -u root -p
mysql> select * from state where state_no=(select state_no from state where
-> state_name='MH');
+-----+-----+-----+-----+
| state_no | state_name | state_code | capital |
+-----+-----+-----+-----+
|      78 | MH        |          1 | MUM     |
+-----+-----+-----+-----+
1 row in set (0.00 sec)

mysql> select * from state where state_no=(select state_no from state where
-> state_name='GUJ');
+-----+-----+-----+-----+
| state_no | state_name | state_code | capital |
+-----+-----+-----+-----+
|     489 | GUJ        |          4 | SUR     |
+-----+-----+-----+-----+
1 row in set (0.00 sec)

mysql> select * from state where state_no=(select capital.state_no from capital
-> where cap_name='MH');
Empty set (0.00 sec)

mysql> select * from state where state_no=(select capital.state_no from capital
-> where cap_name='GUJ');
Empty set (0.00 sec)

mysql> select * from state where state_no=(select capital.state_no from capital
-> where cap_name='RAJ');
Empty set (0.00 sec)

mysql> select * from state where state_no=(select capital.state_no from capital
-> where cap_name='KAR');
+-----+-----+-----+-----+
| state_no | state_name | state_code | capital |
+-----+-----+-----+-----+
|         5 | MP         |          5 | BHO     |
+-----+-----+-----+-----+
1 row in set (0.00 sec)
```