ASJID TAHIR

19P-0085

DATABASE SYSTEM LAB

LAB # 10:

DCL User & Grant Privileges:

```
MariaDB [(none)]> use 19p0085_asjidtahir
:Database changed
!MariaDB [19p0085_asjidtahir]> CREATE USER 'nutec'@'localhost' IDENTIFIED BY 'doe';
Query OK, 0 rows affected (0.008 sec)

MariaDB [19p0085_asjidtahir]> ALTER USER 'nutec'@'localhost' identified by 'allen';
Query OK, 0 rows affected (0.001 sec)
```

When you open php myadmin you see tables data is too large so that's why the terminal show like this. So to show properly we use \G command:

```
MariaDB [19p0085_asjidtahir]> select * from mysql.user\G;
Host: localhost
                User: root
            Password:
         Select_priv: Y
         Insert priv: Y
         Update priv: Y
         Delete priv: Y
         Create_priv: Y
           Drop_priv: Y
         Reload priv: Y
        Shutdown_priv: Y
        Process_priv: Y
           File_priv: Y
          Grant_priv: Y
      References priv: Y
          Index priv: Y
          Alter priv: Y
        Show_db_priv: Y
          Super_priv: Y
Create_tmp_table_priv: Y
     Lock_tables_priv: Y
        Execute_priv: Y
     Repl_slave_priv: Y
     Repl_client_priv: Y
     Create_view_priv: Y
       Show_view_priv: Y
  Create_routine_priv: Y
   Alter routine priv: Y
```

Second Terminal:

User login:

Grant (Root Terminal):

```
MariaDB [(none)]> grant select on 19p0085_asjidtahir.employee to 'nutec'@'localhost';
Query OK, 0 rows affected (0.011 sec)

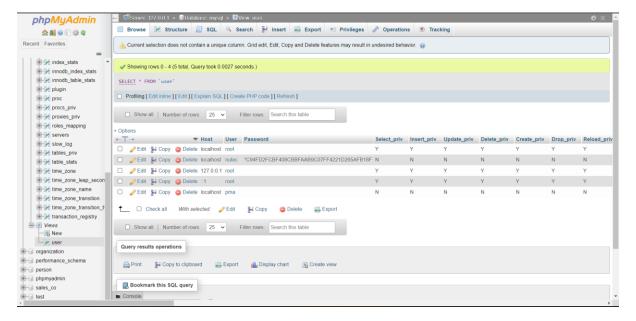
MariaDB [(none)]>
```

Second Nutec Terminal:

Revoke (Root):

```
MariaDB [(none)]> revoke select on 19p0085_asjidtahir.EMPLOYEE from 'nutec'@'localhost';
Query OK, 0 rows affected (0.001 sec)
MariaDB [(none)]>
```

Revoke (Nutec):



LAB TASKS:

1):

```
create user 'Asjid'@'localhost' identifed by 'ajji';
MariaDB [19p0085_asjidtahir]> CREATE USER 'asjid'@'localhost' IDENTIFIED BY 'ajj';
Query OK, 0 rows affected (0.005 sec)
MariaDB [19p0085_asjidtahir]>
```

```
--To login to second terminal asjid
--mysql -u asjid -p
show databases;
```

2a):

```
GRANT ALL PRIVILEGES ON 19p0085_asjidtahir.* TO 'asjid'@'localhost';
 Asjid Tahir@AJJI c:\xampp
 # mysql -u asjid -p
 Enter password: ***
 Welcome to the MariaDB monitor. Commands end with ; or \g.
 Your MariaDB connection id is 15
 Server version: 10.4.22-MariaDB mariadb.org binary distribution
 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)]> show databases;
 Database
   19p0085_asjidtahir
   information_schema
   test
 3 rows in set (0.001 sec)
 MariaDB [(none)]>
```

