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Tugas Modul 7

1. Tabel produk

produk_id	produk_nama	jumlah_stok	harga
P150	Kretendeng	80pcs	8000
P792	miesadap	30pcs	3000
P204	somos	50pcs	6000
P561	Marijan	40pcs	20000

Tambahkan dulu colum harga

```
MariaDB [galeri_itera]> ALTER TABLE produk  
→ ADD COLUMN harga INT(11);  
Query OK, 0 rows affected (0.004 sec)  
Records: 0 Duplicates: 0 Warnings: 0
```

Set harga pada data lama

```
MariaDB [galeri_itera]> UPDATE produk  
→ SET harga =  
→ CASE  
→ WHEN produk_id = 'P109' THEN 5000  
→ WHEN produk_id = 'P114' THEN 1000  
→ WHEN produk_id = 'P115' THEN 1500  
→ WHEN produk_id = 'P123' THEN 12000  
→ WHEN produk_id = 'P235' THEN 2000  
→ WHEN produk_id = 'P311' THEN 3000  
→ WHEN produk_id = 'P333' THEN 500  
→ WHEN produk_id = 'P441' THEN 30000  
→ WHEN produk_id = 'P453' THEN 2000  
→ WHEN produk_id = 'P552' THEN 5000  
→ WHEN produk_id = 'P882' THEN 1500  
→ ELSE 0  
→ END;  
Query OK, 11 rows affected (0.002 sec)  
Rows matched: 11 Changed: 11 Warnings: 0
```

Tambahkan data baru yang sesuai dengan modul

```
MariaDB [galeri_itera]> INSERT INTO produk VALUES
→ ('P150', 'Kretendeng', 80, 'S006', 8000),
→ ('P792', 'miesadap', 30, 'S006', 3000),
→ ('P204', 'somos', 50, 'S006', 6000),
→ ('P561', 'Marijan', 40, 'S006', 20000);
Query OK, 4 rows affected (0.002 sec)
Records: 4 Duplicates: 0 Warnings: 0
```

Tampilkan semua data pada produk

```
MariaDB [galeri_itera]> select * from produk;
```

produk_id	produk_nama	jumlah_stok	supplies_id	harga
P109	Teh Kotak 300 ml	40	S002	5000
P114	Milo 100 ml	800	S001	1000
P115	Milo 150 ml	50	S003	1500
P123	Gulaku 1 Kg	100	S005	12000
P150	Kretendeng	80	S006	8000
P204	somos	50	S006	6000
P235	Aqua 250 ml	300	S001	2000
P311	Grand 320 ml	400	S003	3000
P333	Sari Roti 100 gram	30	S005	500
P441	Rojo Lele 5 kg	60	S002	30000
P453	Garam 30 gram	20	S006	2000
P552	Aqua 1 L	300	S001	5000
P561	Marijan	40	S006	20000
P792	miesadap	30	S006	3000
P882	Indomilk 25 ml	200	S004	1500

```
15 rows in set (0.000 sec)
```

2. Tabel pegawai, tambahkan kolom alamat (VARCHAR 50) dan jenis kelamin (VARCHAR 15) serta menambahkan 3 orang pegawai dengan rincian sebagai berikut

<u>id_pegawai</u>	pegawai_nama	jabatan	jenis_kelamin	Alamat
Pg_007	Dani	Staff	Laki-laki	Jl. Suka Maju
Pg_008	Doni	Staff	Laki-laki	Jl. Suka Mundur
Pg_009	Dian	Staff	Perempuan	Jl. Ryacudu

