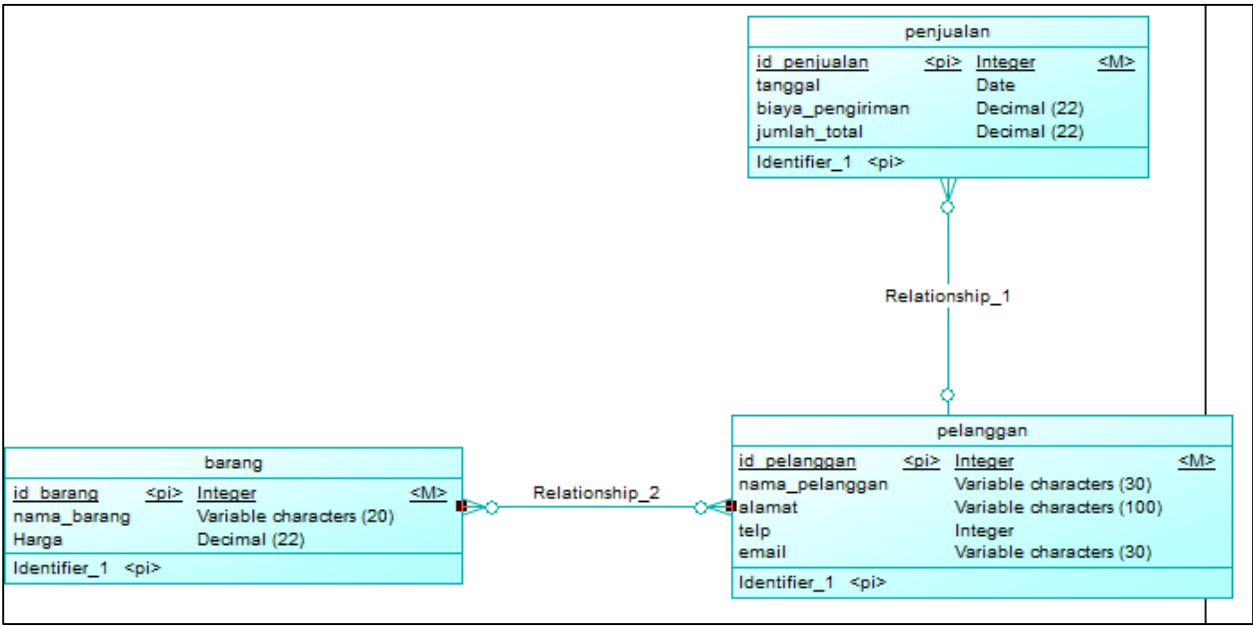


Responsi Basis Data

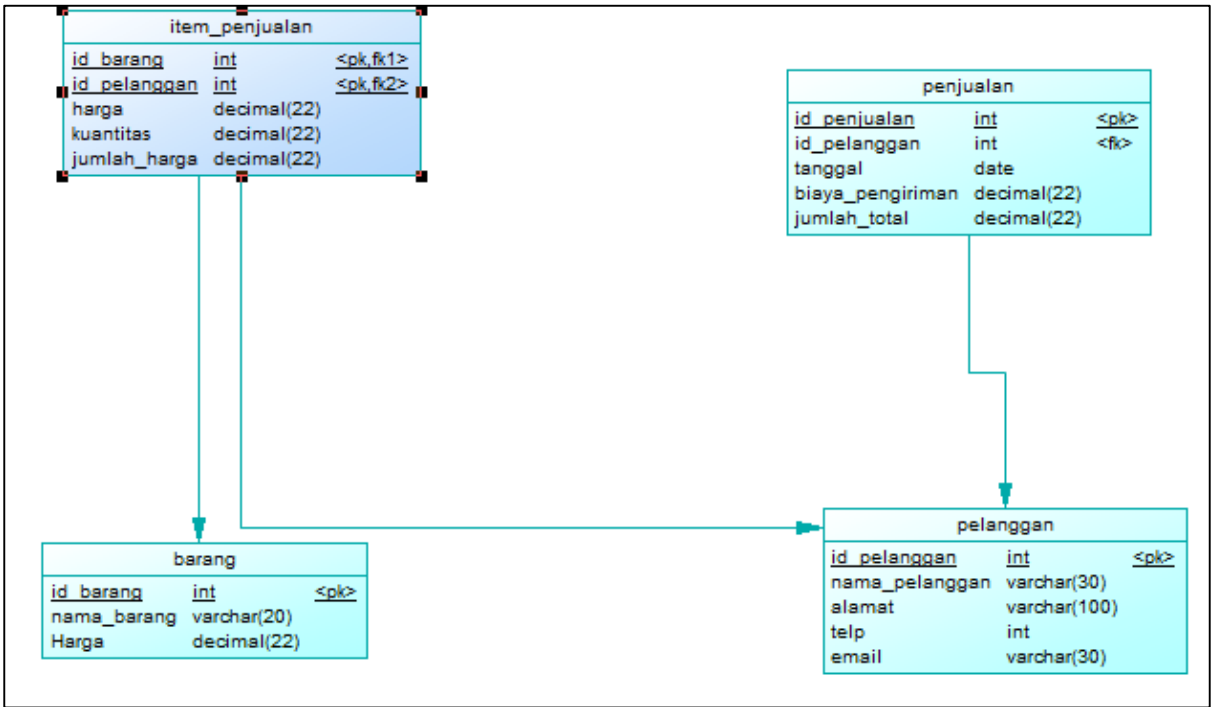
Oleh Panji Iman Baskoro
171111023/TI-A

NOMOR 1

Screenshot untuk CDM yang saya buat adalah sebagai berikut



Pada gambar tersebut dapat anda amati jika saya menggunakan relasi many to many antara *tabel barang* dan *tabel pelanggan*, hal ini bertujuan untuk menghasilkan tabel relasi unruk *tabel baru item_penjualan* seperti yang ada pada gambar bawah



NOMOR 2

Proses pembuatan database

```
MariaDB [(none)]> CREATE DATABASE 171111023_TOKO
-> ;
Query OK, 1 row affected (0.00 sec)

MariaDB [(none)]> use 171111023_TOKO
Database changed
```

NOMOR 3

Pengimplementasian pembuatan database sesuai dengan pdm yang telah di buat

```
MariaDB [(none)]> use 171111023_TOKO
Database changed
MariaDB [171111023_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 (0.20 sec)

MariaDB [171111023_TOKO]> desc barang;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id_barang | int(11) | NO | PRI | NULL | |
| nama_barang | varchar(20) | NO | | NULL | |
| Harga | decimal(22,0) | NO | | NULL | |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.04 sec)

MariaDB [171111023_TOKO]> _
```

```
MariaDB [171111023_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 (0.19 sec)

