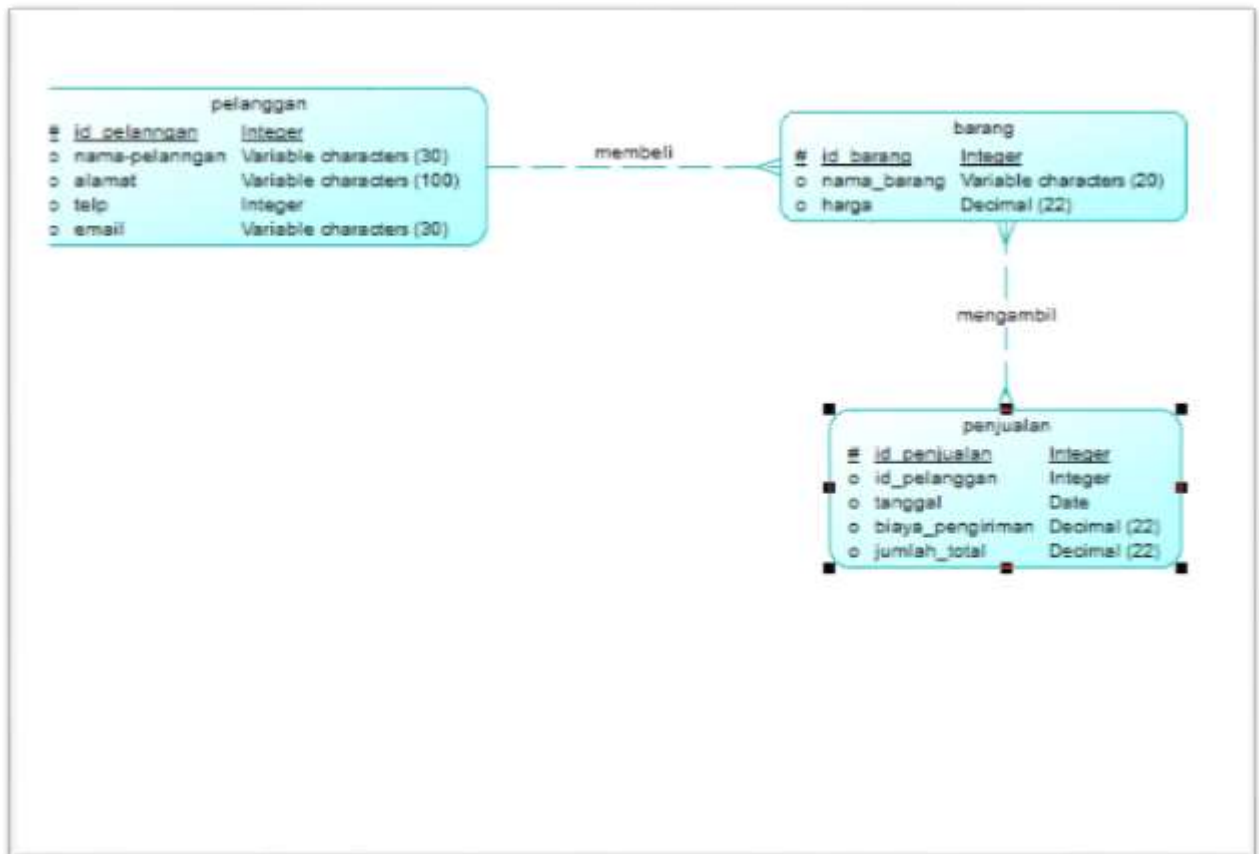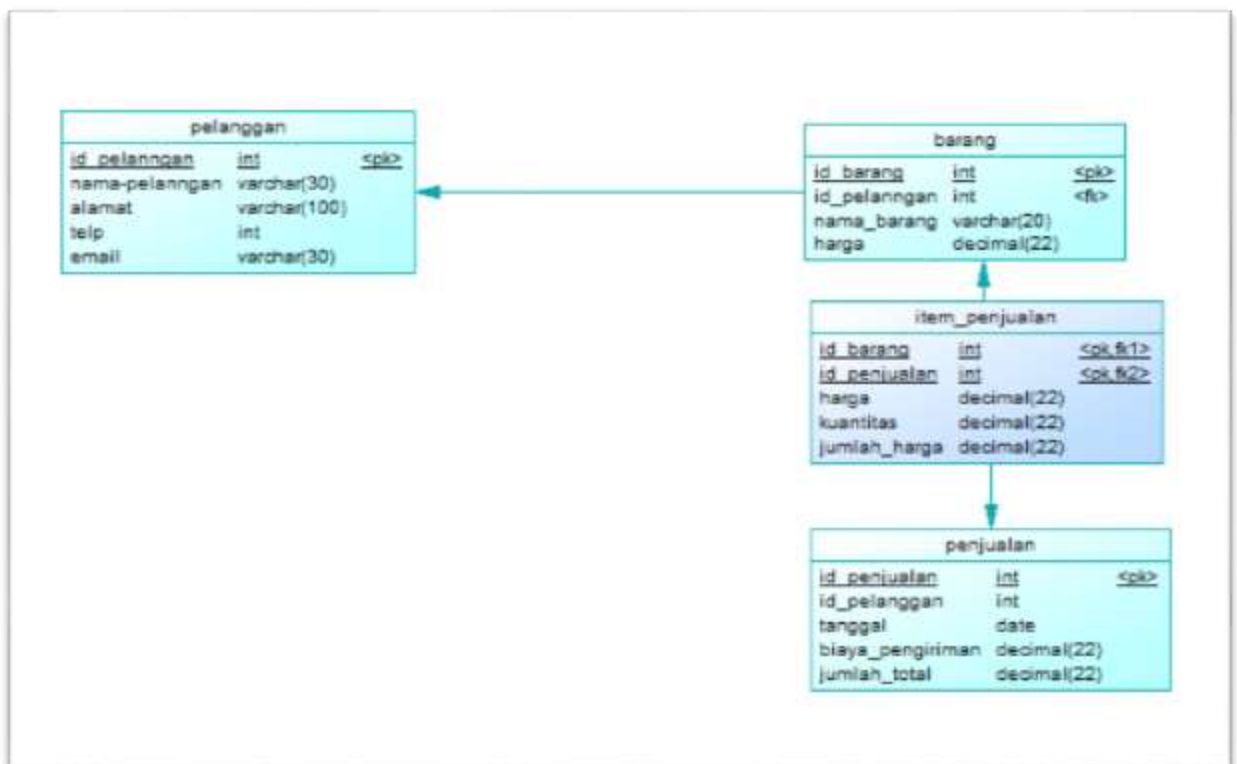1. CDM

