

Maryams-MacBook-Pro:~ maryamtaherzadeh\$ ssh 19529tm@npu1.npu.edu

Password:

Password:

Last login: Thu Sep 5 15:39:56 2019 from 172.19.0.35

[19529tm@npu1 ~]\$ mysql -u CS457\_19529 -p

Enter password:

**Welcome to the MariaDB monitor. Commands end with ; or \g.**

**Your MariaDB connection id is 166**

**Server version: 10.4.7-MariaDB MariaDB Server**

**Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.**

**Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.**

MariaDB [(none)]> use npudb1

Reading table information for completion of table and column names

You can turn off this feature to get a quicker startup with -A

**Database changed**

MariaDB [npudb1]> use npudb1

**Database changed**

MariaDB [npudb1]> CREATE TABLE STATION

(ID INTEGER PRIMARY KEY,

CITY CHAR(20),

STATE CHAR(2),

LAT\_N REAL,

LONG\_W REAL);

ERROR 1050 (42S01): Table 'STATION

' already exists

MariaDB [npudb1]> drop table station;

**Query OK, 0 rows affected (0.190 sec)**

MariaDB [npudb1]> create table station1

-> (id integer primary key,

-> city char(20),

-> state char(2),

-> lat\_n real,

-> long\_w real);

**Query OK, 0 rows affected (0.236 sec)**

MariaDB [npudb1]> insert into station1 values (13, 'Phoenix', 'AZ', 33, 112);

**Query OK, 1 row affected (0.034 sec)**

MariaDB [npudb1]> insert into station1 values( 44, 'Denver', 'CO', 40, 105);

insert into station1 values (44, 'Denver', 'CO', 40, 105)' at line 1  
MariaDB [npudb1]> MariaDB [npudb1]> select \*from station1;

id	city	state	lat_n	long_w
13	Phoenix	AZ	33	112

1 row in set (0.000 sec)

MariaDB [npudb1]> insert into station1 values (44, 'Denver', 'CO', 40, 105);  
Query OK, 1 row affected (0.053 sec)

MariaDB [npudb1]> select \*from station1;

id	city	state	lat_n	long_w
13	Phoenix	AZ	33	112
44	Denver	CO	40	105

2 rows in set (0.000 sec)

MariaDB [npudb1]> insert into station1 values(66, 'Caribou', 'ME', 47, 68);  
Query OK, 1 row affected (0.050 sec)

MariaDB [npudb1]> select \*from station1;

id	city	state	lat_n	long_w
13	Phoenix	AZ	33	112
44	Denver	CO	40	105
66	Caribou	ME	47	68

3 rows in set (0.001 sec)

MariaDB [npudb1]> select \*from station1 where lat\_n>39.7;

id	city	state	lat_n	long_w
44	Denver	CO	40	105
66	Caribou	ME	47	68

2 rows in set (0.000 sec)

```
MariaDB [npudb1]> select id,city,state from station1;
```

id	city	state
13	Phoenix	AZ
44	Denver	CO
66	Caribou	ME

3 rows in set (0.000 sec)

```
MariaDB [npudb1]> create table w_stats
```

```
-> (id integer references STATION(id),
-> month integer check (month between 1 and 12),
-> max_temp_f real,
-> min_temp_f real,
-> average_temp_f real,
-> max_rain_i real,
-> min_rain_i real,
-> average_rain_i real,
-> primary key(id, month));
```

```
MariaDB [npudb1]> select *from w_stats;
```

id	month	max_temp_f	min_temp_f	average_temp_f	max_rain_i	min_rain_i	average_rain_i
13	6	80.7	67.9	76	1.78	1.09	1.35
44	7	83	68.7	75.8	1.08	0.39	1.095
66	8	79	72	75	1.25	0.65	0.925

3 rows in set (0.000 sec)

```
MariaDB [npudb1]> select*from station1,w_stats
```

```
-> where station1.id=w_stats.id;
```

id	city	state	lat_n	long_w	id	month	max_temp_f	min_temp_f	average_temp_f	max_rain_i	min_rain_i	average_rain_i
----	------	-------	-------	--------	----	-------	------------	------------	----------------	------------	------------	----------------

