1. **What is the total amount each customer spent at the restaurant?**

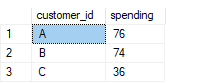
select sal.customer\_id, sum(men.price) as spending

from sales sal

join menu men

on sal.product\_id = men.product\_id

group by sal.customer\_id



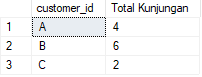
**2. How many days has each customer visited the restaurant?**

select customer\_id, count(distinct order\_date) as [Total Kunjungan]

--hanya munculin 1 data per kolom nya (jadi klo sehari ada 2 orderdate yg ditampilkan hanya 1 karena pakai 'distinct')

from sales

group by customer\_id



**3. What was the first item from the menu purchased by each customer?**

(SUB QUERY)

select sal.customer\_id, men.product\_name as pembelianpertama

from sales sal

join menu men

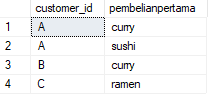
on sal.product\_id = men.product\_id

where sal.order\_date = (select min(order\_date)

from sales)

group by sal.customer\_id, men.product\_name

order by sal.customer\_id



(CTE)

WITH table\_filter as

(select sal.customer\_id, men.product\_name, sal.order\_date,

row\_number () over (partition by customer\_id order by order\_date asc) as pembelianpertama

from sales sal

join menu men

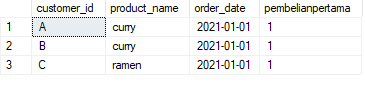
on sal.product\_id = men.product\_id

group by sal.customer\_id, men.product\_name, sal.order\_date)

SELECT \*

from table\_filter

where pembelianpertama = 1



**4. What is the most purchased item on the menu and how many times was it purchased by all customers?**

#1 kalau mau lihat total sales semua produk tiap customer

SELECT customer\_id, purchase\_count, product\_name

FROM (

SELECT customer\_id, product\_name, COUNT(\*) AS purchase\_count,

DENSE\_RANK() OVER (PARTITION BY customer\_id ORDER BY COUNT(\*) DESC) AS rnk

FROM sales

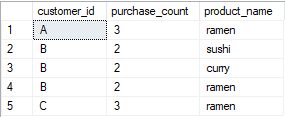
join menu

on sales.product\_id = menu.product\_id

GROUP BY customer\_id, product\_name

) ranked

WHERE rnk = 1



#2 kalau mau cari produk dengan sales terbanyak, dan brp sales produk tsb dari tiap customer

select sal.customer\_id, men.product\_name, count(sal.product\_id) as purchase\_count

from sales sal

join menu men

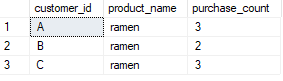
on sal.product\_id = men.product\_id

where sal.product\_id = (

select max(product\_id) from sales)

group by sal.customer\_id, men.product\_name

order by sal.customer\_id



**5. Which item was the most popular for each customer?**

select sal.customer\_id, men.product\_name

from sales sal

join menu men

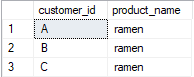
on sal.product\_id = men.product\_id

where sal.product\_id = (

select max(product\_id) from sales)

group by sal.customer\_id, men.product\_name

order by sal.customer\_id



**6. Which item was purchased first by the customer after they became a member?**

select mem.customer\_id, mem.join\_date, men.product\_id, men.product\_name as [pembelian pertama]

from members mem

join sales sal

on mem.customer\_id = sal.customer\_id

join menu men

on sal.product\_id = men.product\_id

where sal.order\_date = (

select min(join\_date)

from members)

group by mem.customer\_id, mem.join\_date, men.product\_id, men.product\_name

order by mem.customer\_id



***(ini untuk nampilin semua pembelian setelah jadi member)***

select mem.customer\_id, mem.join\_date, men.product\_id as [pembelian setelah jadi member], men.product\_name as [nama menu]

from members mem

join sales sal

on mem.customer\_id = sal.customer\_id

join menu men

on sal.product\_id = men.product\_id

where sal.order\_date > = mem.join\_date

group by mem.customer\_id, mem.join\_date, men.product\_id, men.product\_name

order by mem.customer\_id



**7. Which item was purchased just before the customer became a member?**

select mem.customer\_id, sal.order\_date, men.product\_id as [pembelian sebelum jadi member], men.product\_name as [nama menu]

from members mem

left outer join sales sal

on mem.customer\_id = sal.customer\_id

join menu men

on sal.product\_id = men.product\_id

where sal.order\_date < mem.join\_date

group by mem.customer\_id, sal.order\_date, men.product\_id, men.product\_name

order by mem.customer\_id



**8. What is the total items and amount spent for each member before they became a member?**

with table\_filter as (

select mem.customer\_id, sal.order\_date, sum(men.price) as harga

from members mem

left outer join sales sal

on mem.customer\_id = sal.customer\_id

join menu men

on sal.product\_id = men.product\_id

where sal.order\_date < mem.join\_date

group by mem.customer\_id, sal.order\_date, men.price

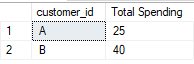
)

select customer\_id, sum(harga) as [Total Spending]

from table\_filter

group by customer\_id

order by customer\_id



**9. If each $1 spent equates to 10 points and sushi has a 2x points multiplier - how many points would each customer have?**

with table\_filter as (

select sal.customer\_id, men.product\_name, men.price, count(sal.product\_id) as penjualan,

case

when men.product\_name = 'sushi' then (men.price \* 20 \* count(sal.product\_id))

Else (men.price \* 10 \* count(sal.product\_id))

END AS points

from sales sal

join menu men

on sal.product\_id = men.product\_id

group by sal.customer\_id, men.price, men.product\_name

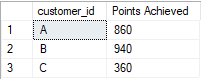
)

select customer\_id, sum(points) as [Points Achieved]

from table\_filter

group by customer\_id

order by customer\_id



**10. In the first week after a customer joins the program (including their join date) they earn 2x points on all items, not just sushi, how many points do customer A and B have at the end of January?**

with table\_filter as (

select mem.customer\_id, mem.join\_date, men.price, count(sal.product\_id) as penjualan, sal.order\_date,

case

when (sal.order\_date > = mem.join\_date) then (men.price \* 20 \* count(sal.product\_id))

Else 0 END AS points

from sales sal

join menu men

on sal.product\_id = men.product\_id

join members mem

on mem.customer\_id = sal.customer\_id

where sal.order\_date > = mem.join\_date

group by mem.customer\_id, mem.join\_date, men.product\_id, men.price, sal.order\_date

)

select customer\_id, sum(points) as [Points Achieved]

from table\_filter

where order\_date < '2021-02-01'

group by customer\_id

order by customer\_id