PDM

2. Membuat Database NRP_TOKO

```
MariaDB [stiki]> CREATE DATABASE 171111051_TOKO;
Query OK, 1 row affected (0.00 sec)
```

3. Mengimplemenasikan PDM yang telah dibuat pada Power Designer ke Mysql

```
MariaDB [171111051_TOKO]> create table pelanggan (
    -> id_pelanggan int not null,
    -> nama_pelanggan varchar (30) not null,
    -> alamat varchar (100) not null,
    -> telp int not null,
    -> email varchar (30) not null,
    -> PRIMARY KEY (id_pelanggan)
    -> );
Query OK, 0 rows affected (0.04 sec)

MariaDB [171111051_TOKO]> CREATE TABLE barang (
    -> id_barang int not null,
    -> nama_barang varchar (20) not null,
    -> harga decimal (22) not null,
    -> PRIMARY KEY (id_barang)
    -> );
Query OK, 0 rows affected (0.53 sec)
```

```
MariaDB [171111051_TOKO]> CREATE TABLE penjualan (
    -> id_pelanggan int not null,
    -> id_penjualan int not null,
    -> tanggal date not null,
    -> biaya_pengiriman decimal not null,
    -> jumlah_total decimal not null,
    -> PRIMARY KEY (id_penjualan)
    -> );
Query OK, 0 rows affected (0.27 sec)

MariaDB [171111051_TOKO]> CREATE TABLE item_pejualan (
    -> id_barang int not null,
    -> id_penjualan int not null,
    -> harga decimal (22) not null,
    -> kuantitas decimal (22) not null,
    -> jumlah_harga decimal (22)not null,
    -> FOREIGN KEY (id_barang) REFERENCES barang (id_barang),
    -> FOREIGN KEY (id_penjualan) REFERENCES penjualan (id_penjualan)
    -> );
Query OK, 0 rows affected (0.28 sec)
```