13	Phoenix	AZ	33	112	13	6	80.7
67.9		76	1.78		1.09		1.35
44	Denver	CO	40	105	44	7	83
68.7		75.8	1.08		0.39		1.095
66	Caribou	ME	47	68	66	8	79
72		75	1.25		0.65		0.925

--	--	--	--	--	--	--	--

3 rows in set (0.001 sec)

```
MariaDB [npudb1]> select month,id,max_rain_i
-> from w_stats
-> order by month,max_rain_i desc;
```

month	id	max_rain_i
6	13	1.78
7	44	1.08
8	66	1.25

3 rows in set (0.000 sec)

```
MariaDB [npudb1]> select max_temp_f,min_temp_f,average_temp_f,id
-> from w_stats
-> group by id;
```

max_temp_f	min_temp_f	average_temp_f	id
80.7	67.9	76	13
83	68.7	75.8	44
79	72	75	66

3 rows in set (0.000 sec)

```
MariaDB [npudb1]> select* from station1
-> where 50<(select average_temp_f from w_stats
-> where station1.id=w_stats.id);
```

id	city	state	lat_n	long_w
13	Phoenix	AZ	33	112
44	Denver	CO	40	105
66	Caribou	ME	47	68

+-----+  
**3 rows in set (0.001 sec)**

MariaDB [npudb1]> select \*from METRIC\_STATS ;

ID	MONTH	(TEMP_F - 32) * 5 / 9	RAIN_I * 0.3937
13	1	14.111111111111111	0.122047
13	7	33.166666666666664	2.027555
44	1	-2.611111111111111	0.070866
44	7	23.777777777777778	0.830707
66	1	-14.055555555555555	0.82677
66	7	18.777777777777778	1.7795239999999999

**6 rows in set (0.000 sec)**

]> select \*from METRIC\_STATS  
-> where

MariaDB [npudb1]> UPDATE STATS SET RAIN\_I = RAIN\_I + 0.01;

**Query OK, 6 rows affected (0.043 sec)**

**Rows matched: 6 Changed: 6 Warnings: 0**

MariaDB [npudb1]> SELECT \* FROM STATS;

ID	MONTH	TEMP_F	RAIN_I
13	1	57.4	0.32
13	7	91.7	5.16
44	1	27.3	0.19
44	7	74.8	2.1199999999999997
66	1	6.7	2.11
66	7	65.8	4.5299999999999999

**6 rows in set (0.000 sec)**

MariaDB [npudb1]> UPDATE STATS SET TEMP\_F=74.9

-> WHERE ID=44

-> AND MONTH=7;

**Query OK, 1 row affected (0.056 sec)**

**Rows matched: 1 Changed: 1 Warnings: 0**

MariaDB [npudb1]> SELECT \* FROM STATS;

ID	MONTH	TEMP_F	RAIN_I
13	1	57.4	0.32
13	7	91.7	5.16

44	1	27.3	0.19
44	7	74.9	2.1199999999999997
66	1	6.7	2.11
66	7	65.8	4.529999999999999

6 rows in set (0.000 sec)

```
MariaDB [npudb1]> update w_stats set min_temp_f=80
-> where id=44
-> and month=6;
```

**Query OK, 0 rows affected (0.000 sec)**

**Rows matched: 0 Changed: 0 Warnings: 0**

```
MariaDB [npudb1]> select* from w_stats;
```

id	month	max_temp_f	min_temp_f	average_temp_f	max_rain_i	min_rain_i	average_rain_i
13	6	80.7	67.9	76	1.78	1.09	1.35
44	7	83	68.7	75.8	1.08	0.39	1.095
66	8	79	72	75	1.25	0.65	0.925

3 rows in set (0.000 sec)

```
MariaDB [npudb1]> commit work;
```

**Query OK, 0 rows affected (0.000 sec)**

```
MariaDB [npudb1]> update w_stats set max_rain_i=4.50
-> where id=13;
```

**Query OK, 1 row affected (0.054 sec)**

**Rows matched: 1 Changed: 1 Warnings: 0**

```
MariaDB [npudb1]> select* from w_stats;
```

id	month	max_temp_f	min_temp_f	average_temp_f	max_rain_i	min_rain_i	average_rain_i
13	6	80.7	67.9	76	4.5	1.09	1.35
44	7	83	68.7	75.8	1.08	0.39	1.095