2b):

```
--2b)
select * from themepark;
update themepark SET PARK_NAME='AJJI' where PARK_CODE='dgsgd';
```

```
MariaDB [19p0085_asjidtahir]> select * from themepark;
PARK_CODE | PARK NAME
                                        PARK_COUNTRY
                          PARK_CITY
 dgsgd
            dgfsdg
                           dgfsdgdfgdgf
           FairyLand
 FR1001
                           PARIS
                                          FR
           Efling
 NL1202
                           NOORD
                                         NL
           | AdventurePort | BARCELONA
 SP4533
                                         SP
                                         SW
 SW2323
           Labyrinthe
                          LAUSANNE
           MiniLand
                          WINDSOR
 UK2622
                                         UK
 UK3452
            PleasureLand
                           STOKE
                                         UK
 ZA1342
                          JOHANNESBURG ZA
           GoldTown
8 rows in set (0.075 sec)
```

```
MariaDB [19p0085 asjidtahir]> select * from themepark;
 PARK_CODE | PARK_NAME
                          PARK_CITY
                                        PARK COUNTRY
 dgsgd
           AJJI
                           dgfsdgdfgdgf
 FR1001
           FairyLand
                                         FR
                          PARIS
 NL1202
           Efling
                           NOORD
                                         NL
           | AdventurePort |
                                         SP
 SP4533
                           BARCELONA
 SW2323
           Labyrinthe
                           LAUSANNE
                                         SW
 UK2622
            MiniLand
                           WINDSOR
                                         UK
 UK3452
           PleasureLand
                          STOKE
                                         UK
 ZA1342
           GoldTown
                          JOHANNESBURG ZA
8 rows in set (0.000 sec)
```

```
--2c)
--To access view

GRANT ALL PRIVILEGES ON 19p0085_asjidtahir.empfr1 TO 'asjid'@'localhost';
select * from empfr1;
MariaDB [fb]> GRANT CREATE on *.* to 'asjid'@'localhost';
Query OK, 0 rows affected (0.002 sec)

MariaDB [fb]>
```

Asjid Terminal:

```
MariaDB [19p0085_asjidtahir]> create database test_DB;
Query OK, 1 row affected (0.001 sec)

MariaDB [19p0085_asjidtahir]>
```

3):

```
--3)
revoke select on 19p0085_asjidtahir.empfr1 from 'asjid'@'localhost';
```

```
!dariaDB [19p0085_asjidtahir]> revoke select on 19p0085_asjidtahir.empfr1 from 'asjid'@'localhost
Query OK, 0 rows affected (0.001 sec)
/ariaDB [19p0085_asjidtahir]>
select * from themepark;
insert into themepark values('FR1005','Ajjiland','Lahore','PK');
select * from themepark;
insert into themepark values('FR1006','Ibrarland','Islamabad','P');
commit;
MariaDB [19p0085_asjidtahir]> select * from themepark;
 PARK CODE | PARK NAME
                           PARK CITY
                                         PARK COUNTRY
             AJJI
                            dgfsdgdfgdgf
 dgsgd
 FR1001
             FairyLand
                             PARIS
                                           FR
             Efling
 NL1202
                             NOORD
                                           NL
                             BARCELONA
  SP4533
             AdventurePort
                                           SP
             Labyrinthe
  SW2323
                             LAUSANNE
                                           SW
 UK2622
             MiniLand
                            WINDSOR
                                           UK
 UK3452
                                           UK
             PleasureLand
                             STOKE
 ZA1342
             GoldTown
                             JOHANNESBURG |
                                           ZA
8 rows in set (0.000 sec)
MariaDB [19p0085_asjidtahir]> insert into themepark values('FR1005','Ajjiland','Lahore','PK');
Query OK, 1 row affected (0.005 sec)
MariaDB [19p0085_asjidtahir]> select * from themepark;
 PARK_CODE | PARK_NAME
                           PARK_CITY
                                         PARK_COUNTRY
             AJJI
                            dgfsdgdfgdgf
 desed
 FR1001
             FairyLand
                             PARIS
                                           FR
             Ajjiland
 FR1005
                                           PK
                             Lahore
 NL1202
             Efling
                             NOORD
                                           NL
 SP4533
             AdventurePort
                             BARCELONA
                                           SP
  SW2323
             Labyrinthe
                             LAUSANNE
                                           SW
                            WINDSOR
                                           UK
 UK2622
             MiniLand
 UK3452
             PleasureLand
                             STOKE
                                           UK
                            JOHANNESBURG |
 ZA1342
             GoldTown
                                           ZA
9 rows in set (0.000 sec)
MariaDB [19p0085_asjidtahir]> insert into themepark values('FR1006','Ibrarland','Islamabad','P');
Query OK, 1 row affected (0.003 sec)
MariaDB [19p0085_asjidtahir]> commit;
Query OK, 0 rows affected (0.000 sec)
MariaDB [19p0085_asjidtahir]>
```

```
select * from themepark;
rollback;
```

