

```
Maryams-MacBook-Pro:~ maryamtaherzadeh$ ssh 19529tm@npu1.npu.edu
Password:
Password:
Last login: Wed Sep  4 17:01:07 2019 from
c-107-3-142-7.hsd1.ca.comcast.net
Dd3HaEkt[19529tm@npu1 ~]$ mysql -u Cs457_19529tm -p
Enter password:
ERROR 1045 (28000): Access denied for user 'Cs457_19529tm'@'localhost'
(using password: YES)
[19529tm@npu1 ~]$ mysql -u CS457_19529 -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 126
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

Query OK, 0 rows affected (0.144 sec)

```
MariaDB [npudb1]> CREATE TABLE STATION
-> (ID INTEGER PRIMARY KEY,
-> CITY CHAR(20),
-> STATE CHAR(2),
-> LAT_N REAL,
-> LONG_W REAL);
```

Query OK, 0 rows affected (0.205 sec)

```
MariaDB [npudb1]> select * from STATION;
Empty set (0.001 sec)
```

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

ERROR 1146 (42S02): Table 'npudb1.STATIONA' doesn't exist

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

Query OK, 1 row affected (0.031 sec)

```
MariaDB [npudb1]> select * from STATION;
+----+-----+-----+-----+-----+
| ID | CITY   | STATE | LAT_N | LONG_W |
```

```

+-----+-----+-----+-----+
| 13 | Phoenix | AZ   | 33 | 112 |
+-----+-----+-----+-----+
1 row in set (0.000 sec)

```

```

MariaDB [npudb1]> insert into STATION values(44, 'Denver', 'CO', 40.5,
105.6);
Query OK, 1 row affected (0.038 sec)

```

```

MariaDB [npudb1]> select * from STATION;
+-----+-----+-----+-----+
| ID | CITY   | STATE | LAT_N | LONG_W |
+-----+-----+-----+-----+
| 13 | Phoenix | AZ   | 33   | 112   |
| 44 | Denver  | CO   | 40.5 | 105.6 |
+-----+-----+-----+-----+
2 rows in set (0.000 sec)

```

```

MariaDB [npudb1]> insert into STATION values((66, 'Caribou', 'ME', 47,
68);
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 '' at line 1
MariaDB [npudb1]> insert into STATION values(66, 'Caribou', 'ME', 47,
68);
Query OK, 1 row affected (0.044 sec)

```

```

MariaDB [npudb1]> select * from STATION;
+-----+-----+-----+-----+
| ID | CITY   | STATE | LAT_N | LONG_W |
+-----+-----+-----+-----+
| 13 | Phoenix | AZ   | 33   | 112   |
| 44 | Denver  | CO   | 40.5 | 105.6 |
| 66 | Caribou | ME   | 47   | 68    |
+-----+-----+-----+-----+
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));
Query OK, 0 rows affected (0.235 sec)

```

```
MariaDB [npudb1]> select *from w_stats;  
Empty set (0.001 sec)
```

```
MariaDB [npudb1]> insert into w_stats values  
(13,6,80.7,67.9,76,1.78,1.09,1.35);  
Query OK, 1 row affected (0.052 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 |      1.78 |  
1.09 |      1.35 |  
+----+-----+-----+-----+-----+-----+  
+-----+-----+  
1 row in set (0.000 sec)
```

```
MariaDB [npudb1]> insert into w_stats values  
(44,7,83,68.7,75.8,1.08,0.39,1.095);  
Query OK, 1 row affected (0.044 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 |      1.78 |  
1.09 |      1.35 |  
| 44 |      7 |      83 |      68.7 |      75.8 |      1.08 |  
0.39 |      1.095 |  
+----+-----+-----+-----+-----+-----+  
+-----+-----+  
2 rows in set (0.000 sec)
```

```
MariaDB [npudb1]> insert into w_stats values  
(66,8,79,72,75,1.25,0.65,0.925);  
Query OK, 1 row affected (0.047 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 | 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 STATION, w_stats
-> where STATION.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 | 40.5 | 105.6 | 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)

```

PROBLEM 2

```

MariaDB [npudb1]> CREATE TABLE STATION3
-> (ID INTEGER PRIMARY KEY,
-> CITY CHAR(20),
-> STATE CHAR(2),
-> COUNTRY CHAR(20),

```

```

-> ZIP INTEGER,
->     LAT_N REAL,
->     LONG_W REAL);

```

Query OK, 0 rows affected (0.230 sec)

```

MariaDB [npudb1]> insert into STATION3 values(13,'Phoenix','AZ','USA',
85001,33, 112);

```

```

MariaDB [npudb1]> SELECT * FROM STATION3;

```

ID	CITY	STATE	COUNTRY	ZIP	LAT_N	LONG_W
13	Phoenix	AZ	USA	85001	33	112

1 row in set (0.000 sec)

```

MariaDB [npudb1]> insert into STATION3 values(14,'Yuma','AZ','USA',
85364,34, 132);

```

Query OK, 1 row affected (0.058 sec)

```

MariaDB [npudb1]> SELECT * FROM STATION3;

```

ID	CITY	STATE	COUNTRY	ZIP	LAT_N	LONG_W
13	Phoenix	AZ	USA	85001	33	112
14	Yuma	AZ	USA	85364	34	132

2 rows in set (0.000 sec)

