**Tugas 3.1**

**1.** MariaDB [dbpos\_sib6]> SELECT \* FROM produk WHERE harga\_beli \* stok > 20000000;

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

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

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

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

1 |

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

1 |

| 6 | PC01 | PC Desktop HP | 7000000 | 9984000 | 9 | 2 | NULL | NULL |

5 |

| 8 | AC01 | Notebook Acer S | 8000000 | 11232000 | 7 | 2 | NULL | NULL |

5 |

| 9 | LN01 | Notebook Lenovo | 9000000 | 12480000 | 9 | 2 | NULL | NULL |

5 |

| 11 | L005 | Laptop Lenovo | 13000000 | 16000000 | 5 | 2 | | NULL |

1 |

| 18 | L0015 | Laptop Asus | 3000000 | 5000000 | 10 | 20 | foto-65542ffa66604.jpg | NULL |

1 |

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

7 rows in set (0.001 sec)

**2.** MariaDB [dbpos\_sib6]> SELECT SUM(stok - min\_stok) as selisih from produk;

+---------+

| selisih |

+---------+

| 91 |

+---------+

1 row in set (0.001 sec)

**3.** MariaDB [dbpos\_sib6]> SELECT sum(stok) as total\_asset from produk;

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

| total\_asset |

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

| 193 |

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

1 row in set (0.000 sec)

**4.** MariaDB [dbpos\_sib6]> SELECT \* FROM pelanggan WHERE YEAR(tgl\_lahir) BETWEEN 1980 AND 1990;

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

| id | kode | nama | jk | tmp\_lahir | tgl\_lahir | email | kartu\_id |

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

| 3 | C003 | Sekar Mirah | P | Kediri | 1983-02-20 | mirah@yahoo.com | 1 |

| 4 | C004 | Swandaru Geni | L | Kediri | 1981-01-04 | swandaru@yahoo.com | 4 |

| 5 | C005 | Pradabashu | L | Pati | 1985-04-02 | prada85@gmail.com | 2 |

| 6 | C006 | Gayatri Dwi | P | Jakarta | 1987-11-28 | gaya87@gmail.com | 1 |

| 7 | C007 | Dewi Gyat | P | Jakarta | 1988-12-01 | giyat@gmail.com | 1 |

| 8 | C008 | Andre Haru | L | Surabaya | 1990-07-15 | andre.haru@gmail.com | 4 |

| 10 | C010 | Cassanndra | P | Belfast | 1990-11-20 | casa90@gmail.com | 1 |

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

7 rows in set (0.001 sec)

**5.** MariaDB [dbpos\_sib6]> SELECT \* FROM pelanggan WHERE YEAR(tgl\_lahir)=1998;

Empty set (0.001 sec)

**6.** MariaDB [dbpos\_sib6]> SELECT \* FROM pelanggan WHERE MONTH(tgl\_lahir)=08;

Empty set (0.000 sec)

**7.** MariaDB [dbpos\_sib6]> SELECT nama, tmp\_lahir, tgl\_lahir, (YEAR(NOW())-YEAR(tgl\_lahir)) AS umur FROM pelanggan;

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

| nama | tmp\_lahir | tgl\_lahir | umur |

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

| Agung Sedayu Group | Solo | 2010-01-01 | 14 |

| Pandan Wangi | Yogyakarta | 1950-01-01 | 74 |

| Sekar Mirah | Kediri | 1983-02-20 | 41 |

| Swandaru Geni | Kediri | 1981-01-04 | 43 |

| Pradabashu | Pati | 1985-04-02 | 39 |

| Gayatri Dwi | Jakarta | 1987-11-28 | 37 |

| Dewi Gyat | Jakarta | 1988-12-01 | 36 |

| Andre Haru | Surabaya | 1990-07-15 | 34 |

| Ahmad Hasan | Surabaya | 1992-10-15 | 32 |

| Cassanndra | Belfast | 1990-11-20 | 34 |

| Andi Wijaya | Tangerang | 2023-11-07 | 1 |

| Ira | Jakarta | 2023-11-07 | 1 |

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

12 rows in set (0.001 sec)

**Tugas 3.2**

**1.** MariaDB [dbpos\_sib6]> SELECT COUNT(\*) AS jumlah\_pelanggan\_1998

-> FROM pelanggan

-> WHERE YEAR(tgl\_lahir) = 1998;