select * from themepark; --Roll back command not work because we used commit
command to save our insertion data.

```
MariaDB [19p0085_asjidtahir]> select * from themepark;
  PARK CODE | PARK NAME
                               PARK_CITY
                                                PARK COUNTRY
             AJJI
                                 dgfsdgdfgdgf
  dgsgd
                                 PARIS
                                                 FR
  FR1001
             FairyLand
             Ajjiland
  FR1005
                                                 PK
                                Lahore
  FR1006
              Ibrarland
                                Islamabad
                                                 Р
  NL1202
             Efling
                                NOORD
                                                 NL
             | AdventurePort |
                                BARCELONA
  SP4533
                                                  SP
  SW2323
             Labyrinthe
                                LAUSANNE
                                                  SW
             MiniLand
                                WINDSOR
                                                 UK
  UK2622
  UK3452
             PleasureLand
                                                 UK
                                STOKE
  ZA1342
             GoldTown
                               | JOHANNESBURG | ZA
10 rows in set (0.001 sec)
MariaDB [19p0085_asjidtahir]> rollback;
Query OK, 0 rows affected (0.000 sec)
MariaDB [19p0085 asjidtahir]> select * from themepark;
 PARK CODE | PARK NAME
                               PARK_CITY
                                                PARK COUNTRY
            | AJJI | dgfsdgdfgd
| FairyLand | PARIS
| Ajjiland | Lahore
| Ibrarland | Islamabad
| Efling | NOORD
| AdventurePort | BARCELONA
| Labyrinthe | LAUSANNE
| MiniLand | WINDSOR
 dgsgd
                                 dgfsdgdfgdgf
  FR1001
                                                  FR
  FR1005
                                                 PK
  FR1006
                                                 Р
  NL1202
                                                 NL
  SP4533
                                                 SP
  SW2323
                                                  SW
  UK2622
                                                 UK
             PleasureLand
  UK3452
                                STOKE
                                                 UK
  ZA1342
             GoldTown
                               JOHANNESBURG ZA
10 rows in set (0.000 sec)
MariaDB [19p0085_asjidtahir]>
```

```
--ROLLBACK Task
--4b)
insert into themepark values('FR1099','Omiland','Lhr','k');
select * from themepark;
--4c)
update themepark SET PARK_NAME='DEMO' where PARK_CODE='FR1001';
--4d)
rollback;
select * from themepark;
```

```
MariaDB [19p0085_asjidtahir]> insert into themepark values('FR1099','Omiland','Lhr','k');
Query OK, 1 row affected (0.001 sec)
MariaDB [19p0085_asjidtahir]> select * from themepark;
 PARK_CODE
              PARK_NAME
                              PARK_CITY
                                             PARK_COUNTRY
              AJJI
 dgsgd
                              dgfsdgdfgdgf
  FR1001
              Dreamland
                              PARIS
                                              FR
  FR1005
              Ajjiland
                              Lahore
                                              PK
 FR1006
              Ibrarland
                              Islamabad
                                              Р
 FR1007
              TAHIR
                              Karachi
                                              Pk
  FR1099
              Omiland
                              Lhr
 NL1202
                              NOORD
                                              NL
              Efling
  SP4533
              AdventurePort
                              BARCELONA
                                              SP
  SW2323
              Labyrinthe
                               LAUSANNE
                                              SW
              MiniLand
 UK2622
                              WINDSOR
                                              UK
 UK3452
              PleasureLand
                              STOKE
                                              UK
  ZA1342
              GoldTown
                              JOHANNESBURG | ZA
12 rows in set (0.000 sec)
MariaDB [19p0085_asjidtahir]> update themepark SET PARK_NAME='DEMO' where PARK_CODE='FR1001';
Query OK, 1 row affected (0.000 sec)
Rows matched: 1 Changed: 1 Warnings: 0
MariaDB [19p0085_asjidtahir]> select * from themepark;
 PARK CODE | PARK NAME
                              PARK CITY
                                              PARK COUNTRY
              ATIT
                              dgfsdgdfgdgf
 dgsgd
 FR1001
              DEMO
                              PARIS
                                              FR
  FR1005
              Ajjiland
                              Lahore
                                              PK
  FR1006
                                              Р
              Ibrarland
                              Islamabad
  FR1007
                                              Pk
              TAHIR
                              Karachi
  FR1099
              Omiland
                              Lhr
                              NOORD
 NL1202
              Efling
                                              NL
 SP4533
              AdventurePort
                              BARCELONA
                                              SP
  SW2323
              Labyrinthe
                              LAUSANNE
                                              SW
                              WINDSOR
 UK2622
              MiniLand
                                              UK
  UK3452
                              STOKE
                                              UK
              PleasureLand
  ZA1342
              GoldTown
                              JOHANNESBURG |
                                              ZA
12 rows in set (0.000 sec)
MariaDB [19p0085_asjidtahir]> rollback;
Query OK, 0 rows affected (0.003 sec)
```

