

Praktikum 3 Sistem Basis Data 2023

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Kelas : J
RDBMS : MySQL
Link SQL : https://drive.google.com/drive/folders/1o3mrNrde-VpRxfJPP5G0dav-v6Mvot3B?usp=drive_link
Kode Asdos : J02
Sesi : Praktikum

Nomor 1

Sintaks:

```
SELECT M_Nama, M_Harga, M_Deskripsi
FROM Menu
WHERE M_Harga <= 15000
AND (LOWER(M_Nama) NOT LIKE '%ayam%' AND LOWER(M_Deskripsi) NOT LIKE '%ayam%');
```

Hasil:

				M_Nama	M_Harga	M_Deskripsi
<input type="checkbox"/>	Edit	Copy	Delete	Bakso	10000.00	Bakso dengan kuah bening dan bakso urat
<input type="checkbox"/>	Edit	Copy	Delete	Mie Goreng	13000.00	Mie goreng dengan sayur dan telur
<input type="checkbox"/>	Edit	Copy	Delete	Soto Betawi	15000.00	Soto Betawi dengan daging dan santan
<input type="checkbox"/>	Edit	Copy	Delete	Pecel Lele	15000.00	Pecel lele dengan nasi dan sambal khas
<input type="checkbox"/>	Edit	Copy	Delete	Kwetiau Goreng	13000.00	Kwetiau goreng dengan udang dan sayuran
<input type="checkbox"/>	Edit	Copy	Delete	Es Teh Manis	5000.00	Es teh manis dengan es batu
<input type="checkbox"/>	Edit	Copy	Delete	Es Jeruk	8000.00	Es jeruk segar dengan perasan jeruk
<input type="checkbox"/>	Edit	Copy	Delete	Es Cendol	10000.00	Es cendol dengan santan, gula merah, dan tepung be...
<input type="checkbox"/>	Edit	Copy	Delete	Es Doger	12000.00	Es doger dengan campuran kelapa muda, ubi ungu, ci...
<input type="checkbox"/>	Edit	Copy	Delete	Bandrek	15000.00	Bandrek dengan jahe, gula merah, dan rempah-rempah
<input type="checkbox"/>	Edit	Copy	Delete	Es Campur	12000.00	Es campur dengan aneka buah, nata de coco, dan sir...
<input type="checkbox"/>	Edit	Copy	Delete	Es Kelapa Muda	10000.00	Es kelapa muda segar dengan air kelapa dan es batu
<input type="checkbox"/>	Edit	Copy	Delete	Bajigur	12000.00	Bajigur dengan jahe, gula merah, kelapa parut, dan...
<input type="checkbox"/>	Edit	Copy	Delete	Jamu Kunyit Asam	8000.00	Jamu kunyit asam dengan kunyit, asam jawa, dan mad...
<input type="checkbox"/>	Edit	Copy	Delete	Wedang Jahe	10000.00	Wedang jahe dengan jahe, gula merah, dan rempah-re...

⬆️ ☐ Check all With selected: Edit Copy Delete Export

Nomor 2

Sintaks:

```
SELECT
    C_Nama AS Customer_Name,
    GROUP_CONCAT(M_Nama) AS Purchased_Menus,
    SUM(M_Harga) AS Total_Spent
FROM
    Customer
JOIN
    Transaksi ON C_ID = Customer_C_ID
JOIN
    Menu_Transaksi ON T_ID = Transaksi_T_ID
JOIN
    Menu ON M_ID = Menu_M_ID
WHERE
    C_Nama = 'Lisa Davis'
GROUP BY
    C_Nama;
```

Hasil:

Customer_Name	Purchased_Menus	Total_Spent
Lisa Davis	Gado-Gado,Pecel Lele,Bakso	43000.00

Nomor 3

Sintaks:

```
SELECT
    Transaksi_T_ID AS Transaction_ID,
    COUNT(Menu_M_ID) AS Number_of_Menus,
    SUM(M_Harga) AS Total_Price
FROM
    Menu_Transaksi
JOIN
    Menu ON M_ID = Menu_M_ID
GROUP BY
    Transaksi_T_ID
ORDER BY
    Number_of_Menus DESC,
    Total_Price DESC;
```

Hasil:












Transaction_ID	Number_of_Menus	1	Total_Price	2
T0020		4	63000.00	
T0016		4	48000.00	
T0019		3	60000.00	
T0014		3	56000.00	
T0006		3	43000.00	
T0010		3	38000.00	
T0001		2	35000.00	
T0018		2	35000.00	
T0008		2	33000.00	
T0013		2	28000.00	
T0015		2	23000.00	
T0011		1	25000.00	
T0012		1	25000.00	
T0009		1	22000.00	
T0005		1	20000.00	
T0017		1	18000.00	
T0004		1	15000.00	
T0007		1	15000.00	
T0003		1	12000.00	
T0002		1	10000.00	

Nomor 4

Sintaks:

```
SELECT D_Nama, D_Rating
FROM Driver
WHERE D_Rating > (SELECT AVG(D_Rating) FROM Driver);
```

Hasil:

				D_Nama	D_Rating
<input type="checkbox"/>	 Edit	 Copy	 Delete	Muhammad Fuad	4.5
<input type="checkbox"/>	 Edit	 Copy	 Delete	Badrus Salim	5.2
<input type="checkbox"/>	 Edit	 Copy	 Delete	Nadira Milha	4.8
<input type="checkbox"/>	 Edit	 Copy	 Delete	Muhammad Ali	4.4
<input type="checkbox"/>	 Edit	 Copy	 Delete	Abdul Ghofur	5.5
<input type="checkbox"/>	 Edit	 Copy	 Delete	Kamal Rusdi	4.9

 ☐ Check all With selected:  Edit  Copy  Delete  Export

Nomor 5

Sintaks:

```
SELECT
    T_WaktuPesanan AS Order_Date,
    COUNT(T_ID) AS Number_of_Transactions
FROM
    Transaksi
GROUP BY
    T_WaktuPesanan
ORDER BY
    T_WaktuPesanan DESC;
```

Hasil:

Order_Date	Number_of_Transactions
2023-11-27	1
2023-11-24	1
2023-11-23	1
2023-11-22	2
2023-11-21	1
2023-11-20	1
2023-11-17	1
2023-11-16	2
2023-11-15	2
2023-11-14	1
2023-11-11	3
2023-11-10	1
2023-11-09	2
2023-11-02	1

Nomor 6

Sintaks:

```
SELECT
    P_Jabatan AS Employee_Type,
    COUNT(P_ID) AS Number_of_Employees,
    AVG(P_Gaji) AS Average_Salary
FROM
    Pegawai
GROUP BY
    P_Jabatan;
```

Hasil:

Employee_Type	Number_of_Employees	Average_Salary
Chef	3	8100000.000000
Kasir	4	4425000.000000
Manager	1	10000000.000000
Waiter	2	4800000.000000

Nomor 7

Sintaks:

```
SELECT
    P_Nama AS Employee_Name,
    COUNT(DISTINCT Customer_C_ID) AS Number_of_Customers
FROM
    (SELECT
        Customer_C_ID,
        Pegawai_P_ID,
        ROW_NUMBER() OVER(PARTITION BY Customer_C_ID ORDER BY COUNT(T_ID)
DESC) as rn
    FROM
        Transaksi
    GROUP BY
        Customer_C_ID,
        Pegawai_P_ID) as T
JOIN
    Pegawai ON P_ID = Pegawai_P_ID
WHERE
    rn = 1
GROUP BY
    P_Nama
ORDER BY
    Number_of_Customers DESC;
```

Hasil:

Employee_Name	Number_of_Customers	1
Agus Sutanto		5
Budi Santoso		4
Lina Dewi		3
Eka Dewi		3

Nomor 8

Sintaks:

```
SELECT
    SUM(CASE
        WHEN T_MetodePembayaran IN ('Debit Card', 'Credit Card')
        THEN M_Harga * 0.95
        ELSE M_Harga END) * 0.4
    AS Profit
FROM
    Transaksi T
    JOIN Menu_Transaksi MT ON T.T_ID = MT.Transaksi_T_ID
    JOIN Menu M ON MT.Menu_M_ID = M.M_ID
WHERE
    MONTH(T.T_WaktuPesanan) = 11;
```

Hasil:

Profit
244560.00000

Nomor 9

Sintaks:

```
SELECT
    SUM(CASE WHEN DAYOFWEEK(T_WaktuPesanan) IN (1, 7) THEN 1 ELSE 0 END) -
    SUM(CASE WHEN DAYOFWEEK(T_WaktuPesanan) NOT IN (1, 7) THEN 1 ELSE 0 END)
AS Difference_Transaction,
    SUM(CASE WHEN DAYOFWEEK(T_WaktuPesanan) IN (1, 7) THEN harga ELSE 0 END) -
    SUM(CASE WHEN DAYOFWEEK(T_WaktuPesanan) NOT IN (1, 7) THEN harga ELSE 0
END) AS Difference_Income
FROM (
    SELECT DISTINCT T_WaktuPesanan, SUM(menu.M_Harga) as harga
    FROM transaksi
    JOIN menu_transaksi ON transaksi.T_ID = menu_transaksi.transaksi_t_id
    JOIN menu ON menu_transaksi.menu_m_id = menu.M_ID
    GROUP BY transaksi.T_ID
) as selisih;
```

Hasil:

Transaction_Difference	Income_Difference
14	468000.00

Nomor 10

Sintaks:

```
SELECT
    D_Nama AS Driver_Name,
    COUNT(Menu_M_ID) AS Number_of_Menus
FROM
    Transaksi T
JOIN
    Menu_Transaksi MT ON T.T_ID = MT.Transaksi_T_ID
JOIN
    Driver D ON T.Driver_D_ID = D.D_ID
GROUP BY
    D_Nama
ORDER BY
    Number_of_Menus DESC;
```

Hasil:

Driver_Name	Number_of_Menus	1
Muhammad Fuad	12	
Ahmad Hendra	7	
Kamal Rusdi	4	
Nadira Milha	3	
Muhammad Ali	3	
Abdul Ghofur	3	
Nadia Syifa	3	
William Sholeh	2	
Misbahul Maarif	1	
Badrus Salim	1	