MariaDB [171111023_TOKO]> desc pelanggan;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id_pelanggan | int(11) | NO | PRI | NULL | |
| nama_pelanggan | varchar(30) | NO | | NULL | |
| alamat | varchar(100) | NO | | NULL | |
| telp | int(11) | NO | | NULL | |
| email | varchar(30) | NO | | NULL | |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.01 sec)

MariaDB [171111023_TOKO]> _
```

```
MariaDB [171111023_TOKO]> create table penjualan(
-> id_penjualan int not null,
-> id_pelanggan int not null,
-> tanggal date not null,
-> biaya_pengiriman decimal(22) not null,
-> jumlah_total decimal(22) not null,
-> primary key (id_penjualan),
-> foreign key (id_pelanggan) references pelanggan(id_pelanggan));
Query OK, 0 rows affected (0.23 sec)

MariaDB [171111023_TOKO]> desc penjualan;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id_penjualan | int(11) | NO | PRI | NULL | |
| id_pelanggan | int(11) | NO | MUL | NULL | |
| tanggal | date | NO | | NULL | |
| biaya_pengiriman | decimal(22,0) | NO | | NULL | |
| jumlah_total | decimal(22,0) | NO | | NULL | |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

NOMOR 3

Pengimplementasian pembuatan database sesuai dengan pdm yang telah di buat