After Rollback:

```
MariaDB [19p0085_asjidtahir]> select * from themepark;
 PARK_CODE | PARK_NAME
                           PARK_CITY
                                          PARK_COUNTRY
             AJJI
                             dgfsdgdfgdgf
 dgsgd
 FR1001
             Dreamland
                             PARIS
                                           FR
 FR1005
             Ajjiland
                                           PK
                             Lahore
 FR1006
             Ibrarland
                             Islamabad
                                           Р
 FR1007
            TAHIR
                             Karachi
                                           Pk
                             NOORD
 NL1202
             Efling
                                           NL
 SP4533
             AdventurePort
                             BARCELONA
                                           SP
                             LAUSANNE
  SW2323
             Labyrinthe
                                           SW
 UK2622
             MiniLand
                             WINDSOR
                                           UK
 UK3452
             PleasureLand
                             STOKE
                                           UK
 ZA1342
            GoldTown
                            JOHANNESBURG ZA
11 rows in set (0.001 sec)
MariaDB [19p0085_asjidtahir]>
```

```
insert into themepark values ('ab2222','luminus','Sheikhupura','AB');
insert into themepark values ('ab333','stadum','sialkot','CD');
update themepark set park_name='shumalia' where park_code='FR1001';
delete from themepark where park_code='dgsgd';
savepoint s1;
select * from themepark;
```

```
MariaDB [19p0085_asjidtahir]> insert into themepark values ('ab2222','luminus','Sheikhupura','AB');
Query OK, 1 row affected (0.002 sec)
```

MariaDB [19p0085_asjidtahir]> insert into themepark values ('ab333','stadum','sialkot','CD'); Query OK, 1 row affected (0.000 sec)

MariaDB [19p0085_asjidtahir]> select * from themepark;

PARK_CODE	PARK_NAME	PARK_CITY	PARK_COUNTRY
ab2222	luminus	Sheikhupura	AB
ab333	stadum	sialkot	CD
dgsgd	AJJI	dgfsdgdfgdgf	z
FR1001	Dreamland	PARIS	FR
FR1005	Ajjiland	Lahore	PK
FR1006	Ibrarland	Islamabad	P
FR1007	TAHIR	Karachi	Pk
NL1202	Efling	NOORD	NL
SP4533	AdventurePort	BARCELONA	SP
SW2323	Labyrinthe	LAUSANNE	SW
UK2622	MiniLand	WINDSOR	UK
UK3452	PleasureLand	STOKE	UK
ZA1342	GoldTown	JOHANNESBURG	ZA
+	L		

13 rows in set (0.000 sec)