```

MariaDB [npudb1]> insert into STATION3
values(15,'Prescott','AZ','USA',86301,37, 133);

```

Query OK, 1 row affected (0.042 sec)

```

MariaDB [npudb1]> SELECT * FROM STATION3;

```

ID	CITY	STATE	COUNTRY	ZIP	LAT_N	LONG_W
13	Phoenix	AZ	USA	85001	33	112
14	Yuma	AZ	USA	85364	34	132
15	Prescott	AZ	USA	86301	37	133

3 rows in set (0.000 sec)

```

MariaDB [npudb1]> insert into STATION3 values(44,'Denver','CO','USA',
80014,40, 105);

```

Query OK, 1 row affected (0.052 sec)

MariaDB [npudb1]> SELECT * FROM STATION3;

ID	CITY	STATE	COUNTRY	ZIP	LAT_N	LONG_W
13	Phoenix	AZ	USA	85001	33	112
14	Yuma	AZ	USA	85364	34	132
15	Prescott	AZ	USA	86301	37	133
44	Denver	CO	USA	80014	40	105

4 rows in set (0.000 sec)

MariaDB [npudb1]> insert into STATION3 values(45, 'fort collins', 'CO', 'USA', 80521, 41, 106);

Query OK, 1 row affected (0.037 sec)

MariaDB [npudb1]> SELECT * FROM STATION3;

ID	CITY	STATE	COUNTRY	ZIP	LAT_N	LONG_W
13	Phoenix	AZ	USA	85001	33	112
14	Yuma	AZ	USA	85364	34	132
15	Prescott	AZ	USA	86301	37	133
44	Denver	CO	USA	80014	40	105
45	fort collins	CO	USA	80521	41	106

5 rows in set (0.000 sec)

MariaDB [npudb1]> insert into STATION3 values(46, 'Pueblo', 'CO', 'USA', 80541, 42, 107);

Query OK, 1 row affected (0.057 sec)

MariaDB [npudb1]> SELECT * FROM STATION3;

ID	CITY	STATE	COUNTRY	ZIP	LAT_N	LONG_W
13	Phoenix	AZ	USA	85001	33	112
14	Yuma	AZ	USA	85364	34	132
15	Prescott	AZ	USA	86301	37	133
44	Denver	CO	USA	80014	40	105
45	fort collins	CO	USA	80521	41	106
46	Pueblo	CO	USA	80541	42	107

6 rows in set (0.000 sec)

MariaDB [npudb1]> SELECT * FROM STATION3
-> where LAT_N > 39.7;

ID	CITY	STATE	COUNTRY	ZIP	LAT_N	LONG_W
44	Denver	CO	USA	80014	40	105
45	fort collins	CO	USA	80521	41	106
46	Pueblo	CO	USA	80541	42	107

3 rows in set (0.000 sec)

MariaDB [npudb1]> SELECT * FROM STATION3;

ID	CITY	STATE	COUNTRY	ZIP	LAT_N	LONG_W
13	Phoenix	AZ	USA	85001	33	112
14	Yuma	AZ	USA	85364	34	132
15	Prescott	AZ	USA	86301	37	133
44	Denver	CO	USA	80014	40	105
45	fort collins	CO	USA	80521	41	106
46	Pueblo	CO	USA	80541	42	107

6 rows in set (0.000 sec)

MariaDB [npudb1]> SELECT * FROM STATION3 where ZIP<= 85360;

ID	CITY	STATE	COUNTRY	ZIP	LAT_N	LONG_W
13	Phoenix	AZ	USA	85001	33	112
44	Denver	CO	USA	80014	40	105
45	fort collins	CO	USA	80521	41	106
46	Pueblo	CO	USA	80541	42	107

4 rows in set (0.000 sec)

MariaDB [npudb1]> SELECT ID, CITY, STATE FROM STATION;

ID	CITY	STATE
13	Phoenix	AZ
44	Denver	CO
66	Caribou	ME

3 rows in set (0.000 sec)

MariaDB [npudb1]> SELECT * FROM STATION3;

ID	CITY	STATE	COUNTRY	ZIP	LAT_N	LONG_W
13	Phoenix	AZ	USA	85001	33	112
14	Yuma	AZ	USA	85364	34	132

15	Prescott	AZ	USA	86301	37	133
44	Denver	CO	USA	80014	40	105
45	fort collins	CO	USA	80521	41	106
46	Pueblo	CO	USA	80541	42	107

6 rows in set (0.000 sec)

MariaDB [npudb1]> SELECT ID, CITY,STATE,COUNTRY,ZIP,LAT_N, LONG_W FROM STATION3;

13	Phoenix	AZ	USA	85001	33	112
14	Yuma	AZ	USA	85364	34	132
15	Prescott	AZ	USA	86301	37	133
44	Denver	CO	USA	80014	40	105
45	fort collins	CO	USA	80521	41	106
46	Pueblo	CO	USA	80541	42	107

6 rows in set (0.001 sec)

MariaDB [npudb1]> SELECT ID, CITY,STATE,COUNTRY,ZIP FROM STATION3;

13	Phoenix	AZ	USA	85001
14	Yuma	AZ	USA	85364
15	Prescott	AZ	USA	86301
44	Denver	CO	USA	80014
45	fort collins	CO	USA	80521
46	Pueblo	CO	USA	80541

6 rows in set (0.000 sec)