

TUGAS 02

Membuat ROLE pada database “*classicmodels*”.

Dan akan dikelompokkan menjadi 3 yaitu Pemilik, Manajer, dan Kasir.

1. Masuk ke database “*classicmodels*” dan membuat role yang diinginkan.

```
MariaDB [(none)]> use classicmodels;
Database changed
```

```
MariaDB [classicmodels]> CREATE ROLE pemilik, manajer, kasir;
Query OK, 0 rows affected (0.00 sec)
```

Perintah untuk membuat ROLE adalah :

```
CREATE ROLE namaROLE, namaROLE, ...;
```

2. Memberikan hak akses untuk semua ROLE yang telah dibuat.

- Pemilik : akan diberikan seluruh hak akses
- Manajer : diberikan hak akses SELECT, UPDATE, INSERT, DELETE
- Kasir : diberikan hak akses SELECT dan INSERT

```
MariaDB [classicmodels]> GRANT ALL ON classicmodels.* TO pemilik;
Query OK, 0 rows affected (0.00 sec)
```

```
MariaDB [classicmodels]> GRANT SELECT, UPDATE, INSERT, DELETE ON classicmodels.* TO manajer;
Query OK, 0 rows affected (0.00 sec)
```

```
MariaDB [classicmodels]> GRANT SELECT, INSERT ON classicmodels.* TO kasir;
Query OK, 0 rows affected (0.00 sec)
```

Perintah untuk memberikan hak akses pada ROLE adalah :

```
GRANT hakAkses ON namaDatabase.namaKolom TO namaROLE;
```

3. Setelah itu membuat USER ACCOUNT yang akan diberikan hak akses tertentu.

```
MariaDB [classicmodels]> CREATE USER Fatih_pemilik@localhost IDENTIFIED BY 'pemilik';
Query OK, 0 rows affected (0.00 sec)
```

```
MariaDB [classicmodels]> CREATE USER Dina_manajer1@localhost IDENTIFIED BY 'manajer1';
Query OK, 0 rows affected (0.00 sec)
```

```
MariaDB [classicmodels]> CREATE USER Dinda_manajer2@localhost IDENTIFIED BY 'manajer2';
Query OK, 0 rows affected (0.00 sec)
```

```
MariaDB [classicmodels]> CREATE USER kasir@localhost IDENTIFIED BY 'kasir';
Query OK, 0 rows affected (0.00 sec)
```

Perintah untuk membuat USER adalah :

```
CREATE USER namaUser@host IDENTIFIED BY 'password';
```

4. Memberikan hak akses pada USER dengan ROLE yang telah dibuat sebelumnya dengan perintah GRANT.

```
MariaDB [classicmodels]> GRANT pemilik TO Fatih_pemilik@localhost;
Query OK, 0 rows affected (0.00 sec)
```

```
MariaDB [classicmodels]> GRANT manajer TO Dina_manajer1@localhost;
Query OK, 0 rows affected (0.00 sec)
```

```
MariaDB [classicmodels]> GRANT manajer TO Dinda_manajer2@localhost;
Query OK, 0 rows affected (0.00 sec)
```

```
MariaDB [classicmodels]> GRANT kasir TO kasir@localhost;
Query OK, 0 rows affected (0.00 sec)
```

Perintah untuk memberikan hak akses pada USER :

```
GRANT namaROLE TO namaUSER@host;
```

5. Terkadang USER tidak secara otomatis dapat langsung mengakses role tersebut. Maka harus diperlukan untuk mengaktifkan terlebih dahulu dengan perintah :

```
SET ROLE namaROLE;
```

```
c:\xampp\mysql\bin>mysql -u Fatih_pemilik -p
```

```
Enter password: *****
```

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

```
Your MariaDB connection id is 25
```

```
Server version: 10.1.9-MariaDB mariadb.org binary distribution
```

```
Copyright (c) 2000, 2015, Oracle, MariaDB Corporation Ab and others.
```

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

```
MariaDB [(none)]> use classicmodels;
```

```
ERROR 1044 (42000): Access denied for user 'Fatih_pemilik'@'localhost' to database 'classicmodels'
```

```
MariaDB [(none)]>
```

```
MariaDB [(none)]>
```

```
MariaDB [(none)]>
```

```
MariaDB [(none)]> SET ROLE pemilik;
```

```
Query OK, 0 rows affected (0.00 sec)
```

Baru bisa kita dapat mengaksesnya.

```
MariaDB [(none)]> use classicmodels;
```

```
Database changed
```

```
MariaDB [classicmodels]> SELECT * FROM customers LIMIT 5;
```

```
+-----+-----+-----+-----+-----+-----+
| customerNumber | customerName          | contactLastName | contactFirstName | phone          | postalCode | country | salesRepEmployeeNumber | creditLimit |
+-----+-----+-----+-----+-----+-----+
| 44000          | Atelier graphique     | Schmitt        | Carine           | 40.32.2555    | 103        | France  | 1370                   | 21000.00    |
| 83030          | Signal Gift Stores    | King           | Jean             | 7025551838    | 112        | USA     | 1166                   | 71800.00    |
| 3004           | Australian Collectors, Co. | Ferguson       | Peter            | 03 9520 4555  | 114        | Australia | 1611                   | 117300.00   |
+-----+-----+-----+-----+-----+-----+

```

6. Dilakukan dengan hal yang sama pada user Manajer dan Kasir agar dapat mengakses.

Pada user Manajer

```
c:\xampp\mysql\bin>mysql -u Dina_manajer1 -p
```

```
Enter password: *****
```

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

```
Your MariaDB connection id is 26
```

```
Server version: 10.1.9-MariaDB mariadb.org binary distribution
```

```
Copyright (c) 2000, 2015, Oracle, MariaDB Corporation Ab and others.
```

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

```
MariaDB [(none)]> SET ROLE manajer;
```

```
Query OK, 0 rows affected (0.00 sec)
```

```
MariaDB [(none)]> use classicmodels;
```

```
Database changed
```

Pada user Kasir

```
c:\xampp\mysql\bin>mysql -u kasir -p
```

```
Enter password: *****
```

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

```
Your MariaDB connection id is 27
```

```
Server version: 10.1.9-MariaDB mariadb.org binary distribution
```

```
Copyright (c) 2000, 2015, Oracle, MariaDB Corporation Ab and others.
```

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

```
MariaDB [(none)]> SET ROLE kasir;
```

```
Query OK, 0 rows affected (0.00 sec)
```

```
MariaDB [(none)]> use classicmodels;
```

```
Database changed
```