**Tugas 4.1**

**1.** 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 (0.004 sec)

**2.** 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 (0.004 sec)

**3.** MariaDB [dbpos\_sib6]> SELECT

-> pesanan.id AS id,

-> pesanan.tanggal AS tanggal,

-> pesanan.total AS total,

-> pelanggan.nama AS nama,

-> produk.kode AS kode,

-> produk.nama AS nama,

-> jenis\_produk.nama AS nama,

-> pesanan\_items.qty AS 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;

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

| id | tanggal | total | nama | kode | nama | nama | qty | harga\_jual |

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

| 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)

**Tugas 4.2**

**1.** MariaDB [dbpos\_sib6]> 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;

Query OK, 0 rows affected (0.004 sec)

**2.** 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 (0.006 sec)

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

-> SELECT

-> pesanan.id,

-> pesanan.tanggal,

-> pesanan.total,

-> pelanggan.nama AS nama\_pelanggan,

-> 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 (0.005 sec)

**Tugas 4.3**

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

Query OK, 0 rows affected (0.001 sec)

MariaDB [dbpos\_sib6]> INSERT INTO jenis\_produk (nama) VALUES ('P

roduk A');

Query OK, 1 row affected (0.001 sec)

MariaDB [dbpos\_sib6]> INSERT INTO jenis\_produk (nama) VALUES ('Produk B');

Query OK, 1 row affected (0.000 sec)

MariaDB [dbpos\_sib6]> INSERT INTO jenis\_produk (nama) VALUES ('Produk C');

Query OK, 1 row affected (0.001 sec)

MariaDB [dbpos\_sib6]> UPDATE jenis\_produk SET nama = 'Produk 1'

WHERE id = 10;

Query OK, 1 row affected (0.000 sec)

Rows matched: 1 Changed: 1 Warnings: 0

MariaDB [dbpos\_sib6]> SAVEPOINT before\_delete\_pembayaran;

Query OK, 0 rows affected (0.000 sec)

MariaDB [dbpos\_sib6]> DELETE FROM pembayaran WHERE id = 13;

Query OK, 0 rows affected (0.050 sec)

MariaDB [dbpos\_sib6]> ROLLBACK TO before\_delete\_pembayaran;

Query OK, 0 rows affected (0.002 sec)

MariaDB [dbpos\_sib6]> UPDATE kartu SET iuran = 120000 WHERE id =

14;

Query OK, 0 rows affected (0.000 sec)

Rows matched: 0 Changed: 0 Warnings: 0

MariaDB [dbpos\_sib6]> COMMIT;

Query OK, 0 rows affected (0.006 sec)

**2.** Saat yang tepat untuk menggunakan LOCK TABLES READ adalah ketika Anda ingin mengunci tabel dalam mode baca sementara untuk mencegah modifikasi data oleh sesi lain. Penguncian tabel dalam mode baca memungkinkan sesi untuk membaca data dari tabel tersebut tanpa diinterupsi oleh operasi penulisan dari sesi lain.

**3.** Saat yang tepat untuk menggunakan LOCK TABLES WRITE adalah ketika Anda ingin mengunci tabel dalam mode tulis sementara untuk mencegah pembacaan dan penulisan data oleh sesi lain. Penguncian tabel dalam mode tulis memungkinkan sesi untuk melakukan operasi penulisan pada tabel tersebut tanpa diinterupsi oleh sesi lain.