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

| jumlah\_pelanggan\_1998 |

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

| 0 |

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

1 row in set (0.005 sec)

**2.** MariaDB [dbpos\_sib6]> SELECT COUNT(\*) AS jumlah\_pelanggan\_perempuan\_Jakarta

-> FROM pelanggan

-> WHERE jk = 'P' AND tmp\_lahir = 'Jakarta';

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

| jumlah\_pelanggan\_perempuan\_Jakarta |

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

| 3 |

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

1 row in set (0.006 sec)

**3.** MariaDB [dbpos\_sib6]> SELECT SUM(stok) AS total\_stok\_harga\_dibawah\_10rb

-> FROM produk

-> WHERE harga\_jual < 10000;

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

| total\_stok\_harga\_dibawah\_10rb |

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

| 79 |

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

1 row in set (0.002 sec)

**4.** MariaDB [dbpos\_sib6]> SELECT COUNT(\*) AS jumlah\_produk\_kode\_K

-> FROM produk

-> WHERE kode LIKE 'K%';

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

| jumlah\_produk\_kode\_K |

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

| 1 |

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

1 row in set (0.004 sec)

**5.** MariaDB [dbpos\_sib6]> SELECT AVG(harga\_jual) AS rata\_rata\_harga\_jual

-> FROM produk

-> WHERE harga\_jual > 1000000;

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

| rata\_rata\_harga\_jual |

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

| 31387733.333333332 |

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

1 row in set (0.005 sec)

**6.** MariaDB [dbpos\_sib6]> SELECT MAX(stok) AS jumlah\_stok\_terbesar

-> FROM produk;

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

| jumlah\_stok\_terbesar |

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

| 53 |

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

1 row in set (0.001 sec)

**7.** MariaDB [dbpos\_sib6]> SELECT COUNT(\*) AS jumlah\_produk\_stok\_kurang

-> FROM produk

-> WHERE stok < min\_stok;

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

| jumlah\_produk\_stok\_kurang |

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

| 4 |

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

1 row in set (0.001 sec)

**8.** MariaDB [dbpos\_sib6]> SELECT SUM(harga\_jual \* stok) AS total\_asset

-> FROM produk;

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

| total\_asset |

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

| 2491743500 |

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

1 row in set (0.000 sec)

**Tugas 3.3**

**1.** MariaDB [dbpos\_sib6]> SELECT id, nama, stok,

-> CASE

-> WHEN stok <= min\_stok THEN 'segera belanja'

-> ELSE 'stok aman'

-> END AS status\_stok

-> FROM produk;

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

| id | nama | stok | status\_stok |

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

| 1 | Televisi 21 inchs | 5 | stok aman |

| 2 | Televisi 40 inch | 4 | stok aman |

| 3 | Kulkas 2 pintu | 6 | stok aman |

| 4 | Meja Makan | 4 | stok aman |

| 5 | Teh Kotak | 6 | segera belanja |

| 6 | PC Desktop HP | 9 | stok aman |

| 7 | Teh Botol | 53 | stok aman |

| 8 | Notebook Acer S | 7 | stok aman |

| 9 | Notebook Lenovo | 9 | stok aman |

| 11 | Laptop Lenovo | 5 | stok aman |

| 15 | Kopi | 10 | segera belanja |

| 16 | Teh Sosro 2 | 10 | segera belanja |

| 18 | Laptop Asus | 10 | segera belanja |

| 19 | Televisi 22 inc` | 5 | stok aman |

| 20 | Televisi 23 inc | 5 | stok aman |

| 21 | Televisi 24 inc | 5 | stok aman |

| 22 | Televisi 25 inc | 5 | stok aman |

| 24 | Televisi 27 inc | 5 | stok aman |

| 25 | Televisi 28 inc | 5 | stok aman |

| 26 | Televisi 29 inc | 5 | stok aman |

| 27 | Teh Pucuk | 10 | stok aman |

| 28 | Teh Pucuk2 | 10 | stok aman |

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

22 rows in set (0.001 sec)

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

-> id,

-> nama,

-> TIMESTAMPDIFF(YEAR, tgl\_lahir, CURDATE()) AS umur,

-> CASE

-> WHEN TIMESTAMPDIFF(YEAR, tgl\_lahir, CURDATE()) < 17 THEN 'Muda'

-> WHEN TIMESTAMPDIFF(YEAR, tgl\_lahir, CURDATE()) BETWEEN 17 AND 55 THEN 'Dewasa'

