Nama: Dandung Rahmatdhan

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Kelas: D

Modul: 4

DATABASE UNIVERSITAS

1. Membuat database baru dengan nama Universitas.

```
MariaDB [(none)]> create database universitas;
Query OK, 1 row affected (0.00 sec)
```

2. Menghubungkan ke dalam database yang telah dibuat.

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

3. Membuat tabel Mahasiswa.

```
MariaDB [universitas]> CREATE TABLE Mahasiswa(
-> NIM_Mahasiswa INTEGER PRIMARY KEY,
-> Nama_Mahasiswa VARCHAR(45)NOT NULL,
-> Alamat_Mahasiswa VARCHAR(255)NOT NULL
-> );
Query OK, 0 rows affected (0.47 sec)
```

4. Membuat tabel Dosen.

```
MariaDB [universitas]> CREATE TABLE Dosen(
-> NIK_Dosen INTEGER PRIMARY KEY,
-> Nama_Dosen VARCHAR(45)NOT NULL,
-> Alamat_Dosen VARCHAR(255)NOT NULL
-> );
Query OK, 0 rows affected (0.45 sec)
```

5. Membuat tabel Mata Kuliah.

```
MariaDB [universitas]> CREATE TABLE Mata_Kuliah(
-> Kode_MK VARCHAR(10) PRIMARY KEY,
-> Nama_MK VARCHAR(20) NOT NULL
-> );
Query OK, 0 rows affected (0.21 sec)
```

6. Membuat tabel Ruang_Kelas.

```
MariaDB [universitas]> CREATE TABLE Ruang_Kelas(
-> Kode_RK VARCHAR(10) PRIMARY KEY,
-> Nama_RK VARCHAR(10) NOT NULL
-> );
Query OK, 0 rows affected (0.85 sec)
```

7. Membuat tabel Mahasiswa has Dosen.

```
MariaDB [universitas]> CREATE TABLE Mahasiswa_has_Dosen(
-> NIM_MahasiswaFK INTEGER REFERENCES Mahasiswa(NIM_Mahasiswa)
-> ON DELETE CASCADE ON UPDATE CASCADE,
-> NIK_DosenFK INTEGER REFERENCES Dosen(NIK_Dosen)
-> ON DELETE CASCADE ON UPDATE CASCADE,
-> PRIMARY KEY(NIM_MahasiswaFK, NIK_DosenFK)
-> );
Query OK, 0 rows affected (0.29 sec)
```

8. Membuat tabel Dosen has MK.

```
MariaDB [universitas]> CREATE TABLE Dosen_has_MK(
-> NIK_DosenFK INTEGER REFERENCES Dosen(NIK_Dosen)
-> ON DELETE CASCADE ON UPDATE CASCADE,
-> Kode_MKFK INTEGER REFERENCES MK(Kode_MK)
-> ON DELETE CASCADE ON UPDATE CASCADE,
-> PRIMARY KEY(NIK_DosenFK, Kode_MKFK)
-> );
Query OK, 0 rows affected (0.23 sec)
```

9. Membuat tabel Mahasiswa_has_RK.

```
MariaDB [universitas]> CREATE TABLE Mahasiswa_has_RK(
-> NIM_MahasiswaFK INTEGER REFERENCES Mahasiswa(NIM_Mahasiswa)
-> ON DELETE CASCADE ON UPDATE CASCADE,
-> Kode_RKFK INTEGER REFERENCES RK(Kode_RK)
-> ON DELETE CASCADE ON UPDATE CASCADE,
-> PRIMARY KEY(NIM_MahasiswaFK, Kode_RKFK)
-> );
Query OK, 0 rows affected (0.19 sec)
```

10. Membuat tabel RK has MK.

```
MariaDB [universitas]> CREATE TABLE RK_has_MK(
-> Kode_RKFK INTEGER REFERENCES RK(Kode_RK)
-> ON DELETE CASCADE ON UPDATE CASCADE,
-> Kode_MKFK INTEGER REFERENCES MK(Kode_MK)
-> ON DELETE CASCADE ON UPDATE CASCADE,
-> PRIMARY KEY(Kode_RKFK, Kode_MKFK)
-> );
Query OK, 0 rows affected (0.19 sec)
```

