

```
Maryams-MacBook-Pro:~ maryamtaherzadeh$ ssh 19529tm@npu1.npu.edu
Password:
Last login: Thu Sep 19 05:28:22 2019 from
c-107-3-142-7.hsd1.ca.comcast.net
[19529tm@npu1 ~]$ mysql -u CS457_19529-p
ERROR 1045 (28000): Access denied for user 'CS457_19529-p'@'localhost'
(using password: NO)
[19529tm@npu1 ~]$ mysql -u CS457_19529 -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 225
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
```

```
MariaDB [npudb1]> create table transaction
-> (id integer primary key, type char(30), account_id integer,
amount float, date integer);
Query OK, 0 rows affected (0.229 sec)
```

```
MariaDB [npudb1]> insert into transaction values (978, 'DBT',
103,100.0,2004-01-22);
Query OK, 1 row affected (0.050 sec)
```

```
MariaDB [npudb1]> insert into transaction values (979,'CDT',
103,25.00,2004-02-05);
Query OK, 1 row affected (0.052 sec)
```

```
MariaDB [npudb1]> insert into transaction values (980,'DBT',
104,250.00,2004-03-09);
Query OK, 1 row affected (0.050 sec)
```

```
MariaDB [npudb1]> insert into transaction values (981,'DBT',
105,1000.00,2004-03-25);
Query OK, 1 row affected (0.069 sec)
```

```
MariaDB [npudb1]> INSERT INTO TRANSACTION VALUES (982,'DBT',
105,138.50,2004-04-02);
ERROR 1146 (42S02): Table 'npudb1.TRANSACTION' doesn't exist
MariaDB [npudb1]> INSERT INTO transaction VALUES (982,'DBT',
105,138.50,2004-04-02);
```

Query OK, 1 row affected (0.042 sec)

MariaDB [npudb1]> select*from transaction;

id	type	account_id	amount	date
978	DBT	103	100	1981
979	CDT	103	25	1997
980	DBT	104	250	1992
981	DBT	105	1000	1976
982	DBT	105	138.5	1998

5 rows in set (0.001 sec)

MariaDB [npudb1]> select * from transaction where amount>25.80;

id	type	account_id	amount	date
978	DBT	103	100	1981
980	DBT	104	250	1992
981	DBT	105	1000	1976
982	DBT	105	138.5	1998

4 rows in set (0.001 sec)

MariaDB [npudb1]> select id,tyoe, account_id from transaction;
ERROR 1054 (42S22): Unknown column 'tyoe' in 'field list'

MariaDB [npudb1]> select id,type, account_id from transaction;

id	type	account_id
978	DBT	103
979	CDT	103
980	DBT	104
981	DBT	105
982	DBT	105

5 rows in set (0.000 sec)

MariaDB [npudb1]> select id, type, account_id, amount from transaction
where date>1960;

id	type	account_id	amount
978	DBT	103	100
979	CDT	103	25
980	DBT	104	250
981	DBT	105	1000
982	DBT	105	138.5

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

```
ERROR 1050 (42S01): Table 'transaction1' already exists
MariaDB [npudb1]> select * from transaction1;
Empty set (0.001 sec)
```

```
MariaDB [npudb1]> insert into transaction1 values (546,
6000.00,70.00,3030.00);
Query OK, 1 row affected (0.034 sec)
```

```
MariaDB [npudb1]> insert into transaction2 values (670,
6700.00,10.00,3335);
Query OK, 1 row affected (0.045 sec)
```

```
MariaDB [npudb1]> insert into transaction1 values (678,
76700.00,150.00,3339);
Query OK, 1 row affected (0.058 sec)
```

```
MariaDB [npudb1]> select*from transaction1;
+-----+-----+-----+-----+
| id | max_amount | min_amount | average_amount |
+-----+-----+-----+-----+
| 546 | 6000 | 70 | 3030 |
| 670 | 6700 | 10 | 3335 |
| 678 | 76700 | 150 | 3339 |
+-----+-----+-----+-----+
3 rows in set (0.000 sec)
```

```
MariaDB [npudb1]> select*from transaction,transaction1 where
transaction.id=transaction1.id;
Empty set (0.000 sec)
```

```
MariaDB [npudb1]> insert into transaction1 values (978,
76700.00,150.00,3339);
Query OK, 1 row affected (0.052 sec)
```

```
MariaDB [npudb1]> insert into transaction1 values (979,
6000.00,70.00,3030.00);
Query OK, 1 row affected (0.040 sec)
```

```
MariaDB [npudb1]> insert into transaction1 values (980,
96000.00,70.00,45030.00);
Query OK, 1 row affected (0.041 sec)
```

```
MariaDB [npudb1]> select*from transaction,transaction1 where
transaction.id=tranMariaDB [npudb1]> select*from
transaction,transaction1 where transaction.id=tranMariaDB [npudb1]>
```

```
select*from transaction,transaction1 where
transaction.id=transaction1.id;
```

id	type	account_id	amount	date	id	max_amount	min_amount	average_amount
978	DBT	103	100	1981	978	76700	150	3339
979	CDT	103	25	1997	979	6000	70	3030
980	DBT	104	250	1992	980	96000	70	45030

