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;*

*MariaDB [dbkoperasi]> 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 |*

*+----+------------+---------+------+---------------+---------------+--------+*

*10 rows in set (0.002 sec)*

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

MariaDB [dbkoperasi]> CREATE VIEW pembelian\_produk\_vendor

-> AS

-> SELECT

-> pembelian.id,

-> pembelian.tanggal,

-> pembelian.nomor,

-> pembelian.jumlah,

-> pembelian.harga,

-> produk.nama AS nama\_produk,

-> 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 (0.005 sec)

MariaDB [dbkoperasi]> select \* from pembelian\_produk\_vendor;

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

| id | tanggal | nomor | jumlah | harga | nama\_produk | nama\_vendor | kontak |

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

| 1 | 2019-10-10 | P001 | 2 | 3500000 | Televisi 21 inch | PT Guna Samudra | Ali Nurdin |

| 2 | 2019-11-20 | P002 | 5 | 5500000 | Televisi 40 inch | PT Pondok C9 | Putri Ramadhani |

| 3 | 2019-12-12 | P003 | 5 | 5400000 | Televisi 40 inch | PT Guna Samudra | Ali Nurdin |

| 4 | 2020-01-20 | P004 | 200 | 1800 | Teh Botol | CV Jaya Raya Semesta | Dwi Rahayu |

| 5 | 2020-01-20 | P005 | 100 | 2300 | Teh Kotak | CV Jaya Raya Semesta | Dwi Rahayu |

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

5 rows in set (0.001 sec)

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

MariaDB [dbkoperasi]> CREATE VIEW pesanan\_pelanggan\_jenis\_produk\_pesanan\_items

-> AS

-> SELECT

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

-> pelanggan.nama,

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

-> jenis\_produk.nama AS 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 (0.007 sec)

MariaDB [dbkoperasi]> select \* from pesanan\_pelanggan\_jenis\_produk\_pesanan\_items;

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

| id | tanggal | total | nama | kode | nama\_produk | 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 (0.002 sec)

SOAL 5.2

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

* Mulai transaction

MariaDB [dbpos1]> START TRANSACTION;

Query OK, 0 rows affected (0.000 sec)

* Insert data produk sebanyak 3 record

MariaDB [dbkoperasi]> INSERT INTO produk (kode, nama, harga\_beli, harga\_jual, stok, min\_stok, jenis\_produk\_id) VALUES

-> ('A001', 'Asus Rog', 4000000, 5000000, 4, 2, 2),

-> ('A002', 'Asus Rog Strix', 8000000, 10000000, 4, 2, 2),

-> ('A003', 'Asus Rog zephyrus', 10000000, 15000000, 3, 1, 1);

Query OK, 3 rows affected (0.004 sec)

Records: 3 Duplicates: 0 Warnings: 0

MariaDB [dbpos1]> 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 | A001 | Asus Rog | 4000000 | 5000000 | 10 | 2 | 2 |

| 12 | A002 | Asus Rog Strix | 8000000 | 10000000 | 4 | 2 | 2 |

| 13 | A003 | Asus Rog zephyrus | 10000000 | 15000000 | 3 | 1 | 1 |

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

13 rows in set (0.000 sec)

* Update data stok salah satu produk

MariaDB [dbpos1]> UPDATE produk

-> SET stok = 15

-> WHERE nama = 'Asus Rog';

Query OK, 1 row affected (0.002 sec)

Rows matched: 1 Changed: 1 Warnings: 0

MariaDB [dbpos1]> 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 | A001 | Asus Rog | 4000000 | 5000000 | 15 | 2 | 2 |

| 12 | A002 | Asus Rog Strix | 8000000 | 10000000 | 4 | 2 | 2 |

| 13 | A003 | Asus Rog zephyrus | 10000000 | 15000000 | 3 | 1 | 1 |

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

13 rows in set (0.000 sec)

* Buat savepoint

MariaDB [dbpos1]> SAVEPOINT delete\_pembayaran;

Query OK, 0 rows affected (0.000 sec)

* Hapus salah satu data pembayaran

MariaDB [dbpos1]> DELETE FROM pembayaran

-> WHERE id = 5;

Query OK, 1 row affected (0.001 sec)

MariaDB [dbpos1]> SELECT \* FROM pembayaran;

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

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

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

| 6 | k002 | 2023-10-18 | 5000000 | 1 | 1 |

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

1 row in set (0.000 sec)

* Kembali ke savepoint

MariaDB [dbpos1]> ROLLBACK TO delete\_pembayaran;

Query OK, 0 rows affected (0.000 sec)

MariaDB [dbpos1]> SELECT \* FROM pembayaran;

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

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

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

| 5 | K001 | 2023-10-17 | 5000000 | 1 | 2 |

| 6 | k002 | 2023-10-18 | 5000000 | 1 | 1 |

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

2 rows in set (0.000 sec)

* Update data iuran salah satu kartu

MariaDB [dbpos1]> select \* from kartu;

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

| id | kode | nama | diskon | iuran |

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

| 1 | GOLD | Gold Utama | 0.05 | 15000 |

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

| 3 | SLV | Silver | 0.025 | 50000 |

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

| 8 | PGU | perunggu | 0.5 | 200 |

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

5 rows in set (0.000 sec)

MariaDB [dbpos1]> UPDATE kartu

-> SET iuran = 200000

-> WHERE nama = 'Gold Utama';

Query OK, 1 row affected (0.000 sec)

Rows matched: 1 Changed: 1 Warnings: 0

MariaDB [dbpos1]> select \* from kartu;

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

| id | kode | nama | diskon | iuran |

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

| 1 | GOLD | Gold Utama | 0.05 | 200000 |

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

| 3 | SLV | Silver | 0.025 | 50000 |

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

| 8 | PGU | perunggu | 0.5 | 200 |

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

5 rows in set (0.000 sec)

* Akhiri transaction dengan commit

MariaDB [dbpos1]> COMMIT;

Query OK, 0 rows affected (0.002 sec)