Tampilan data pegawai setelah menambahkan data yang sesuai dari modul

```
MariaDB [galeri_itera]> select * from pegawai;
+-----+-----+-----+-----+-----+
| id_pegawai | pegawai_nama | jabatan | alamat          | jenis_kelamin |
+-----+-----+-----+-----+-----+
| pg_001     | Santi       | Cashier | NULL            | NULL           |
| Pg_002     | Siska       | Casier  | NULL            | NULL           |
| Pg_003     | Nuri        | Casier  | NULL            | NULL           |
| Pg_004     | Jamal       | Casier  | NULL            | NULL           |
| Pg_007     | Dani        | Staff   | Jl. Suka Maju   | Laki-laki      |
| Pg_008     | Doni        | Staff   | Jl. Suka Mundur | Laki-laki      |
| Pg_009     | Dian        | Staff   | Jl. Ryacudu     | Perempuan      |
| pg_201     | Santo       | Cashier | NULL            | NULL           |
| pg_300     | Yaya        | Manager | NULL            | NULL           |
+-----+-----+-----+-----+-----+
9 rows in set (0.000 sec)
```

3. Tabel pembeli, tambahkan kolom kota (VARCHAR 25) dengan rincian kota yang dapat digunakan adalah sebagai berikut :

Kota
Jakarta
Bandung
Yogyakarta
Bandar Lampung
Surabaya

```

MariaDB [galeri_itera]> ALTER TABLE pembeli
    → ADD COLUMN kota VARCHAR(25);
Query OK, 0 rows affected (0.004 sec)
Records: 0  Duplicates: 0  Warnings: 0

MariaDB [galeri_itera]> select * from pembeli;
+-----+-----+-----+-----+
| id_pembeli | pembeli_nama | pembeli_kontak | kota |
+-----+-----+-----+-----+
| C_800      | Egi          | 0812521221     | NULL |
| C_810      | Ardi         | 0862145121     | NULL |
| C_890      | Prassetya    | 08521116464    | NULL |
| C_901      | Rudi         | 081231511      | NULL |
| C_991      | Andi         | 085212021111   | NULL |
+-----+-----+-----+-----+
5 rows in set (0.000 sec)

MariaDB [galeri_itera]> UPDATE pembeli
    → SET kota = 'Jakarta' WHERE id_pembeli = 'C_800';
Query OK, 1 row affected (0.002 sec)
Rows matched: 1  Changed: 1  Warnings: 0

MariaDB [galeri_itera]> UPDATE pembeli
    → SET kota = 'Bandung' WHERE id_pembeli = 'C_810';
Query OK, 1 row affected (0.001 sec)
Rows matched: 1  Changed: 1  Warnings: 0

MariaDB [galeri_itera]> UPDATE pembeli
    → SET kota = 'Yogyakarta' WHERE id_pembeli = 'C_890';
Query OK, 1 row affected (0.001 sec)
Rows matched: 1  Changed: 1  Warnings: 0

MariaDB [galeri_itera]> UPDATE pembeli
    → SET kota = 'Bandar Lampung' WHERE id_pembeli = 'C_901';
Query OK, 1 row affected (0.002 sec)
Rows matched: 1  Changed: 1  Warnings: 0

MariaDB [galeri_itera]> UPDATE pembeli
    → SET kota = 'Surabaya' WHERE id_pembeli = 'C_991';
Query OK, 1 row affected (0.002 sec)
Rows matched: 1  Changed: 1  Warnings: 0