MariaDB [19p0085_asjidtahir]> update themepark set park_name='shumalia' where park_code='FR1001'; Query OK, 1 row affected (0.000 sec) Rows matched: 1 Changed: 1 Warnings: 0

MariaDB [19p0085_asjidtahir]> select * from themepark;

		L	
PARK_CODE	PARK_NAME	PARK_CITY	PARK_COUNTRY
ab2222 ab333 dgsgd FR1001 FR1005 FR1006 FR1007 NL1202 SP4533	luminus stadum AJJI shumalia Ajjiland Ibrarland TAHIR Efling AdventurePort	Sheikhupura sialkot dgfsdgdfgdgf PARIS Lahore Islamabad Karachi NOORD	AB
SW2323 UK2622 UK3452	Labyrinthe MiniLand PleasureLand	LAUSANNE WINDSOR STOKE	SW UK UK
ZA1342	GoldTown	JOHANNESBURG	ZA

```
l3 rows in set (0.000 sec)
MariaDB [19p0085_asjidtahir]> delete from themepark where park_code='dgsgd';
Query OK, 1 row affected (0.002 sec)
fariaDB [19p0085_asjidtahir]> savepoint s1;
Query OK, 0 rows affected (0.000 sec)
MariaDB [19p0085_asjidtahir]> select * from themepark;
                                                       PARK_COUNTRY
 PARK_CODE | PARK_NAME | PARK_CITY
                                   | Sheikhupura | AB
| sialkot | CD
| PARIS | FR
              luminus
 ab2222
              stadum
shumalia
Ajjiland
 ab333
 FR1001
                                   Lahore
 FR1005
                                                       PK
              | Ajjiland | Lanore |
| Ibrarland | Islamabad |
| TAHIR | Karachi |
| Efling | NOORD |
| AdventurePort | BARCELONA |
| Labyrinthe | LAUSANNE |
| MiniLand | WINDSOR |
| PleasureLand | STOKE |
| GoldTown | JOHANNESBU
                                                       Р
                                   Islamabad
 FR1006
                                                        Pk
 FR1007
 NL1202
                                                         NL
                                                       SP
 SP4533
                                                         SW
 SW2323
                                                         UK
 UK2622
 UK3452
                                                         UK
               | GoldTown | JOHANNESBURG | ZA
 ZA1342
2 rows in set (0.000 sec)
/ariaDB [19p0085_asjidtahir]>
```

```
--4f)
insert into themepark values ('ab4444','minipark','Karachi','DD');
insert into themepark values ('ab5555','forest','Islamabad','EE');
rollback to s1;
select * from themepark;
```

```
MariaDB [19p0085_asjidtahir]> --4f)
MariaDB [19p0085_asjidtahir]> insert into themepark values ('ab4444','minipark','Karachi','DD');
Query OK, 1 row affected (0.001 sec)
MariaDB [19p0085_asjidtahir]> insert into themepark values ('ab5555','forest','Islamabad','EE');
Query OK, 1 row affected (0.000 sec)
MariaDB [19p0085_asjidtahir]> rollback to s1;
Query OK, 0 rows affected (0.000 sec)
MariaDB [19p0085_asjidtahir]> select * from themepark;
                                          PARK_COUNTRY
 PARK_CODE | PARK_NAME
                           PARK_CITY
                            Sheikhupura
 ab2222
             luminus
                                           AB
 ab333
             stadum
                             sialkot
                                            CD
                             PARIS
 FR1001
                                            FR
             shumalia
 FR1005
             Ajjiland
                             Lahore
                                            PK
 FR1006
             Ibrarland
                             Islamabad
 FR1007
             TAHIR
                             Karachi
                                            Pk
 NL1202
             Efling
                             NOORD
                                            NL
                             BARCELONA
                                            SP
 SP4533
             AdventurePort
 SW2323
             Labyrinthe
                             LAUSANNE
                                            SW
                             WINDSOR
 UK2622
             MiniLand
                                            UK
 UK3452
             PleasureLand
                             STOKE
                                            UK
 ZA1342
            GoldTown
                           JOHANNESBURG ZA
12 rows in set (0.000 sec)
```

MariaDB [19p0085_asjidtahir]>