

KUIS 2 PRAKTIKUM BASIS DATA

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No. Absen : 7

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STRUK PEMBAYARAN TAGIHAN LISTRIK

ID PELANGGAN	: 511810935121	BL/TH	: JAN2012
NAMA	: SLAMET WIBISONO	STAND METER	: 01514800-01521900
TARIF/DAYA	: R1/900	NON SUBSIDI	: Rp.0,00
RP. TAGIHAN	: Rp.50.485,00	RP. BK	: Rp.0,00
MKM REF	: 20120101155410000000000154904550		

PLN menyatakan struk ini sebagai bukti pembayaran yang sah, mohon disimpan

ADMIN BANK	: Rp.1.600,00
TOTAL BAYAR	: Rp.52.085,00

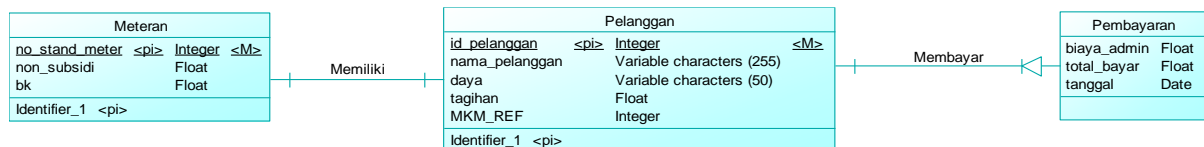
TERIMA KASIH

"Rincian tagihan dapat dilihat di www.pln.co.id atau PLN terdekat"
INFORMASI HUB : 123

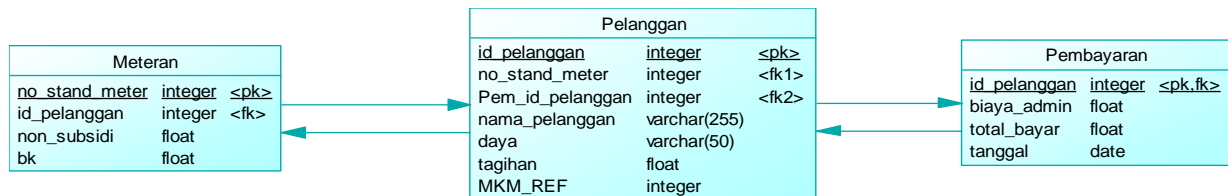
1. Buatlah struktur basis data berdasarkan struk pembayaran listrik diatas berupa CDM dan PDM!
2. Buat implementasi ke basis data tersebut ke dalam MySQL! Lampirkan script sql anda!
3. Buat query untuk menampilkan data seperti pada struk tersebut! Lampirkan query dan bukti hasil querynya!

Jawaban!!

