Join Table & View

Worksheet 4

Nama : Gigih Zhafrans Mukti Luhur

SOAL 4.1

Tampilkan data berikut menggunakan join table:

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

*MariaDB [dbpos\_sib6]> 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;*

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

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

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

*| 1 | 2015-11-04 | 9720000 | C001 | Agung Sedayu Group | 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 |*

*| 11 | 2015-11-04 | 30000 | C009 | Ahmad Hasan | Non Member | 0 |*

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

*11 rows in set (0.047 sec)*

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

MariaDB [dbpos\_sib6]> SELECT pembelian.id, pembelian.tanggal, pembelian.nomor, pembelian.jumlah, pembelian.harga,

-> produk.nama, vendor.nama, vendor.kontak FROM pembelian INNER JOIN produk

-> ON pembelian.produk\_id = produk.id

-> INNER JOIN vendor ON pembelian.vendor\_id = vendor.id;

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

| id | tanggal | nomor | jumlah | harga | nama | nama | kontak |

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

| 1 | 2019-10-10 | P001 | 2 | 3500000 | Televisi 21 inchs | 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 (0.008 sec)

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

MariaDB [dbpos\_sib6]> SELECT

-> pesanan.id AS pesanan\_id,

-> pesanan.tanggal AS tanggal\_pesanan,

-> pesanan.total AS total\_pesanan,

-> pelanggan.nama AS nama\_pelanggan,

-> produk.kode AS kode\_produk,

-> produk.nama AS nama\_produk,

-> jenis\_produk.nama AS jenis\_produk,

-> pesanan\_items.qty AS jumlah\_pesanan,

-> pesanan\_items.harga

-> FROM

-> pesanan

-> JOIN

-> pelanggan ON pesanan.pelanggan\_id = pelanggan.id

-> JOIN

-> pesanan\_items ON pesanan.id = pesanan\_items.pesanan\_id

-> JOIN

-> produk ON pesanan\_items.produk\_id = produk.id

-> JOIN

-> jenis\_produk ON produk.jenis\_produk\_id = jenis\_produk.id;

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

| pesanan\_id | tanggal\_pesanan | total\_pesanan | nama\_pelanggan | kode\_produk | nama\_produk | jenis\_produk | jumlah\_pesanan | harga |

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

| 1 | 2015-11-04 | 9720000 | Agung Sedayu Group | TV01 | Televisi 21 inchs | elektroniks | 1 | 5040000 |

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

| 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 |

| 3 | 2015-11-04 | 0 | Gayatri Dwi | TV01 | Televisi 21 inchs | elektroniks | 1 | 5040000 |

| 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 (0.001 sec)

SOAL 4.2

Buatlah view berdasarkan query yang menampilkan data berikut ini:

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

*MariaDB [dbpos\_sib6]> SELECT \* FROM pesanan\_pelanggan\_kartu;*

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

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

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

*| 1 | 2015-11-04 | 9720000 | C001 | Agung Sedayu Group | 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 |*

*| 11 | 2015-11-04 | 30000 | C009 | Ahmad Hasan | Non Member | 0 |*

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

*11 rows in set (0.002 sec)*

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

MariaDB [dbpos\_sib6]> CREATE VIEW pembelian\_produk\_vendor

-> AS SELECT p.id, p.tanggal, p.nomor, p.jumlah, p.harga,

-> pr.nama, v.nama as nama\_vendor, v.kontak FROM pembelian p INNER JOIN produk pr

-> ON p.produk\_id = pr.id

-> INNER JOIN vendor v ON p.vendor\_id = v.id;

Query OK, 0 rows affected (0.004 sec)

MariaDB [dbpos\_sib6]> SELECT \* FROM pembelian\_produk\_vendor;

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

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

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

| 1 | 2019-10-10 | P001 | 2 | 3500000 | Televisi 21 inchs | 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 (0.008 sec)