66	8	79	72	75	1.25
0.65		0.925			

3 rows in set (0.000 sec)

MariaDB [npudb1]> rollback work;  
**Query OK, 0 rows affected (0.000 sec)**

MariaDB [npudb1]> select\* from w\_stats;

id	month	max_temp_f	min_temp_f	average_temp_f	max_rain_i	min_rain_i	average_rain_i
13	6	80.7	67.9	76	4.5	1.09	1.35
44	7	83	68.7	75.8	1.08	0.39	1.095
66	8	79	72	75	1.25	0.65	0.925

3 rows in set (0.000 sec)

MariaDB [npudb1]> update stats set rain\_min\_i=4.50  
 -> where id=13  
 -> and month=7;  
 ERROR 1054 (42S22): Unknown column 'rain\_min\_i' in 'field list'  
 MariaDB [npudb1]> update stats set rain\_min\_i=4.50 where id=13 and  
 month=6;  
 ERROR 1054 (42S22): Unknown column 'rain\_min\_i' in 'field list'  
 MariaDB [npudb1]> update stats set min\_rain\_i=4.50 where id=13 and  
 month=7;;  
 ERROR 1054 (42S22): Unknown column 'min\_rain\_i' in 'field list'  
 ERROR: No query specified

MariaDB [npudb1]> update stats set min\_rain\_i=4.50 where id=13 and  
 month=7;  
 ERROR 1054 (42S22): Unknown column 'min\_rain\_i' in 'field list'  
 MariaDB [npudb1]> update stats set max\_rain\_i=4.50 where id=13 and  
 month=6;  
 ERROR 1054 (42S22): Unknown column 'max\_rain\_i' in 'field list'

MariaDB [npudb1]> UPDATE STATS SET TEMP\_F=50.9  
 -> where id=13  
 -> ;  
**Query OK, 2 rows affected (0.045 sec)**

Rows matched: 2 Changed: 2 Warnings: 0

MariaDB [npudb1]> select\*from stats;

id	month	temp_f	rain_i
13	1	60.27	5.2
33	8	27.4	0.21000000000000002
44	1	28.665000000000003	4.5
44	8	27.4	4.5

4 rows in set (0.000 sec)

MariaDB [npudb1]> select \*from stats;

id	month	temp_f	rain_i
13	1	60.27	5.2
33	8	27.4	0.21000000000000002
44	1	28.665000000000003	4.5
44	8	27.4	4.5

4 rows in set (0.000 sec)

MariaDB [npudb1]> insert into stats values(33,8,27.4,0.19);

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'values(33,8,27.4,0.19)' at line 1

MariaDB [npudb1]> UPDATE STATS SET TEMP\_F = -100 WHERE ID = 44 AND MONTH = 1;

ERROR 4025 (23000): CONSTRAINT `STATS.TEMP\_F` failed for `npudb1`.`STATS`

MariaDB [npudb1]> insert into stats values(44,8,27.4,0.19);

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'values(44,8,27.4,0.19)' at line 1

MariaDB [npudb1]> insert into stats values(44,8,27.4,0.19);

ERROR 1062 (23000): Duplicate entry '44-8' for key 'PRIMARY'

MariaDB [npudb1]> insert into stats values(33,8,27.4,0.19);

ERROR 1062 (23000): Duplicate entry '33-8' for key 'PRIMARY'

MariaDB [npudb1]> insert into stats values(44,8,160,0.19);

ERROR 4025 (23000): CONSTRAINT `stats.temp\_f` failed for `npudb1`.`stats`

MariaDB [npudb1]>



```
MariaDB [npudb1]> UPDATE STATS SET RAIN_I = RAIN_I + 0.01;
Query OK, 6 rows affected (0.043 sec)
Rows matched: 6 Changed: 6 Warnings: 0
```

```
MariaDB [npudb1]> SELECT * FROM STATS;
```