1. CDM



PDM



2.

```

MariaDB [(none)]> CREATE DATABASE Struk_PLN;
Query OK, 1 row affected (0.001 sec)

MariaDB [(none)]> show databases;
+-----+
| Database |
+-----+
| penjualan_produk |
| akademik |
| db_polinema |
| information_schema |
| mysql |
| performance_schema |
| phpmyadmin |
| struk_pln |
| test |
+-----+
9 rows in set (0.004 sec)

MariaDB [(none)]> use struk_pln;
Database changed
MariaDB [struk_pln]> create table pelanggan (id_pelanggan int primary key, nama_pelanggan varchar(255), daya varchar(50), tagihan float, MKM_REF int);
Query OK, 0 rows affected (0.012 sec)

MariaDB [struk_pln]> select * table pelanggan;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'table pelanggan' at line 1
MariaDB [struk_pln]> select * from pelanggan;
Empty set (0.006 sec)

MariaDB [struk_pln]> insert into pelanggan (id_pelanggan , nama_pelanggan, daya, tagihan, MKM_REF) values (511810935121, 'SLAMET WIBISONO', 'R1/900', 50485, 20120101155410000000000154904550);
Query OK, 1 row affected, 3 warnings (0.004 sec)
    
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MariaDB [struk_pln]> select * from pelanggan;
+-----+-----+-----+-----+
| id_pelanggan | nama_pelanggan | daya | tagihan | MKM_REF |
+-----+-----+-----+-----+
| 2147483647 | SLAMET WIBISONO | R1/900 | 50485 | 2147483647 |
+-----+-----+-----+-----+
1 row in set (0.000 sec)

MariaDB [struk_pln]> CREATE TABLE meteran (no_stand_meter int primary key, non_subsid_i float, bk float);
Query OK, 0 rows affected (0.014 sec)

MariaDB [struk_pln]> insert into meteran (no_stand_meter, non_subsid_i, bk) values (01514800-01521900), (0, 0);
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near '(0, 0)' at line 1
MariaDB [struk_pln]> insert into meteran (no_stand_meter, non_subsid_i, bk) values (01514800-01521900, 0, 0);
Query OK, 1 row affected (0.004 sec)

MariaDB [struk_pln]> select * from meteran;
+-----+-----+-----+
| no_stand_meter | non_subsid_i | bk |
+-----+-----+-----+
| -7100 | 0 | 0 |
+-----+-----+-----+
1 row in set (0.000 sec)

MariaDB [struk_pln]> update meteran set no_stand_meter = 0151480001521900 where no_stand_meter = -7100;
Query OK, 1 row affected, 1 warning (0.004 sec)
Rows matched: 1 Changed: 1 Warnings: 1

MariaDB [struk_pln]> select * from meteran;
+-----+-----+-----+
| no_stand_meter | non_subsid_i | bk |
+-----+-----+-----+
| 2147483647 | 0 | 0 |
+-----+-----+-----+
1 row in set (0.000 sec)

MariaDB [struk_pln]> alter table meteran modify no_stand_meter varchar(255);
Query OK, 1 row affected (0.042 sec)
Records: 1 Duplicates: 0 Warnings: 0

MariaDB [struk_pln]> update meteran set no_stand_meter = 01514800-01521900 where no_stand_meter = 2147483647;
Query OK, 1 row affected (0.004 sec)
Rows matched: 1 Changed: 1 Warnings: 0

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MariaDB [struk_pln]> select * from meteran;
+-----+-----+-----+
| no_stand_meter | non_subsid_i | bk |
+-----+-----+-----+
| -7100 | 0 | 0 |
+-----+-----+-----+
1 row in set (0.000 sec)

MariaDB [struk_pln]> update meteran set no_stand_meter = '01514800-01521900' where no_stand_meter = 2147483647;
Query OK, 0 rows affected (0.000 sec)
Rows matched: 0 Changed: 0 Warnings: 0

MariaDB [struk_pln]> select * from meteran;
+-----+-----+-----+
| no_stand_meter | non_subsid_i | bk |
+-----+-----+-----+
| -7100 | 0 | 0 |
+-----+-----+-----+
1 row in set (0.000 sec)

MariaDB [struk_pln]> update meteran set no_stand_meter = '01514800-01521900' where no_stand_meter = -7100;
Query OK, 1 row affected (0.002 sec)
Rows matched: 1 Changed: 1 Warnings: 0

MariaDB [struk_pln]> select * from meteran;
+-----+-----+-----+
| no_stand_meter | non_subsid_i | bk |
+-----+-----+-----+
| 01514800-01521900 | 0 | 0 |
+-----+-----+-----+
1 row in set (0.000 sec)

MariaDB [struk_pln]> create table pembayaran (pem_id_pelanggan int, biaya_admin float, total_bayar float, tanggal date);
Query OK, 0 rows affected (0.014 sec)

MariaDB [struk_pln]> alter table pembayaran foreign key(pem_id_pelanggan) references pelanggan(id_pelanggan);
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'foreign key(pem_id_pelanggan) references pelanggan(id_pelanggan)' at line 1
MariaDB [struk_pln]> alter table pembayaran add foreign key (pem_id_pelanggan) references pelanggan (id_pelanggan);
Query OK, 0 rows affected (0.045 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [struk_pln]> insert into pembayaran (pem_id_pelanggan, biaya_admin, total_bayar, tanggal) values (2147483647, 1.600, 2.085, '2012-01-01');
Query OK, 1 row affected (0.005 sec)

```

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MariaDB [struk_pln]> insert into pembayaran (pem_id_pelanggan, biaya_admin, total_bayar, tanggal) values (2147483647, 1.600, 2.085, '2012-01-01');
Query OK, 1 row affected (0.005 sec)

MariaDB [struk_pln]> select * from pembayaran;
+-----+-----+-----+-----+
| pem_id_pelanggan | biaya_admin | total_bayar | tanggal |
+-----+-----+-----+-----+
| 2147483647 | 1.6 | 2.085 | 2012-01-01 |
+-----+-----+-----+-----+
1 row in set (0.000 sec)

```

3.

```
MariaDB [struk_pln]> select * from pelanggan;
+-----+-----+-----+-----+-----+
| id_pelanggan | nama_pelanggan | daya | tagihan | MKM_REF |
+-----+-----+-----+-----+-----+
| 2147483647 | SLAMET WIBISONO | R1/900 | 50485 | 2147483647 |
+-----+-----+-----+-----+-----+
1 row in set (0.000 sec)

MariaDB [struk_pln]> select * from meteran;
+-----+-----+-----+
| no_stand_meter | non_subsidi | bk |
+-----+-----+-----+
| 01514800-01521900 | 0 | 0 |
+-----+-----+-----+
1 row in set (0.000 sec)

MariaDB [struk_pln]> select * from pembayaran;
+-----+-----+-----+-----+
| pem_id_pelanggan | biaya_admin | total_bayar | tanggal |
+-----+-----+-----+-----+
| 2147483647 | 1.6 | 2.085 | 2012-01-01 |
+-----+-----+-----+-----+
1 row in set (0.000 sec)

MariaDB [struk_pln]>
```