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TUGAS 2

Membuat Role dan Hak Akses (Grant)

1. Membuat 3 buah role yaitu cm_dev, cm_read, cm_write pada database classicmodels.

```
C:\. Select Command Prompt - mysql -u root -p
MariaDB [(none)]> use classicmodels;
Database changed
MariaDB [classicmodels]> create ROLE cm_dev, cm_read, cm_write;
Query OK, 0 rows affected (0.16 sec)
```

2. Memberikan hak akses pada setiap role.
 - a. Memberi hak akses penuh pada semua table di database classicmodels pada role cm_dev:

```
MariaDB [classicmodels]> grant all on classicmodels.* to cm_dev;
Query OK, 0 rows affected (0.09 sec)
```

- b. Memberi hak akses select pada semua table di database classicmodels pada role cm_read:

```
MariaDB [classicmodels]> grant select on classicmodels.* to cm_read;
Query OK, 0 rows affected (0.00 sec)
```

- c. Memberi hak akses insert, update, delete pada semua table di database classicmodels pada role cm_write:

```
MariaDB [classicmodels]> grant insert, update, delete on classicmodels.* to cm_write;
Query OK, 0 rows affected (0.00 sec)
```

3. Membuat user account.

- a. User owner dengan password 'aaa1' yaitu sebagai pemilik retail.

```
MariaDB [classicmodels]> create user owner identified by 'aaa1';
Query OK, 0 rows affected (0.00 sec)
```

- b. User manager dengan password 'aaa12' yaitu sebagai supervisor

```
MariaDB [classicmodels]> create user manager identified by 'aaa12';
Query OK, 0 rows affected (0.00 sec)
```

- c. User cashier dengan password 'aaa123' yaitu sebagai operator kasir.

```
MariaDB [classicmodels]> create user cashier identified by 'aaa123';
Query OK, 0 rows affected (0.00 sec)
```

4. Memberikan hak akses role pada masing-masing user.

```
MariaDB [classicmodels]> grant cm_dev to owner;
Query OK, 0 rows affected (0.00 sec)

MariaDB [classicmodels]> grant cm_read to manager;
Query OK, 0 rows affected (0.00 sec)

MariaDB [classicmodels]> grant cm_write to cashier;
Query OK, 0 rows affected (0.00 sec)
```

5. Menampilkan hak akses masing-masing user.

```
MariaDB [classicmodels]> show grants for owner;
+-----+
| Grants for owner@% |
+-----+
| GRANT cm_dev TO 'owner'@'%' |
| GRANT USAGE ON *.* TO 'owner'@'%' IDENTIFIED BY PASSWORD '*0A154F415332CDD587BCAE361583F6780CA26DC1' |
+-----+
2 rows in set (0.02 sec)

MariaDB [classicmodels]> show grants for manager;
+-----+
| Grants for manager@% |
+-----+
| GRANT cm_read TO 'manager'@'%' |
| GRANT USAGE ON *.* TO 'manager'@'%' IDENTIFIED BY PASSWORD '*3488D246172E0CA47879E7DACD1E1CD7EC49ABBE' |
+-----+
2 rows in set (0.00 sec)

MariaDB [classicmodels]> show grants for cashier;
+-----+
| Grants for cashier@% |
+-----+
| GRANT cm_write TO 'cashier'@'%' |
| GRANT USAGE ON *.* TO 'cashier'@'%' IDENTIFIED BY PASSWORD '*F6F6E42D54160FBB14BC5B51361E60FB1A8FFE41' |
+-----+
2 rows in set (0.00 sec)
```