3 rows in set (0.001 sec)

```
MariaDB [npudb1]> select id,type, amount,date from transaction order
by amount,account_id desc;
```

id	type	amount	date
979	CDT	25	1997
978	DBT	100	1981
982	DBT	138.5	1998
980	DBT	250	1992
981	DBT	1000	1976

```
MariaDB [npudb1]> select id,type,account_id from transaction order by
amount and date desc;
```

id	type	account_id
978	DBT	103
979	CDT	103
980	DBT	104
981	DBT	105
982	DBT	105

5 rows in set (0.001 sec)

```
MariaDB [npudb1]> select id,type,account_id, amount, date from
transaction order by amount and date desc;
```

id	type	account_id	amount	date
978	DBT	103	100	1981

979	CDT	103	25	1997
980	DBT	104	250	1992
981	DBT	105	1000	1976
982	DBT	105	138.5	1998

5 rows in set (0.001 sec)

MariaDB [npudb1]> select id, max_amount,min_amount, average_amount
from transaction1 where id=978 and average_amount<=3000 order by
min_amount;

Empty set (0.000 sec)

MariaDB [npudb1]> select id, max_amount,min_amount, average_amount
from transaction1 where id=978 and average_amount>3000 order by
min_amount;

id	max_amount	min_amount	average_amount
978	76700	150	3339

1 row in set (0.000 sec)

MariaDB [npudb1]> select min_amount ,max_amount,average_amount,id from
transaction1 group by id;

min_amount	max_amount	average_amount	id
70	6000	3030	546
10	6700	3335	670
150	76700	3339	678
150	76700	3339	978
70	6000	3030	979
70	96000	45030	980

6 rows in set (0.000 sec)

MariaDB [npudb1]> update transaction1 set
average_amount=average_amount+30;

Query OK, 6 rows affected (0.045 sec)

Rows matched: 6 Changed: 6 Warnings: 0

MariaDB [npudb1]> select*from transaction1;

id	max_amount	min_amount	average_amount
546	6000	70	3060
670	6700	10	3365
678	76700	150	3369
978	76700	150	3369

979	6000	70	3060
980	96000	70	45060

6 rows in set (0.000 sec)

MariaDB [npudb1]> update transaction1 set min_amount=670

-> where id 979;

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 '979' at line 2

MariaDB [npudb1]> commit work;

Query OK, 0 rows affected (0.000 sec)

MariaDB [npudb1]> select*from transaction1;

id	max_amount	min_amount	average_amount
546	6000	70	3060
670	6700	10	3365
678	76700	150	3369
978	76700	150	3369
979	6000	70	3060
980	96000	70	45060

6 rows in set (0.000 sec)

MariaDB [npudb1]> insert into transaction values(978,'DBT',8,-90.00,1990);

ERROR 1062 (23000): Duplicate entry '978' for key 'PRIMARY'

MariaDB [npudb1]> insert into transaction values(988,'DBT',8,-90.00,1990);

Query OK, 1 row affected (0.068 sec)

MariaDB [npudb1]> SELECT MIN_AMOUNT, MAX_AMOUNT FROM transaction1;

MIN_AMOUNT	MAX_AMOUNT
70	6000
10	6700
150	76700
150	76700
70	6000
70	96000

6 rows in set (0.000 sec)

MariaDB [npudb1]> select distinct id, type, amount from transaction;

-----+

id	type	amount
978	DBT	100
979	CDT	25
980	DBT	250
981	DBT	1000
982	DBT	138.5
988	DBT	-90

6 rows in set (0.000 sec)

MariaDB [npudb1]> select Id, type, amount, date from transaction where id=980 order by amount desc;

Id	type	amount	date
980	DBT	250	1992

1 row in set (0.000 sec)

MariaDB [npudb1]> select Id, type, amount, date from transaction where account_id=105 order by amount desc;

Id	type	amount	date
981	DBT	1000	1976
982	DBT	138.5	1998

2 rows in set (0.000 sec)

