**Praktikum 3 Sistem Basis Data 2023**

**NRP / Nama : 5025221161/Mohammad Hanif Furqan Aufa Putra  
Kelas : J**

**RDBMS : MySQL**

**Link SQL :** [**https://drive.google.com/drive/folders/1o3mrNrde-VpRxfJPP5G0dav-v6Mvot3B?usp=drive\_link**](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:



**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

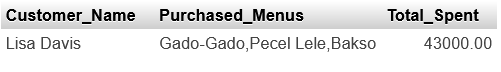
WHERE

    C\_Nama = 'Lisa Davis'

GROUP BY

    C\_Nama;

Hasil:



**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

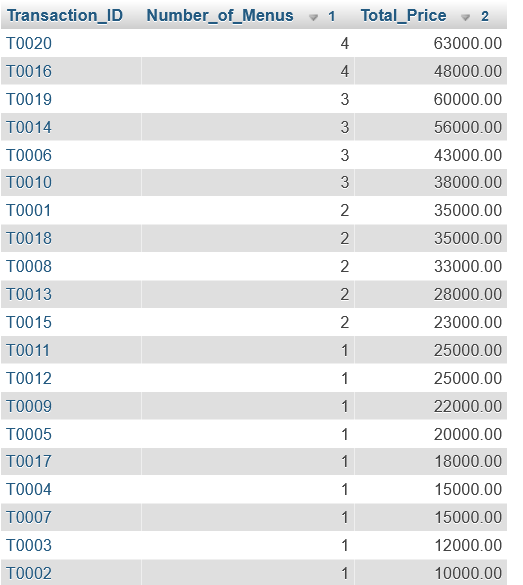
    Transaksi\_T\_ID

ORDER BY

    Number\_of\_Menus DESC,

    Total\_Price DESC;

Hasil:



**Nomor 4**

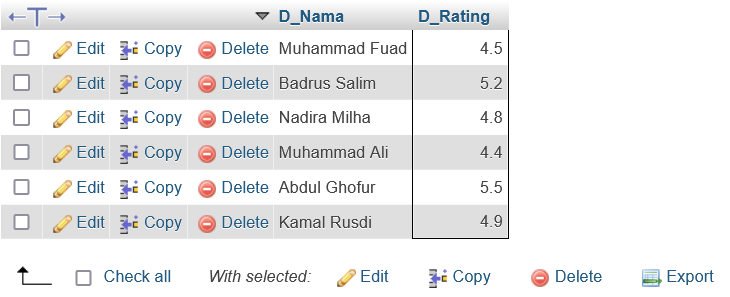
Sintaks:

SELECT D\_Nama, D\_Rating

FROM Driver

WHERE D\_Rating > (SELECT AVG(D\_Rating) FROM Driver);

Hasil:



**Nomor 5**

Sintaks:

SELECT

    T\_WaktuPesanan AS Order\_Date,

    COUNT(T\_ID) AS Number\_of\_Transactions

FROM

    Transaksi

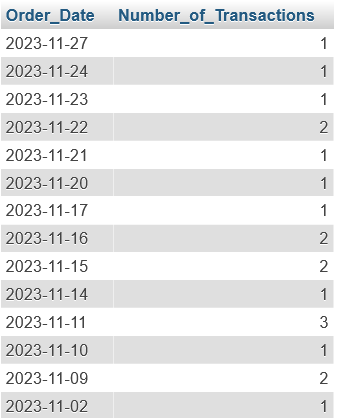
GROUP BY

    T\_WaktuPesanan

ORDER BY

    T\_WaktuPesanan DESC;

Hasil:



**Nomor 6**

Sintaks:

SELECT

    P\_Jabatan AS Employee\_Type,

    COUNT(P\_ID) AS Number\_of\_Employees,

    AVG(P\_Gaji) AS Average\_Salary

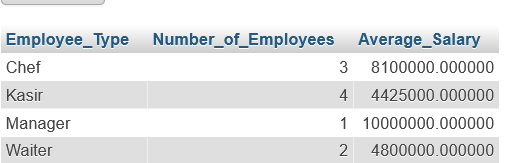
FROM

    Pegawai

GROUP BY

    P\_Jabatan;

Hasil:



**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

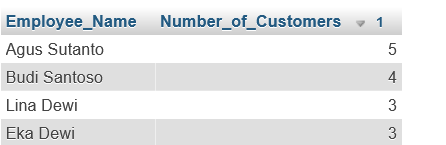
GROUP BY

    P\_Nama

ORDER BY

    Number\_of\_Customers DESC;

Hasil:



**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:



**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:



**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:

