View & Transacstion

Worksheet 5

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SOAL 5.1

Buatlah view berdasarkan query yang menampilkan data berikut ini:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Pesanan** | | | **Pelanggan** | | **Kartu** | |
| id | tanggal | total | kode | nama | nama kartu | diskon |

*CREATE VIEW ...*

*CREATE VIEW pesanan\_pelanggan\_kartu*

*AS SELECT pesanan.id, pesanan.tanggal, pesanan. total, pelanggan.kode, pelanggan.nama,*

*kartu.nama as nama\_kartu, kartu.diskon*

*FROM pesanan INNER JOIN pelanggan ON pesanan.pelanggan\_id = pelanggan.id*

*INNER JOIN kartu ON pelanggan.kartu\_id = kartu.id;*

*Select \* FROM pesanan\_pelanggan\_kartu*

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Pembelian** | | | | | **Produk** | **Vendor** | |
| id | tanggal | nomor | jumlah | harga | nama | nama | Kontak |

MariaDB [dbpos3]> create view pembelian\_produk\_vendor

-> as select pembelian.id, pembelian.tanggal, pembelian.nomor, pembelian.jumlah, pembelian.harga,

-> produk.nama,

-> vendor.nama as nama\_vendor, vendor.kontak

-> from pembelian inner join produk on pembelian.produk\_id = produk.id

-> inner join vendor on pembelian.vendor\_id = vendor.id;

Query OK, 0 rows affected (0.008 sec)

MariaDB [dbpos3]> select \* from pesanan\_pelanggan\_kartu;

+----+------------+---------+------+---------------+---------------+--------+

| id | tanggal | total | kode | nama | nama\_kartu | diskon |

+----+------------+---------+------+---------------+---------------+--------+

| 1 | 2015-11-04 | 9720000 | C001 | Agung Sedayu | Gold Utama | 0.05 |

| 2 | 2015-11-04 | 17500 | C003 | Sekar Mirah | Gold Utama | 0.05 |

| 3 | 2015-11-04 | 0 | C006 | Gayatri Dwi | Gold Utama | 0.05 |

| 4 | 2015-11-04 | 0 | C007 | Dewi Gyat | Gold Utama | 0.05 |

| 5 | 2015-11-04 | 0 | C010 | Cassanndra | Gold Utama | 0.05 |

| 6 | 2015-11-04 | 0 | C002 | Pandan Wangi | Platinum Jaya | 0.1 |

| 7 | 2015-11-04 | 0 | C005 | Pradabashu | Platinum Jaya | 0.1 |

| 8 | 2015-11-04 | 0 | C004 | Swandaru Geni | Non Member | 0 |

| 9 | 2015-11-04 | 0 | C008 | Andre Haru | Non Member | 0 |

| 10 | 2015-11-04 | 0 | C009 | Ahmad Hasan | Non Member | 0 |

+----+------------+---------+------+---------------+---------------+--------+

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Pesanan** | | | **Pelanggan** | **Produk** | | **Jenis produk** | **Pesanan items** | |
| id | tanggal | total | nama | kode | nama | nama | qty | harga\_jual |

MariaDB [dbpos3]> create view pesanan\_pelanggan\_pduk\_jns\_prduk\_pesanan\_items

-> as select pesanan.id, pesanan.tanggal, pesanan.total,

-> pelanggan.nama as nama\_pelanggan,

-> produk.kode, produk.nama as nama\_produk,

-> jenis\_produk.nama as nama\_jenis\_produk,

-> pesanan\_items.qty, pesanan\_items.harga as harga\_jual

-> from pesanan inner join pelanggan on pesanan.pelanggan\_id = pelanggan.id

-> inner join pesanan\_items on pesanan.id = pesanan\_items.pesanan\_id

-> inner join produk on pesanan\_items.produk\_id = produk.id

-> inner join jenis\_produk on produk.jenis\_produk\_id = jenis\_produk.id;

Query OK, 0 rows affected (0.012 sec)

MariaDB [dbpos3]> select \* from pesanan\_pelanggan\_pduk\_jns\_prduk\_pesanan\_items;

+----+------------+---------+----------------+------+------------------+-------------------+------+------------+

| id | tanggal | total | nama\_pelanggan | kode | nama\_produk | nama\_jenis\_produk | qty | harga\_jual |