```
MariaDB [171111023_TOKO1]> create table item_penjualan(<br>  -> id_barang int not null,<br>  -> id_penjualan int not null,<br>  -> harga decimal (22) not null,<br>  -> kuantitas decimal (22) not null,<br>  -> jumlah_harga decimal (22) not null,<br>  -> foreign key (id_barang) references barang(id_barang),<br>  -> foreign key (id_penjualan) references penjualan(id_penjualan));<br>Query OK, 0 rows affected (0.17 sec)<br><br>MariaDB [171111023_TOKO1]> desc item_penjualan;<br>+-----+-----+-----+-----+-----+-----+<br>| Field      | Type          | Null | Key | Default | Extra |<br>+-----+-----+-----+-----+-----+-----+<br>| id_barang  | int(11)       | NO   | MUL | NULL    |       |<br>| id_penjualan | int(11)       | NO   | MUL | NULL    |       |<br>| harga      | decimal(22,0) | NO   |     | NULL    |       |<br>| kuantitas  | decimal(22,0) | NO   |     | NULL    |       |<br>| jumlah_harga | decimal(22,0) | NO   |     | NULL    |       |<br>+-----+-----+-----+-----+-----+-----+<br>5 rows in set (0.04 sec)
```

NOMOR 4

Membuat 4 user dengan hak akses yang berbeda-beda

```
MariaDB [(none)]> use 171111023_TOKO<br>Database changed<br>MariaDB [171111023_TOKO1]> create user 'teo'@'localhost' identified by 'teo';<br>Query OK, 0 rows affected (0.00 sec)<br><br>MariaDB [171111023_TOKO1]> create user 'stef'@'localhost' identified by 'stef';<br>Query OK, 0 rows affected (0.00 sec)<br><br>MariaDB [171111023_TOKO1]> create user 'tomas'@'localhost' identified by 'tomas';<br>Query OK, 0 rows affected (0.00 sec)<br><br>MariaDB [171111023_TOKO1]> create user 'hendra'@'localhost' identified by 'hendra';<br>Query OK, 0 rows affected (0.00 sec)
```

```
+-----+<br>| User      |<br>+-----+<br>| root      |<br>| root      |<br>| Adi       |<br>| Budi      |<br>| Rohman    |<br>| ade       |<br>| administrator |<br>| bijan     |<br>| desi      |<br>| hendra    |<br>| jojo      |<br>| joko      |<br>| panji     |<br>| pma       |<br>| root      |<br>| santoso   |<br>| stef      |<br>| teo       |<br>| tomas     |<br>+-----+<br>20 rows in set (0.00 sec)
```

Ketika saya meng-list isi dari tabel user maka user yang sudah saya buat akan muncul seperti gamabar di samping

NOMOR 4

Membuat 4 user dengan hak akses yang berbeda-beda

```
20 rows in set (0.00 sec)

MariaDB [171111023_TOKO1]> grant all on 171111023_TOKO.* to 'teo'@'localhost';
Query OK, 0 rows affected (0.00 sec)

MariaDB [171111023_TOKO1]> grant update on 171111023_TOKO.* to 'hendra'@'localhost';
Query OK, 0 rows affected (0.00 sec)

MariaDB [171111023_TOKO1]> grant select,create on 171111023_TOKO.* to 'stef'@'localhost';
Query OK, 0 rows affected (0.00 sec)
```

ERROR

```
MariaDB [171111023_TOKO1]> grant select,update,create,delete on 171111023_TOKO.*
to 'tomas'@'localhost';
Query OK, 0 rows affected (0.00 sec)

MariaDB [171111023_TOKO1]> _
```

NOMOR 5

Melakukan manipulasi pada tabel

```
MariaDB [171111023_TOKO1]> alter table barang add deskripsi varchar(100) not null
;
Query OK, 0 rows affected (0.32 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [171111023_TOKO1]> desc barang;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id_barang | int(11) | NO | PRI | NULL | |
| nama_barang | varchar(20) | NO | | NULL | |
| Harga | decimal(22,0) | NO | | NULL | |
| deskripsi | varchar(100) | NO | | NULL | |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)

MariaDB [171111023_TOKO1]>
```

NOMOR 5

Melakukan manipulasi pada tabel

```
MariaDB [171111023_TOKO1] > alter table barang change Harga harga decimal(22);
Query OK, 0 rows affected (0.33 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
MariaDB [171111023_TOKO1] > desc barang;
```

Field	Type	Null	Key	Default	Extra
id_barang	int(11)	NO	PRI	NULL	
nama_barang	varchar(20)	NO		NULL	
harga	decimal(22,0)	YES		NULL	
deskripsi	varchar(100)	NO		NULL	

```
4 rows in set (0.00 sec)
```

```
MariaDB [171111023_TOKO1] > _
```

```
MariaDB [171111023_TOKO1] > alter table pelanggan change telp telpon varchar (20);
```