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

MariaDB [dbpos\_sib6]> CREATE VIEW view\_pesanan AS

-> SELECT

-> p.id,

-> p.tanggal,

-> p.total,

-> pl.nama AS nama\_pelanggan,

-> pr.kode AS kode\_produk,

-> pr.nama AS nama\_produk,

-> jp.nama AS nama\_jenis\_produk,

-> pi.qty,

-> pi.harga

-> FROM

-> pesanan p

-> JOIN

-> pelanggan pl ON p.pelanggan\_id = pl.id

-> JOIN

-> pesanan\_items pi ON p.id = pi.pesanan\_id

-> JOIN

-> produk pr ON pi.produk\_id = pr.id

-> JOIN

-> jenis\_produk jp ON pr.jenis\_produk\_id = jp.id;

Query OK, 0 rows affected (0.003 sec)

MariaDB [dbpos\_sib6]> SELECT \* FROM view\_pesanan;

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

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

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

| 1 | 2015-11-04 | 9720000 | Agung Sedayu Group | TV01 | Televisi 21 inchs | elektroniks | 1 | 5040000 |

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

| 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 |

| 3 | 2015-11-04 | 0 | Gayatri Dwi | TV01 | Televisi 21 inchs | elektroniks | 1 | 5040000 |

| 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 (0.001 sec)

Soal 4.3 Transaction

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

* Mulai transaction
* Insert data produk sebanyak 3 record
* Update data stok salah satu produk
* Buat savepoint
* Hapus salah satu data pembayaran
* Kembali ke savepoint
* Update data iuran salah satu kartu
* Akhiri transaction dengan commit

*MariaDB [dbpos\_sib6]> START TRANSACTION;*

*Query OK, 0 rows affected (0.000 sec)*

*MariaDB [dbpos\_sib6]> INSERT INTO produk (kode, nama, harga\_beli, harga\_jual, stok, min\_stok, foto, deskripsi, jenis\_produk\_id)*

*-> VALUES*

*-> ('PRD001', 'Product 1', 100, 150, 10, 5, 'product1.jpg', 'Description 1', 1),*

*-> ('PRD002', 'Product 2', 200, 250, 20, 10, 'product2.jpg', 'Description 2', 2),*

*-> ('PRD003', 'Product 3', 300, 350, 30, 15, 'product3.jpg', 'Description 3', 3);*

*ERROR 1062 (23000): Duplicate entry 'PRD001' for key 'kode\_UNIQUE'*

*MariaDB [dbpos\_sib6]> UPDATE produk SET stok = 25 WHERE kode = 'PRD002';*

*Query OK, 0 rows affected (0.003 sec)*

*Rows matched: 1 Changed: 0 Warnings: 0*

*MariaDB [dbpos\_sib6]> SAVEPOINT sp1;*

*Query OK, 0 rows affected (0.000 sec)*

*MariaDB [dbpos\_sib6]> DELETE FROM pembayaran WHERE id = 1;*

*Query OK, 1 row affected (0.000 sec)*

*MariaDB [dbpos\_sib6]> ROLLBACK TO SAVEPOINT sp1;*

*Query OK, 0 rows affected (0.000 sec)*

*MariaDB [dbpos\_sib6]> UPDATE kartu SET iuran = iuran + 2 WHERE kode = 'GOLD';*

*Query OK, 1 row affected (0.002 sec)*

*Rows matched: 1 Changed: 1 Warnings: 0*

*MariaDB [dbpos\_sib6]> COMMIT;*

*Query OK, 0 rows affected (0.002 sec)*

1. Berikan penjelasan kapan saat yang tepat menggunakan LOCK TABLES READ

Saat melakukan operasi pencarian atau statistik yang membutuhkan data yang konsisten dan tidak akan terganggu oleh transaksi lain yang sedang mengubahnya.

1. Berikan penjelasan kapan saat yang tepat menggunakan LOCK TABLES WRITE

Saat melakukan transaksi yang membutuhkan integritas data yang konsisten dan tidak akan terganggu oleh transaksi lain yang sedang mengubahnya.