MariaDB [npudb1]> select Id, type, amount, date from transaction where account_id=105 order by amount;

Id	type	amount	date
982	DBT	138.5	1998
981	DBT	1000	1976

2 rows in set (0.001 sec)

MariaDB [npudb1]> select Id, type, amount, date from transaction where amount between 100 and 1000;

Id	type	amount	date
978	DBT	100	1981
980	DBT	250	1992
981	DBT	1000	1976
982	DBT	138.5	1998

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

```
MariaDB [npudb1]> select Id, type, amount, date from transaction where
amount between 100 and 250;
```

```
+-----+-----+-----+-----+
| Id  | type | amount | date |
+-----+-----+-----+-----+
| 978 | DBT  | 100    | 1981 |
| 980 | DBT  | 250    | 1992 |
| 982 | DBT  | 138.5  | 1998 |
+-----+-----+-----+-----+
```

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

```
MariaDB [npudb1]> select Id, type, amount, date from transaction where
account_id=104
-> group by amount;
```

```
+-----+-----+-----+-----+
| Id  | type | amount | date |
+-----+-----+-----+-----+
| 980 | DBT  | 250    | 1992 |
+-----+-----+-----+-----+
```

```
1 row in set (0.001 sec)
```

```
MariaDB [npudb1]> select Id, type, amount, date from transaction where
account_id=978 group by amount;
Empty set (0.000 sec)
```

```
MariaDB [npudb1]> select Id, type, amount, date from transaction where
account_id=105 group by id;
```

```
+-----+-----+-----+-----+
| Id  | type | amount | date |
+-----+-----+-----+-----+
| 981 | DBT  | 1000   | 1976 |
| 982 | DBT  | 138.5  | 1998 |
+-----+-----+-----+-----+
```

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

```
MariaDB [npudb1]> select Id, type, amount, date, account_id from
transaction where account_id=105 group by id;
```

```
+-----+-----+-----+-----+-----+
| Id  | type | amount | date | account_id |
+-----+-----+-----+-----+-----+
| 981 | DBT  | 1000   | 1976 | 105        |
| 982 | DBT  | 138.5  | 1998 | 105        |
+-----+-----+-----+-----+-----+
```

```
2 rows in set (0.001 sec)
```

```
MariaDB [npudb1]> select sum (amount)
```



```

-> from transaction where account_id=104 group by amount;
ERROR 1370 (42000): execute command denied to user
'CS457_19529'@'localhost' for routine 'npudb1.sum'
MariaDB [npudb1]> select sum (amount) from transaction where
account_id=104 group by date;
ERROR 1370 (42000): execute command denied to user
'CS457_19529'@'localhost' for routine 'npudb1.sum'
MariaDB [npudb1]> select min_amount from transaction1 where
account_id=546 group by id;
ERROR 1054 (42S22): Unknown column 'account_id' in 'where clause'
MariaDB [npudb1]> select count min_amount from transaction1 where
id=970 group by id;
ERROR 1054 (42S22): Unknown column 'count' in 'field list'
MariaDB [npudb1]> select count transaction from amount where
account_id=105
-> group by id;
ERROR 1146 (42S02): Table 'npudb1.amount' doesn't exist
MariaDB [npudb1]> select count transaction from date where
account_id=105 group by id;
ERROR 1146 (42S02): Table 'npudb1.date' doesn't exist
MariaDB [npudb1]> select account_id, type as CDT_DBT from transaction
where id>975 group by account_id;

```

account_id	CDT_DBT
8	DBT
103	DBT
104	DBT
105	DBT

4 rows in set (0.001 sec)

```

MariaDB [npudb1]> select account_id, type as CDT_DBT from transaction
where id>975 group by account_id having count (date)>1990;
ERROR 1370 (42000): execute command denied to user
'CS457_19529'@'localhost' for routine 'npudb1.count'
MariaDB [npudb1]> select account_id, type as CDT_DBT from transaction
where id>975 group by account_id having count (id)>90

```

->

-> ;

```

ERROR 1370 (42000): execute command denied to user
'CS457_19529'@'localhost' for routine 'npudb1.count'
MariaDB [npudb1]> create table temprrary_customer(cust_id integer
primary key,first_name varchar2(20),last_name varchar2(20),

```

->);

```

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 'varchar2(20),last_name varchar2(20),
)' at line 1