```

4. Tambahkan kolom kota pada tabel Suppliers kemudian diurutkan.

```
MariaDB [galeri_itera]> ALTER TABLE suppliers
  → ADD COLUMN kota VARCHAR(25);
Query OK, 0 rows affected (0.005 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [galeri_itera]> select * from suppliers;
+-----+-----+-----+-----+
| suppliers_id | company_nama | nama_kontak | kota |
+-----+-----+-----+-----+
| S001         | Semua Terang | Ali         | NULL |
| S002         | Suka Maju    | Rahmat      | NULL |
| S003         | Maju Terus   | Dayono      | NULL |
| S004         | Pelita Baru  | Puspa       | NULL |
| S005         | Surya Kun    | Siti        | NULL |
| S006         | Ceria Kasih  | Topan       | NULL |
+-----+-----+-----+-----+
6 rows in set (0.000 sec)
```

```
MariaDB [galeri_itera]> UPDATE suppliers
  → SET kota = 'Jakarta' WHERE suppliers_id = 'S001';
Query OK, 0 rows affected (0.000 sec)
Rows matched: 1 Changed: 0 Warnings: 0

MariaDB [galeri_itera]> UPDATE suppliers
  → SET kota = 'Bandung' WHERE suppliers_id = 'S002';
Query OK, 1 row affected (0.002 sec)
Rows matched: 1 Changed: 1 Warnings: 0

MariaDB [galeri_itera]> UPDATE suppliers
  → SET kota = 'Yogyakarta' WHERE suppliers_id = 'S003';
Query OK, 1 row affected (0.001 sec)
Rows matched: 1 Changed: 1 Warnings: 0

MariaDB [galeri_itera]> UPDATE suppliers
  → SET kota = 'Bandar Lampung' WHERE suppliers_id = 'S004';
Query OK, 1 row affected (0.001 sec)
Rows matched: 1 Changed: 1 Warnings: 0

MariaDB [galeri_itera]> UPDATE suppliers
  → SET kota = 'Surabaya' WHERE suppliers_id = 'S005';
Query OK, 1 row affected (0.002 sec)
Rows matched: 1 Changed: 1 Warnings: 0

MariaDB [galeri_itera]> UPDATE suppliers
  → SET kota = 'Surabaya' WHERE suppliers_id = 'S006';
Query OK, 1 row affected (0.002 sec)
Rows matched: 1 Changed: 1 Warnings: 0

MariaDB [galeri_itera]> select * from suppliers;
+-----+-----+-----+-----+
| suppliers_id | company_nama | nama_kontak | kota |
+-----+-----+-----+-----+
| S001         | Semua Terang | Ali         | Jakarta |
| S002         | Suka Maju    | Rahmat      | Bandung |
| S003         | Maju Terus   | Dayono      | Yogyakarta |
| S004         | Pelita Baru  | Puspa       | Bandar Lampung |
| S005         | Surya Kun    | Siti        | Surabaya |
| S006         | Ceria Kasih  | Topan       | Surabaya |
+-----+-----+-----+-----+
6 rows in set (0.000 sec)
```

Urutkan kotanya

```
MariaDB [galeri_itera]> SELECT *
→ FROM suppliers
→ ORDER BY kota;

+-----+-----+-----+-----+
| suppliers_id | company_nama | nama_kontak | kota          |
+-----+-----+-----+-----+
| S004         | Pelita Baru  | Puspa       | Bandar Lampung |
| S002         | Suka Maju    | Rahmat      | Bandung        |
| S001         | Semua Terang | Ali         | Jakarta        |
| S005         | Surya Kun    | Siti        | Surabaya       |
| S006         | Ceria Kasih  | Topan       | Surabaya       |
| S003         | Maju Terus   | Dayono      | Yogyakarta     |
+-----+-----+-----+-----+
6 rows in set (0.000 sec)
```

5. Tampilkan nilai maksimal pada kolom jumlah stok.

```
MariaDB [galeri_itera]> SELECT MAX(jumlah_stok) AS nilai_maksimum FROM produk;

+-----+
| nilai_maksimum |
+-----+
| 800            |
+-----+
1 row in set (0.000 sec)
```

6. Tampilkan nilai rata-rata dari tabel produk pada tabel jumlah stok.

```
MariaDB [galeri_itera]> SELECT AVG(jumlah_stok) AS nilai_rataan FROM produk;

+-----+
| nilai_rataan |
+-----+
| 166.6667     |
+-----+
1 row in set (0.000 sec)
```

7. Tampilkan matakuliah beserta nilai yang terburuk yang pernah didapatkan oleh mahasiswa dengan nim 123
8. Tambahkan kolom harga pada tabel produk kemudian tentukan nilai rata-rata dari tabel tersebut (harga harus kenyataan)

```
MariaDB [galeri_itera]> SELECT AVG(harga) AS nilai_rataan_harga FROM produk;

+-----+
| nilai_rataan_harga |
+-----+
| 6700.0000         |
+-----+
1 row in set (0.000 sec)
```