4. Membuat User dan memberi Hak akses pada user sesuai dengan kebutuhan

```
MariaDB [171111051_TOKO]> CREATE USER 'dede'@'localhost'IDENTIFIED BY '12345';
Query OK, 0 rows affected (0.09 sec)

MariaDB [171111051_TOKO]> GRANT ALL on 171111051_TOKO.pelanngan TO 'dede'@'localhost';
Query OK, 0 rows affected (0.07 sec)

MariaDB [171111051_TOKO]> CREATE USER 'alfian'@'localhost'IDENTIFIED BY '12345';
Query OK, 0 rows affected (0.00 sec)

MariaDB [171111051_TOKO]> GRANT update,delete on 171111051_TOKO.pelanggan TO 'alfian'@'localhost';
Query OK, 0 rows affected (0.00 sec)

MariaDB [171111051_TOKO]> CREATE USER 'varian'@'localhost'IDENTIFIED BY '12345';
Query OK, 0 rows affected (0.00 sec)

MariaDB [171111051_TOKO]> GRANT insert on 171111051_TOKO.pelanggan TO 'varian'@'localhost';lho
Query OK, 0 rows affected (0.00 sec)

MariaDB [171111051_TOKO]> GRANT insert on 171111051_TOKO.pelanggan TO 'varian'@'localhost';
Query OK, 0 rows affected (0.00 sec)

MariaDB [171111051_TOKO]> CREATE USER 'luqman'@'localhost'IDENTIFIED BY '12345';
Query OK, 0 rows affected (0.00 sec)

MariaDB [171111051_TOKO]> GRANT select on 171111051_TOKO.pelanggan TO 'luqman'@'localhost';
Query OK, 0 rows affected (0.00 sec)
```

5.

a. menambahkan field jenis_barang pada tabel barang

```
MariaDB [171111051_TOKO]> ALTER TABLE barang ADD jenis_barang varchar (20) not null;
Query OK, 0 rows affected (0.55 sec)
Records: 0  Duplicates: 0  Warnings: 0
```

b. mengubah harga pada tabel barang menjadi harga_barang

```
MariaDB [171111051_TOKO]> ALTER TABLE barang CHANGE harga harga_barang int not null;
Query OK, 0 rows affected (1.19 sec)
Records: 0  Duplicates: 0  Warnings: 0
```

c. mengubah dield telp (int) menjadi telepon_pelanggan varchar(20)

```
MariaDB [171111051_TOKO]> ALTER TABLE pelanggan CHANGE telp telepon_pelanggan varchar (20) not null;
Query OK, 0 rows affected (1.09 sec)
Records: 0  Duplicates: 0  Warnings: 0
```

d. menambah primary key pada tabel item_penjualan

```
MariaDB [171111051_TOKO]> ALTER TABLE item_penjualan ADD PRIMARY KEY (penjualan);
Query OK, 0 rows affected (0.44 sec)
Records: 0  Duplicates: 0  Warnings: 0
```

6. Backup Database

```
c:\xampp\mysql\bin>mysqldump -u root -p 171111051_TOKO > 171111051_TOKO.sql
Enter password:
```