```

```

MariaDB [npudb1]> create table temprrary_customer(cust_id integer
primary key,first_name varchar2(20),last_name varchar2(20));
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 'varchar2(20),last_name varchar2(20))' at line 1
MariaDB [npudb1]> create table temprrary_customer(cust_id integer
primary key,first_name varchar2(20),last_name varchar2(20));
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 'varchar2(20),last_name varchar2(20))' at line 1
MariaDB [npudb1]> create table temprrary_customer(cust_id integer
primary key,first_name char(20),last_name char(20));
Query OK, 0 rows affected (0.245 sec)

```

```

MariaDB [npudb1]> select id,type,amount,date,account_id from
transaction where account_id like '%d';
Empty set (0.000 sec)

```

```

MariaDB [npudb1]> select*from transaction;
+-----+-----+-----+-----+-----+
| id | type | account_id | amount | date |
+-----+-----+-----+-----+
| 978 | DBT | 103 | 100 | 1981 |
| 979 | CDT | 103 | 25 | 1997 |
| 980 | DBT | 104 | 250 | 1992 |
| 981 | DBT | 105 | 1000 | 1976 |
| 982 | DBT | 105 | 138.5 | 1998 |
| 988 | DBT | 8 | -90 | 1990 |
+-----+-----+-----+-----+
6 rows in set (0.000 sec)

```

```

MariaDB [npudb1]> select id,type,amount,date,account_id from
transaction where account_id like 'a__%';
Empty set (0.002 sec)

```

```

MariaDB [npudb1]> select*from station;
+-----+-----+-----+-----+-----+
| 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 id,city,state,lat_n, long_w from station
where city like '%ver%';
+-----+-----+-----+-----+-----+
| id | city | state | lat_n | long_w |

```

44	Denver	CO	40	105
----	--------	----	----	-----

1 row in set (0.000 sec)

MariaDB [npudb1]> select id,city,state,lat_n, long_w from station where city like '%x';

id	city	state	lat_n	long_w
13	Phoenix	AZ	33	112

1 row in set (0.000 sec)

MariaDB [npudb1]> select id,type,amount,date,account_id from transaction where type like '%T';

id	type	amount	date	account_id
978	DBT	100	1981	103
979	CDT	25	1997	103
980	DBT	250	1992	104
981	DBT	1000	1976	105
982	DBT	138.5	1998	105
988	DBT	-90	1990	8

6 rows in set (0.001 sec)

MariaDB [npudb1]> select id,type,amount,date,account_id from transaction where date>1982 order by account_id;

id	type	amount	date	account_id
988	DBT	-90	1990	8
979	CDT	25	1997	103
980	DBT	250	1992	104
982	DBT	138.5	1998	105

4 rows in set (0.001 sec)

MariaDB [npudb1]> select sum transaction

-> ;

ERROR 1054 (42S22): Unknown column 'sum' in 'field list'

MariaDB [npudb1]> select account_id from transaction where id=979 group by account_id;

account_id
103

+-----+

1 row in set (0.000 sec)

MariaDB [npudb1]> select sum account_id from transaction where id=979
group by account_id;

ERROR 1054 (42S22): Unknown column 'sum' in 'field list'

MariaDB [npudb1]> select count account_id from transaction where
id=980;

ERROR 1054 (42S22): Unknown column 'count' in 'field list'

MariaDB [npudb1]> create table temp_customer(cust_id integer primary
key, first_name char(20),last_name char(20)
->);

Query OK, 0 rows affected (0.251 sec)

MariaDB [npudb1]> select *from temp_customer;

Empty set (0.001 sec)

MariaDB [npudb1]> create index idex_accountnum on
transaction(account_id);

Query OK, 0 rows affected (0.414 sec)

Records: 0 Duplicates: 0 Warnings: 0

MariaDB [npudb1]> create index idex_accountnum2 on
transaction(account_id);

Query OK, 0 rows affected, 1 warning (0.342 sec)

Records: 0 Duplicates: 0 Warnings: 1

Query OK, 0 rows affected (0.330 sec)

Records: 0 Duplicates: 0 Warnings: 0

exists

MariaDB [npudb1]> desc transaction;

Field	Type	Null	Key	Default	Extra
txn_id	int(11)	NO	PRI	NULL	
txn_type_cd	char(3)	YES		NULL	
account_id	int(11)	YES	MUL	NULL	
ammount	float	YES		NULL	
date	char(10)	YES	UNI	NULL	

5 rows in set (0.001 sec)

MariaDB [npudb1]> create database account_id;

ERROR 1044 (42000): Access denied for user 'CS457_19529'@'localhost'
to database 'account_id'

MariaDB [npudb1]> commit;

Query OK, 0 rows affected (0.000 sec)

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

```
MariaDB [npudb1]>
```