9. Tampilkan total harga dari tabel produk

```
MariaDB [galeri_itera]> SELECT SUM(harga) AS total_harga FROM produk;
+-----+
| total_harga |
+-----+
|      100500 |
+-----+
1 row in set (0.000 sec)
```

10. Tampilkan jumlah pegawai

```
MariaDB [galeri_itera]> SELECT COUNT(*) AS jumlah_pegawai FROM pegawai;
+-----+
| jumlah_pegawai |
+-----+
|              9 |
+-----+
1 row in set (0.000 sec)
```

11. Tampilkan nilai rata-rata dan maksimum data Jumlah beli dari tabel Transaksi

```
MariaDB [galeri_itera]> SELECT AVG(jumlah_beli) AS rata-rata_jumlah_beli, MAX(jumlah_beli) AS maksimum_jumlah_beli FROM transaksi;
+-----+-----+
| rata-rata_jumlah_beli | maksimum_jumlah_beli |
+-----+-----+
|          4.8333       |          10          |
+-----+-----+
1 row in set (0.000 sec)
```

12. Tampilkan Company nama, Produk Id, Supplier id ketika Jumlah stok > 50 pcs

```
MariaDB [galeri_itera]> SELECT suppliers.company_nama, produk.produk_id, produk.supplies_id
→ FROM produk
→ JOIN suppliers ON produk.supplies_id = suppliers.suppliers_id
→ WHERE produk.jumlah_stok > 50;
+-----+-----+-----+
| company_nama | produk_id | supplies_id |
+-----+-----+-----+
| Semua Terang | P114      | S001        |
| Surya Kun    | P123      | S005        |
| Ceria Kasih  | P150      | S006        |
| Semua Terang | P235      | S001        |
| Maju Terus   | P311      | S003        |
| Suka Maju    | P441      | S002        |
| Semua Terang | P552      | S001        |
| Pelita Baru  | P882      | S004        |
+-----+-----+-----+
8 rows in set (0.001 sec)
```

13. Tampilkan data dari tabel Transaksi dan pegawai

```
MariaDB [galeri_itera]> select * from transaksi;
```

id_transaksi	id_pembeli	id_pegawai	produk_id	tgl_transaksi	jumlah_beli
1	C_901	pg_002	P552	2022-09-12 00:00:00	3
2	C_901	pg_003	P109	2022-09-15 00:00:00	10
3	C_810	pg_001	P114	2022-09-15 00:00:00	2
4	C_991	pg_004	P333	2022-09-18 00:00:00	3
5	C_800	pg_001	P552	2022-09-18 00:00:00	1
6	C_810	pg_002	P552	2022-09-20 00:00:00	10

```
6 rows in set (0.000 sec)
```



```
MariaDB [galeri_itera]> select * from pegawai;
```

id_pegawai	pegawai_nama	jabatan	alamat	jenis_kelamin
pg_001	Santi	Cashier	NULL	NULL
Pg_002	Siska	Casier	NULL	NULL
Pg_003	Nuri	Casier	NULL	NULL
Pg_004	Jamal	Casier	NULL	NULL
Pg_007	Dani	Staff	Laki-laki	Jl. Suka Maju
Pg_008	Doni	Staff	Laki-laki	Jl. Suka Mundur
Pg_009	Dian	Staff	Perempuan	Jl. Ryacudu
pg_201	Santo	Cashier	NULL	NULL
pg_300	Yaya	Manager	NULL	NULL

```
9 rows in set (0.000 sec)
```