+----+------------+---------+----------------+------+------------------+-------------------+------+------------+

| 1 | 2015-11-04 | 9720000 | Agung Sedayu | TV01 | Televisi 21 inch | elektronik | 1 | 5040000 |

| 1 | 2015-11-04 | 9720000 | Agung Sedayu | K001 | Kulkas 2 pintu | elektronik | 1 | 4680000 |

| 3 | 2015-11-04 | 0 | Gayatri Dwi | TV01 | Televisi 21 inch | elektronik | 1 | 5040000 |

| 2 | 2015-11-04 | 17500 | Sekar Mirah | TK01 | Teh Kotak | minuman | 5 | 3500 |

| 3 | 2015-11-04 | 0 | Gayatri Dwi | TK01 | Teh Kotak | minuman | 10 | 3500 |

| 5 | 2015-11-04 | 0 | Cassanndra | TK01 | Teh Kotak | minuman | 10 | 3500 |

| 6 | 2015-11-04 | 0 | Pandan Wangi | TK01 | Teh Kotak | minuman | 20 | 3500 |

+----+------------+---------+----------------+------+------------------+-------------------+------+------------+

7 rows in set (0.008 sec)

SOAL 5.2

1. Buatlah sebuah transaction dengan skenario-skenario statement sebagai berikut:

* Mulai transaction

MariaDB [dbpos3]> start transaction

-> ;

Query OK, 0 rows affected (0.000 sec)

* Insert data produk sebanyak 3 record

MariaDB [dbpos3]> insert into produk (kode, nama, harga\_beli, harga\_jual, stok, min\_stok, jenis\_produk\_id) values

-> ('MN01', 'Monitor', 1000000, 1200000, 6, 5, 5),

-> ('M002', 'Meja Kerja', 4000000, 4500000, 20, 2, 2),

-> ('L005', 'Laptop Asus', 8000000, 7500000, 11, 3, 5);

Query OK, 3 rows affected (0.004 sec)

Records: 3 Duplicates: 0 Warnings: 0

MariaDB [dbpos3]> select \* from produk;

+----+------+------------------+------------+------------+------+----------+-----------------+

| id | kode | nama | harga\_beli | harga\_jual | stok | min\_stok | jenis\_produk\_id |

+----+------+------------------+------------+------------+------+----------+-----------------+

| 1 | TV01 | Televisi 21 inch | 3500000 | 5040000 | 5 | 2 | 1 |

| 2 | TV02 | Televisi 40 inch | 5500000 | 7440000 | 4 | 2 | 1 |

| 3 | K001 | Kulkas 2 pintu | 3500000 | 4680000 | 6 | 2 | 1 |

| 4 | M001 | Meja Makan | 500000 | 600000 | 4 | 3 | 2 |

| 5 | TK01 | Teh Kotak | 3000 | 3500 | 6 | 10 | 4 |

| 6 | PC01 | PC Desktop HP | 7000000 | 9600000 | 9 | 2 | 5 |

| 7 | TB01 | Teh Botol | 2000 | 2500 | 53 | 10 | 4 |

| 8 | AC01 | Notebook Acer | 8000000 | 10800000 | 7 | 2 | 5 |

| 9 | LN01 | Notebook Lenovo | 9000000 | 12000000 | 9 | 2 | 5 |

| 10 | L004 | Laptop HP | 12000000 | 13000000 | 20 | 5 | 5 |

| 11 | MN01 | Monitor | 1000000 | 1200000 | 6 | 5 | 5 |

| 12 | M002 | Meja Kerja | 4000000 | 4500000 | 20 | 2 | 2 |

| 13 | L005 | Laptop Asus | 8000000 | 7500000 | 11 | 3 | 5 |

+----+------+------------------+------------+------------+------+----------+-----------------+

13 rows in set (0.000 sec)

* Update data stok salah satu produk

MariaDB [dbpos3]> update produk set harga\_jual = 4000 where id = 7;

Query OK, 1 row affected (0.003 sec)

Rows matched: 1 Changed: 1 Warnings: 0

MariaDB [dbpos3]> select \* from produk;

+----+------+------------------+------------+------------+------+----------+-----------------+

| id | kode | nama | harga\_beli | harga\_jual | stok | min\_stok | jenis\_produk\_id |