11. Mengecek hasil Pembuatan Database.

```
MariaDB [universitas]> show tables;

+------

| Tables_in_universitas |

+------

| dosen

| dosen_has_mk

| mahasiswa

| mahasiswa_has_dosen

| mahasiswa_has_rk

| mata_kuliah

| rk_has_mk

| ruang_kelas

+------

8 rows in set (0.00 sec)
```

12. Melihat Struktur tabel Mahasiswa.

13. Melihat Struktur tabel Dosen.

14. Melihat Struktur data Mata_Kuliah.

15. Melihat Struktur data Ruang_Kelas.

16. Melihat Struktur data Mahasiswa_has_Dosen.

17. Melihat Struktur data Dosen has MK.

18. Melihat Struktur data Mahasiswa has RK.

19. Melihat Struktur data RK_has_MK.

DATABASE PENJUALAN

```
П
                                                                                            X
Command Prompt - mysql -u root -p
Microsoft Windows [Version 10.0.17134.648]
(c) 2018 Microsoft Corporation. All rights reserved.
C:\Users\Adhy Oyon>cd ..
C:\Users>cd ..
C:\>cd xampp
C:\xampp>cd mysql
:\xampp\mysql>cd bin
C:\xampp\mysql\bin>mysql -u root -p
Enter password:
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MariaDB connection id is 3
Server version: 10.1.38-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)]> create database penjualan;
Query OK, 1 row affected (0.00 sec)
MariaDB [(none)]> use penjualan;
Database changed
MariaDB [penjualan]> create table pelanggan(
     -> id_pelanggan integer primary key,
     -> nama_pelangggan varchar(45) not null,
     -> alamat_nasabah varchar(255) not null,
     -> email nasabah varchar(50) not null
     -> );
Query OK, 0 rows affected (0.46 sec)
MariaDB [penjualan]> create table pesanan(
     -> id_pesnan integer primary key,
     -> jumlah pesanan varchar(255)not null,
     -> tanggal_pemesanan varchar(50) not null,
     -> pembayaran varchar(100) not null
     -> );
Query OK, 0 rows affected (0.17 sec)
MariaDB [penjualan]> create table pekerja(
     -> id_pekerja integer primary key,
     -> alamat pekerja varchar (255) not null,
     -> nama pekerja varchar(50) not null,
     -> umur varchar(10) not null
     -> );
 Query OK, 0 rows affected (0.48 sec)
```

```
MariaDB [penjualan]> create table barang(
-> kode_barang varchar(20) unique not null,
-> nama_barang varchar(50) not null,
-> jenis_barang varchar(50) not null,
-> stock_barang varchar(20) not null
-> );

Query OK, 0 rows affected (0.23 sec)

MariaDB [penjualan]> create table pekerja_has_pesanan(
-> id_pekerjafk integer references pekerja(id_pekerja) on delete cascade on update cascade,
-> id_pesananfk integer references pesanan(id_pesanan) on delete cascade on update cascade
-> );

Query OK, 0 rows affected (0.28 sec)

MariaDB [penjualan]> create table barang_has_pekerja(
-> id_barangfk integer references barang(id_barang) on delete cascade on update cascade,
-> id_pekerjafk integer references pekerja(id_pekerja) on delete cascade on update cascade
-> );

Query OK, 0 rows affected (0.22 sec)
```

```
MariaDB [penjualan]> show tables;
 Tables_in_penjualan
 barang
 barang has pekerja
 pekerja
 pekerja_has_pesanan
 pelanggan
 pesanan
6 rows in set (0.19 sec)
MariaDB [penjualan]> describe barang;
 Field
               Type
                             | Null | Key | Default | Extra
 kode barang
                varchar(20)
                               NO
                                      PRI
                                            NULL
                varchar(50)
                               NO
                                            NULL
 nama barang
 jenis_barang | varchar(50)
                               NO
                                            NULL
 stock barang | varchar(20)
                               NO
                                            NULL
4 rows in set (0.13 sec)
MariaDB [penjualan]> describe barang;
```