14. Tampilkan Jumlah laki-laki dan perempuan pada tabel pegawai

```
MariaDB [galeri_itera]> UPDATE pegawai
  → SET jenis_kelamin =
  → CASE
  → WHEN id_pegawai = 'pg_001' THEN 'Perempuan'
  → WHEN id_pegawai = 'Pg_002' THEN 'Laki-laki'
  → WHEN id_pegawai = 'Pg_003' THEN 'Perempuan'
  → WHEN id_pegawai = 'Pg_004' THEN 'Laki-laki'
  → WHEN id_pegawai = 'pg_201' THEN 'Perempuan'
  → WHEN id_pegawai = 'pg_300' THEN 'Laki-laki'
  → ELSE 'Tidak diketahui'
  → END;
Query OK, 9 rows affected (0.002 sec)
Rows matched: 9 Changed: 9 Warnings: 0

MariaDB [galeri_itera]> UPDATE pegawai
  → SET alamat =
  → CASE
  → WHEN id_pegawai = 'pg_001' THEN 'Jl. Suka Maju'
  → WHEN id_pegawai = 'Pg_002' THEN 'Jl. Suka Mundur'
  → WHEN id_pegawai = 'Pg_003' THEN 'Jl. Ryacudu'
  → WHEN id_pegawai = 'Pg_004' THEN 'Jl. Suka Maju'
  → WHEN id_pegawai = 'pg_201' THEN 'Jl. Suka Mundur'
  → WHEN id_pegawai = 'pg_300' THEN 'Jl. Ryacudu'
  → ELSE 'Tidak diketahui'
  → END;
Query OK, 9 rows affected (0.002 sec)
Rows matched: 9 Changed: 9 Warnings: 0

MariaDB [galeri_itera]> select * from pegawai;
+-----+-----+-----+-----+-----+
| id_pegawai | pegawai_nama | jabatan | alamat | jenis_kelamin |
+-----+-----+-----+-----+-----+
| pg_001 | Santi | Cashier | Jl. Suka Maju | Perempuan |
| Pg_002 | Siska | Casier | Jl. Suka Mundur | Laki-laki |
| Pg_003 | Nuri | Casier | Jl. Ryacudu | Perempuan |
| Pg_004 | Jamal | Casier | Jl. Suka Maju | Laki-laki |
| Pg_007 | Dani | Staff | Tidak diketahui | Tidak diketahui |
| Pg_008 | Doni | Staff | Tidak diketahui | Tidak diketahui |
| Pg_009 | Dian | Staff | Tidak diketahui | Tidak diketahui |
| pg_201 | Santo | Cashier | Jl. Suka Mundur | Perempuan |
| pg_300 | Yaya | Manager | Jl. Ryacudu | Laki-laki |
+-----+-----+-----+-----+-----+
9 rows in set (0.000 sec)

MariaDB [galeri_itera]> SELECT jenis_kelamin, COUNT(*) AS jumlah
  → FROM pegawai
  → GROUP BY jenis_kelamin;
+-----+-----+
| jenis_kelamin | jumlah |
+-----+-----+
| Laki-laki | 3 |
| Perempuan | 3 |
| Tidak diketahui | 3 |
+-----+-----+
3 rows in set (0.000 sec)
```

15. Tampilkan stok barang yang

a. Paling Banyak

```
MariaDB [galeri_itera]> SELECT MAX(jumlah_stok) AS stok_terbanyak FROM produk;  
+-----+  
| stok_terbanyak |  
+-----+  
|           800 |  
+-----+  
1 row in set (0.000 sec)
```

b. Paling Sedikit

```
MariaDB [galeri_itera]> SELECT MIN(jumlah_stok) AS stok_terendah FROM produk;  
+-----+  
| stok_terendah |  
+-----+  
|           20 |  
+-----+  
1 row in set (0.000 sec)
```

c. Rataan Stok

```
MariaDB [galeri_itera]> SELECT AVG(jumlah_stok) AS rataan_stok FROM produk;  
+-----+  
| rataan_stok |  
+-----+  
|    166.6667 |  
+-----+  
1 row in set (0.000 sec)
```

d. Total dari barang tersebut

```
MariaDB [galeri_itera]> SELECT SUM(jumlah_stok) AS total_stok FROM produk;  
+-----+  
| total_stok |  
+-----+  
|        2500 |  
+-----+  
1 row in set (0.000 sec)
```