ID	MONTH	TEMP_F	RAIN_I
13	1	57.4	0.32
13	7	91.7	5.16
44	1	27.3	0.19
44	7	74.8	2.1199999999999997
66	1	6.7	2.11
66	7	65.8	4.5299999999999999

```
6 rows in set (0.000 sec)
```

```
MariaDB [npudb1]> UPDATE STATS SET TEMP_F = 74.9
WHERE ID = 44
AND MONTH = 7;
ERROR 1064 (42000): You have an error in your SQL syntax; check the
manual that corresponds to your MariaDB server version for the right
syntax to use near '
WHERE ID = 44
AND MONTH = 7' at line 1
MariaDB [npudb1]> UPDATE STATS SET TEMP_F = 74.9
WHERE ID = 44
AND MONTH = 7;
ERROR 1064 (42000): You have an error in your SQL syntax; check the
manual that corresponds to your MariaDB server version for the right
syntax to use near '
WHERE ID = 44
AND MONTH = 7' at line 1
MariaDB [npudb1]> UPDATE STATS SET TEMP_F=74.9
-> WHERE ID=44
-> AND MONTH=7;
```

```
Query OK, 1 row affected (0.056 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

```
MariaDB [npudb1]> SELECT * FROM STATS;
```

ID	MONTH	TEMP_F	RAIN_I
13	1	57.4	0.32
13	7	91.7	5.16
44	1	27.3	0.19
44	7	74.9	2.1199999999999997
66	1	6.7	2.11
66	7	65.8	4.5299999999999999

```
+-----+-----+-----+-----+
6 rows in set (0.000 sec)
```

```
MariaDB [npudb1]> update w_stats set min_temp_f=80
-> where id=44
-> and month=6;
```

```
Query OK, 0 rows affected (0.000 sec)
Rows matched: 0 Changed: 0 Warnings: 0
```

```
MariaDB [npudb1]> select* from w_stats;
```

```
+-----+-----+-----+-----+-----+-----+
+-----+-----+
| id | month | max_temp_f | min_temp_f | average_temp_f | max_rain_i |
min_rain_i | average_rain_i |
+-----+-----+-----+-----+-----+-----+
+-----+-----+
| 13 |      6 |      80.7 |      67.9 |      76 |      1.78 |
1.09 |      1.35 |
| 44 |      7 |      83 |      68.7 |      75.8 |      1.08 |
0.39 |      1.095 |
| 66 |      8 |      79 |      72 |      75 |      1.25 |
0.65 |      0.925 |
+-----+-----+-----+-----+-----+-----+
+-----+-----+
3 rows in set (0.000 sec)
```

```
MariaDB [npudb1]> commit work;
Query OK, 0 rows affected (0.000 sec)
```

```
MariaDB [npudb1]> update w_stats set max_rain_i=4.50
-> where id=13;
Query OK, 1 row affected (0.054 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

```
MariaDB [npudb1]> select* from w_stats;
```

```
+-----+-----+-----+-----+-----+-----+
+-----+-----+
| id | month | max_temp_f | min_temp_f | average_temp_f | max_rain_i |
min_rain_i | average_rain_i |
+-----+-----+-----+-----+-----+-----+
+-----+-----+
| 13 |      6 |      80.7 |      67.9 |      76 |      4.5 |
1.09 |      1.35 |
| 44 |      7 |      83 |      68.7 |      75.8 |      1.08 |
0.39 |      1.095 |
| 66 |      8 |      79 |      72 |      75 |      1.25 |
0.65 |      0.925 |
+-----+-----+-----+-----+-----+-----+
+-----+-----+
```

```

+-----+-----+-----+-----+-----+-----+
+-----+-----+
3 rows in set (0.000 sec)

```

```

MariaDB [npudb1]> rollback work;
Query OK, 0 rows affected (0.000 sec)