-> ELSE 'Tua'

-> END AS kategori\_umur

-> FROM

-> pelanggan;

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

| id | nama | umur | kategori\_umur |

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

| 1 | Agung Sedayu Group | 14 | Muda |

| 2 | Pandan Wangi | 74 | Tua |

| 3 | Sekar Mirah | 41 | Dewasa |

| 4 | Swandaru Geni | 43 | Dewasa |

| 5 | Pradabashu | 39 | Dewasa |

| 6 | Gayatri Dwi | 36 | Dewasa |

| 7 | Dewi Gyat | 35 | Dewasa |

| 8 | Andre Haru | 33 | Dewasa |

| 9 | Ahmad Hasan | 31 | Dewasa |

| 10 | Cassanndra | 33 | Dewasa |

| 11 | Andi Wijaya | 0 | Muda |

| 12 | Ira | 0 | Muda |

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

12 rows in set (0.001 sec)

**3.** MariaDB [dbpos\_sib6]> SELECT id, kode, nama,

-> CASE

-> WHEN kode = 'TV01' THEN 'DVD Player'

-> WHEN kode = 'K001' THEN 'Rice Cooker'

-> ELSE 'Tidak Ada'

-> END AS bonus

-> FROM produk;

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

| id | kode | nama | bonus |

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

| 1 | TV01 | Televisi 21 inchs | DVD Player |

| 2 | TV02 | Televisi 40 inch | Tidak Ada |

| 3 | K001 | Kulkas 2 pintu | Rice Cooker |

| 4 | M001 | Meja Makan | Tidak Ada |

| 5 | TK01 | Teh Kotak | Tidak Ada |

| 6 | PC01 | PC Desktop HP | Tidak Ada |

| 7 | TB01 | Teh Botol | Tidak Ada |

| 8 | AC01 | Notebook Acer S | Tidak Ada |

| 9 | LN01 | Notebook Lenovo | Tidak Ada |

| 11 | L005 | Laptop Lenovo | Tidak Ada |

| 15 | L112 | Kopi | Tidak Ada |

| 16 | L113 | Teh Sosro 2 | Tidak Ada |

| 18 | L0015 | Laptop Asus | Tidak Ada |

| 19 | TV0115 | Televisi 22 inc` | Tidak Ada |

| 20 | TV0116 | Televisi 23 inc | Tidak Ada |

| 21 | TV0117 | Televisi 24 inc | Tidak Ada |

| 22 | TV0118 | Televisi 25 inc | Tidak Ada |

| 24 | TV0120 | Televisi 27 inc | Tidak Ada |

| 25 | TV0121 | Televisi 28 inc | Tidak Ada |

| 26 | TV0122 | Televisi 29 inc | Tidak Ada |

| 27 | THP001 | Teh Pucuk | Tidak Ada |

| 28 | THP002 | Teh Pucuk2 | Tidak Ada |

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

22 rows in set (0.000 sec)

**Tugas 3.4**

**1.** MariaDB [dbpos\_sib6]> SELECT tmp\_lahir, COUNT(\*) AS jumlah\_pelanggan

-> FROM pelanggan

-> GROUP BY tmp\_lahir;

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

| tmp\_lahir | jumlah\_pelanggan |

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

| Belfast | 1 |

| Jakarta | 3 |

| Kediri | 2 |

| Pati | 1 |

| Solo | 1 |

| Surabaya | 2 |

| Tangerang | 1 |

| Yogyakarta | 1 |

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

8 rows in set (0.034 sec)

**2.** MariaDB [dbpos\_sib6]> SELECT jenis\_produk\_id, COUNT(\*) AS jumlah\_produk

-> FROM produk

-> GROUP BY jenis\_produk\_id;

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

| jenis\_produk\_id | jumlah\_produk |

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

| 1 | 13 |

| 2 | 1 |

| 4 | 5 |

| 5 | 3 |

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

4 rows in set (0.032 sec)

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

-> FROM pelanggan

-> WHERE YEAR(CURDATE()) - YEAR(tgl\_lahir) <

-> (SELECT AVG(YEAR(CURDATE()) - YEAR(tgl\_lahir)) AS rata\_usia FROM pelanggan);