```
Query OK, 0 rows affected (0.48 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
MariaDB [171111023_TOKO1] > desc pelanggan;
```

Field	Type	Null	Key	Default	Extra
id_pelanggan	int(11)	NO	PRI	NULL	
nama_pelanggan	varchar(30)	NO		NULL	
alamat	varchar(100)	NO		NULL	
telpon	varchar(20)	YES		NULL	
email	varchar(30)	NO		NULL	

```
5 rows in set (0.03 sec)
```

```
MariaDB [171111023_TOKO1] >
```

```
ERROR 1060 (42S21): Duplicate column name 'id_penjualan'
```

```
MariaDB [171111023_TOKO1] > alter table item_penjualan add id_item int not null;
Query OK, 0 rows affected (0.45 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
MariaDB [171111023_TOKO1] > desc item_penjualan;
```

Field	Type	Null	Key	Default	Extra
id_barang	int(11)	NO	MUL	NULL	
id_penjualan	int(11)	NO	MUL	NULL	
harga	decimal(22,0)	NO		NULL	
kuantitas	decimal(22,0)	NO		NULL	
jumlah_harga	decimal(22,0)	NO		NULL	
id_item	int(11)	NO		NULL	

```
6 rows in set (0.00 sec)
```

```
MariaDB [171111023_TOKO1] > _
```

```
MariaDB [171111023_TOKO1] > alter table item_penjualan add primary key (id_item);
Query OK, 0 rows affected (0.28 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
MariaDB [171111023_TOKO1] > desc item_penjualan;
```

Field	Type	Null	Key	Default	Extra
id_barang	int(11)	NO	MUL	NULL	
id_penjualan	int(11)	NO	MUL	NULL	
harga	decimal(22,0)	NO		NULL	
kuantitas	decimal(22,0)	NO		NULL	
jumlah_harga	decimal(22,0)	NO		NULL	
id_item	int(11)	NO	PRI	NULL	

```
6 rows in set (0.00 sec)
```

```
MariaDB [171111023_TOKO1] >
```

NOMOR 6

Backup Database

Pada gambar di bawah adalah hasil proses backup dan dapat anda amati di list file directory di bawah

```
C:\Users\bijan>mysqldump -u root -p 171111023_TOKO > 171111023_TOKO.sql
Enter password:

C:\Users\bijan>dir
Volume in drive C has no label.
Volume Serial Number is AA50-2207

Directory of C:\Users\bijan

11/05/2018  14:06    <DIR>          .
11/05/2018  14:06    <DIR>          ..
21/03/2018  11:16    <DIR>          .android
10/05/2018  07:04    <DIR>          .cache
24/02/2018  14:51    <DIR>          .cargo
23/02/2018  22:57    <DIR>          .config
17/03/2018  10:31    <DIR>          .gradle
24/02/2018  14:51    <JUNCTION>    .multirust [\\??\C:\Users\bijan\.rustup]
07/03/2018  22:28    <DIR>          .nbi
23/02/2018  22:56             5 .node_repl_history
24/02/2018  14:52    <DIR>          .rustup
09/03/2018  10:41    <DIR>          .tooling
04/05/2018  17:45    <DIR>          .VirtualBox
22/02/2018  22:49    <DIR>          .vscode
11/05/2018  14:06             4.698 171111023_TOKO.sql
12/04/2018  07:11             3.556 21042018-710_prakbasdat.sql
20/03/2018  22:42              67 composer.json
20/03/2018  22:46          46.785 composer.lock
22/02/2018  16:02    <DIR>          Contacts
10/05/2018  20:33    <DIR>          Desktop
07/05/2018  13:02    <DIR>          Documents
10/05/2018  20:34    <DIR>          Downloads
22/02/2018  16:02    <DIR>          Favorites
03/03/2018  18:03             9.867 index.html
07/05/2018  13:34    <DIR>          Links
22/02/2018  16:02    <DIR>          Music
06/05/2018  19:27    <DIR>          Pictures
22/02/2018  16:02    <DIR>          Saved Games
22/02/2018  16:48    <DIR>          Searches
20/03/2018  22:46    <DIR>          vendor
10/05/2018  20:52    <DIR>          Videos
04/05/2018  10:50    <DIR>          VirtualBox VMs
        6 File(s)          64.978 bytes
       26 Dir(s) 139.618.095.104 bytes free

C:\Users\bijan>
```

Ditulis oleh :

Panji Iman Baskoro

TI A

171111023

Blog :

<https://bijancot.me>

Portofolio :

<http://bijancot.github.io>