```

```

MariaDB [npudb1]> select* from w_stats;
+-----+-----+-----+-----+-----+-----+
+-----+-----+
| id | month | max_temp_f | min_temp_f | average_temp_f | max_rain_i |
min_rain_i | average_rain_i |
+-----+-----+-----+-----+-----+-----+
+-----+-----+
| 13 | 6 | 80.7 | 67.9 | 76 | 4.5 |
1.09 | 1.35 |
| 44 | 7 | 83 | 68.7 | 75.8 | 1.08 |
0.39 | 1.095 |
| 66 | 8 | 79 | 72 | 75 | 1.25 |
0.65 | 0.925 |
+-----+-----+-----+-----+-----+-----+
+-----+-----+
3 rows in set (0.000 sec)

```

```

MariaDB [npudb1]> UPDATE STATS SET TEMP_F=50.9
-> where id=13
-> ;
Query OK, 2 rows affected (0.045 sec)
Rows matched: 2 Changed: 2 Warnings: 0

```

```

MariaDB [npudb1]> select*from stats;
+-----+-----+-----+-----+-----+
| id | month | temp_f | rain_i |
+-----+-----+-----+-----+
| 13 | 1 | 60.27 | 5.2 |
| 33 | 8 | 27.4 | 0.21000000000000002 |
| 44 | 1 | 28.665000000000003 | 4.5 |
| 44 | 8 | 27.4 | 4.5 |
+-----+-----+-----+-----+
4 rows in set (0.000 sec)

```

```

MariaDB [npudb1]> select *from METRIC_STATS ;
+-----+-----+-----+-----+-----+
| ID | MONTH | (TEMP_F - 32) * 5 /9 | RAIN_I * 0.3937 |
+-----+-----+-----+-----+-----+
| 13 | 1 | 14.111111111111111 | 0.122047 |
| 13 | 7 | 33.166666666666664 | 2.027555 |
| 44 | 1 | -2.6111111111111107 | 0.070866 |
| 44 | 7 | 23.777777777777778 | 0.830707 |

```

66	1	-14.055555555555555	0.82677
66	7	18.777777777777778	1.7795239999999999

6 rows in set (0.000 sec)

```
MariaDB [npudb1]> select *from station1;
```

id	city	state	lat_n	long_w
13	Phoenix	AZ	33	112
44	Denver	CO	40	105

2 rows in set (0.000 sec)

```
MariaDB [npudb1]> select *from stats;
```

id	month	temp_f	rain_i
13	1	60.27	5.2
33	8	27.4	0.21000000000000002
44	1	28.665000000000003	4.5
44	8	27.4	4.5

4 rows in set (0.000 sec)

```
MariaDB [npudb1]> insert into stats values(44,8,27.4,0.19);
ERROR 1062 (23000): Duplicate entry '44-8' for key 'PRIMARY'
MariaDB [npudb1]> insert into stats values(33,8,27.4,0.19);
ERROR 1062 (23000): Duplicate entry '33-8' for key 'PRIMARY'
MariaDB [npudb1]> insert into stats values(44,8,160,0.19);
ERROR 4025 (23000): CONSTRAINT `stats.temp_f` failed for
`npudb1`.`stats`
MariaDB [npudb1]> insert into stats values(44,13,160,0.19);
ERROR 4025 (23000): CONSTRAINT `stats.month` failed for
`npudb1`.`stats`
insert into stats values(44,13,160,101);
ERROR 4025 (23000): CONSTRAINT `stats.month` failed for
`npudb1`.`stats`
select *from station1;
```

id	city	state	lat_n	long_w
13	Phoenix	AZ	33	112
44	Denver	CO	40	105

2 rows in set (0.000 sec)

```
MariaDB [npudb1]> commit work;
Query OK, 0 rows affected (0.000 sec)
```

```
MariaDB [npudb1]> update station1 set lat_n=50
-> where id=13
-> and long_w=114;
```

```
Query OK, 0 rows affected (0.001 sec)
Rows matched: 0 Changed: 0 Warnings: 0
```

```
MariaDB [npudb1]> commit work;
Query OK, 0 rows affected (0.000 sec)
```

```
MariaDB [npudb1]> select*from station1;
```

id	city	state	lat_n	long_w
13	Phoenix	AZ	50	112
44	Denver	CO	40	105

```
2 rows in set (0.002 sec)
```

```
MariaDB [npudb1]>
```