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

| id | kode | nama | jk | tmp\_lahir | tgl\_lahir | email | kartu\_id |

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

| 1 | C001 | Agung Sedayu Group | L | Solo | 2010-01-01 | sedayu@gmail.com | 1 |

| 9 | C009 | Ahmad Hasan | L | Surabaya | 1992-10-15 | ahasan@gmail.com | 4 |

| 11 | K0010 | Andi Wijaya | L | Tangerang | 2023-11-07 | andi@gmail.com | 2 |

| 12 | K0011 | Ira | P | Jakarta | 2023-11-07 | ira@gmail.com | 4 |

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

4 rows in set (0.012 sec)

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

-> FROM produk

-> WHERE harga\_jual > (SELECT AVG(harga\_jual) AS rata\_harga FROM produk);

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

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

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

| 1 | TV01 | Televisi 21 inchs | 3500000 | 50500000 | 5 | 2 | | NULL | 1 |

| 19 | TV0115 | Televisi 22 inc` | 3500000 | 50500000 | 5 | 2 | NULL | NULL | 1 |

| 20 | TV0116 | Televisi 23 inc | 3500000 | 50500000 | 5 | 2 | NULL | NULL | 1 |

| 21 | TV0117 | Televisi 24 inc | 3500000 | 50500000 | 5 | 2 | NULL | NULL | 1 |

| 22 | TV0118 | Televisi 25 inc | 3500000 | 50500000 | 5 | 2 | NULL | NULL | 1 |

| 24 | TV0120 | Televisi 27 inc | 3500000 | 50500000 | 5 | 2 | NULL | NULL | 1 |

| 25 | TV0121 | Televisi 28 inc | 3500000 | 50500000 | 5 | 2 | NULL | NULL | 1 |

| 26 | TV0122 | Televisi 29 inc | 3500000 | 50500000 | 5 | 2 | NULL | NULL | 1 |

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

8 rows in set (0.003 sec)

**5.** MariaDB [dbpos\_sib6]> SELECT harga\_beli, harga\_jual FROM produk WHERE harga\_jual < (SELECT AVG(harga\_jual) FROM produk) LIMIT 5;

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

| harga\_beli | harga\_jual |

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

| 5500000 | 7440000 |

| 3500000 | 4680000 |

| 500000 | 600000 |

| 3000 | 3500 |

| 7000000 | 9984000 |

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

5 rows in set (0.032 sec)

**6.** MariaDB [dbpos\_sib6]> SELECT \*,

-> CASE

-> WHEN id <= 5 THEN 'Diskon 5%'

-> WHEN id >= 6 THEN 'Diskon 10%'

-> ELSE 'Tidak ada'

-> END AS kartu\_diskon

-> FROM pelanggan;

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

| id | kode | nama | jk | tmp\_lahir | tgl\_lahir | email | kartu\_id | kartu\_diskon |

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

| 1 | C001 | Agung Sedayu Group | L | Solo | 2010-01-01 | sedayu@gmail.com | 1 | Diskon 5% |

| 2 | C002 | Pandan Wangi | P | Yogyakarta | 1950-01-01 | wangi@gmail.com | 2 | Diskon 5% |

| 3 | C003 | Sekar Mirah | P | Kediri | 1983-02-20 | mirah@yahoo.com | 1 | Diskon 5% |

| 4 | C004 | Swandaru Geni | L | Kediri | 1981-01-04 | swandaru@yahoo.com | 4 | Diskon 5% |

| 5 | C005 | Pradabashu | L | Pati | 1985-04-02 | prada85@gmail.com | 2 | Diskon 5% |

| 6 | C006 | Gayatri Dwi | P | Jakarta | 1987-11-28 | gaya87@gmail.com | 1 | Diskon 10% |

| 7 | C007 | Dewi Gyat | P | Jakarta | 1988-12-01 | giyat@gmail.com | 1 | Diskon 10% |

| 8 | C008 | Andre Haru | L | Surabaya | 1990-07-15 | andre.haru@gmail.com | 4 | Diskon 10% |

| 9 | C009 | Ahmad Hasan | L | Surabaya | 1992-10-15 | ahasan@gmail.com | 4 | Diskon 10% |

| 10 | C010 | Cassanndra | P | Belfast | 1990-11-20 | casa90@gmail.com | 1 | Diskon 10% |

| 11 | K0010 | Andi Wijaya | L | Tangerang | 2023-11-07 | andi@gmail.com | 2 | Diskon 10% |

| 12 | K0011 | Ira | P | Jakarta | 2023-11-07 | ira@gmail.com | 4 | Diskon 10% |

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

12 rows in set (0.001 sec)