+----+------+------------------+------------+------------+------+----------+-----------------+

| 1 | TV01 | Televisi 21 inch | 3500000 | 5040000 | 5 | 2 | 1 |

| 2 | TV02 | Televisi 40 inch | 5500000 | 7440000 | 4 | 2 | 1 |

| 3 | K001 | Kulkas 2 pintu | 3500000 | 4680000 | 6 | 2 | 1 |

| 4 | M001 | Meja Makan | 500000 | 600000 | 4 | 3 | 2 |

| 5 | TK01 | Teh Kotak | 3000 | 3500 | 6 | 10 | 4 |

| 6 | PC01 | PC Desktop HP | 7000000 | 9600000 | 9 | 2 | 5 |

| 7 | TB01 | Teh Botol | 2000 | 4000 | 53 | 10 | 4 |

| 8 | AC01 | Notebook Acer | 8000000 | 10800000 | 7 | 2 | 5 |

| 9 | LN01 | Notebook Lenovo | 9000000 | 12000000 | 9 | 2 | 5 |

| 10 | L004 | Laptop HP | 12000000 | 13000000 | 20 | 5 | 5 |

| 11 | MN01 | Monitor | 1000000 | 1200000 | 6 | 5 | 5 |

| 12 | M002 | Meja Kerja | 4000000 | 4500000 | 20 | 2 | 2 |

| 13 | L005 | Laptop Asus | 8000000 | 7500000 | 11 | 3 | 5 |

+----+------+------------------+------------+------------+------+----------+-----------------+

13 rows in set (0.001 sec)

* Buat savepoint

MariaDB [dbpos3]> savepoint delete\_pembayaran;

Query OK, 0 rows affected (0.000 sec)

* Hapus salah satu data pembayaran

MariaDB [dbpos3]> insert into pembayaran (id, nokuitansi, tanggal, jumlah, ke, pesanan\_id) values

-> (1, 'K001', '2022-01-12', 1200000, 1, 1),

-> (2, 'K002', '2022-11-12', 1600000, 2, 2);

Query OK, 2 rows affected (0.008 sec)

Records: 2 Duplicates: 0 Warnings: 0

MariaDB [dbpos3]> delete from pembayaran where id = 2;

Query OK, 1 row affected (0.004 sec)

MariaDB [dbpos3]> select \* from pembayaran;

+----+------------+------------+---------+------+------------+

| id | nokuitansi | tanggal | jumlah | ke | pesanan\_id |

+----+------------+------------+---------+------+------------+

| 1 | K001 | 2022-01-12 | 1200000 | 1 | 1 |

+----+------------+------------+---------+------+------------+

1 row in set (0.000 sec)

* Kembali ke savepoint

MariaDB [dbpos3]> rollback;

Query OK, 0 rows affected (0.000 sec)

MariaDB [dbpos3]> select \* from pembayaran;

+----+------------+------------+---------+------+------------+

| id | nokuitansi | tanggal | jumlah | ke | pesanan\_id |

+----+------------+------------+---------+------+------------+

| 1 | K001 | 2022-01-12 | 1200000 | 1 | 1 |

+----+------------+------------+---------+------+------------+

1 row in set (0.001 sec)

* Update data iuran salah satu kartu

MariaDB [dbpos3]> select \* from kartu;

+----+------+---------------+--------+--------+

| id | kode | nama | diskon | iuran |

+----+------+---------------+--------+--------+

| 1 | GOLD | Gold Utama | 0.05 | 100000 |

| 2 | PLAT | Platinum Jaya | 0.1 | 150000 |

| 3 | SLV | Silver | 0.025 | 50000 |

| 4 | NO | Non Member | 0 | 0 |

+----+------+---------------+--------+--------+

4 rows in set (0.005 sec)

MariaDB [dbpos3]> update kartu set diskon = 0.02 where nama = 'Non Member';

Query OK, 1 row affected (0.005 sec)

Rows matched: 1 Changed: 1 Warnings: 0

MariaDB [dbpos3]> select \* from kartu;

+----+------+---------------+--------+--------+

| id | kode | nama | diskon | iuran |

+----+------+---------------+--------+--------+

| 1 | GOLD | Gold Utama | 0.05 | 100000 |

| 2 | PLAT | Platinum Jaya | 0.1 | 150000 |

| 3 | SLV | Silver | 0.025 | 50000 |

| 4 | NO | Non Member | 0.02 | 0 |

+----+------+---------------+--------+--------+

4 rows in set (0.001 sec)

* Akhiri transaction dengan commit

MariaDB [dbpos3]> commit;

Query OK, 0 rows affected (0.000 sec)

*START TRANSACTION ...*