Challenge 1 questions

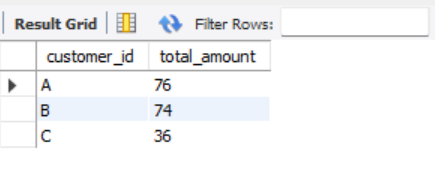
1. SELECT s.customer\_id, sum(m.price) as total\_amount

FROM sales s

JOIN menu m

ON s.product\_id = m.product\_id

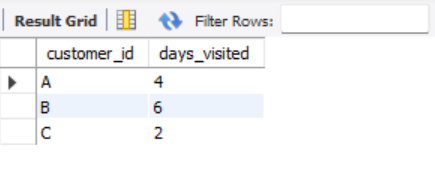
GROUP BY s.customer\_id;



1. SELECT customer\_id, count(distinct(order\_date)) as days\_visited

FROM sales

GROUP BY customer\_id;



1. SELECT \*

FROM (

SELECT s.customer\_id, m.product\_name,

ROW\_NUMBER() OVER (PARTITION BY s.customer\_id ORDER BY s.order\_date ASC) as row\_num

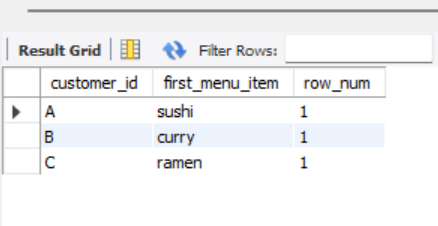
FROM sales s

JOIN menu m

ON s.product\_id = m.product\_id

) t

where t.row\_num = 1;



1. SELECT m.product\_name, count(s.product\_id) as frequent\_item\_count

FROM sales s

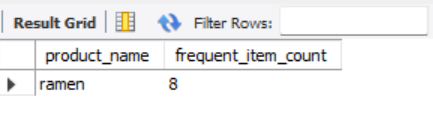
JOIN menu m

ON s.product\_id = m.product\_id

GROUP BY m.product\_name

ORDER BY frequent\_item\_count DESC

LIMIT 1;



1. WITH RankedProducts AS (

SELECT

customer\_id,

product\_id,

COUNT(\*) AS order\_count,

ROW\_NUMBER() OVER (PARTITION BY customer\_id ORDER BY COUNT(\*) DESC) AS row\_rank

FROM sales

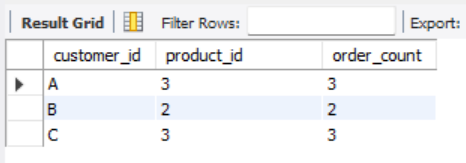
GROUP BY customer\_id, product\_id

)

SELECT customer\_id, product\_id, order\_count, row\_rank

FROM RankedProducts

WHERE row\_rank = 1;



6. SELECT \*

FROM (

SELECT s.customer\_id, m.product\_name,

ROW\_NUMBER() OVER (PARTITION BY s.customer\_id ORDER BY s.order\_date ASC) as row\_num

FROM sales s

JOIN menu m

ON s.product\_id = m.product\_id

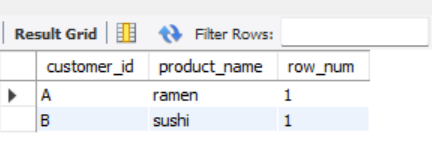
JOIN members mb

ON s.customer\_id = mb.customer\_id

WHERE s.order\_date > mb.join\_date

) t

where t.row\_num = 1;



7. SELECT \*

FROM (

SELECT s.customer\_id, m.product\_name,

ROW\_NUMBER() OVER (PARTITION BY s.customer\_id ORDER BY s.order\_date DESC, m.product\_name) as row\_num

FROM sales s

JOIN menu m

ON s.product\_id = m.product\_id

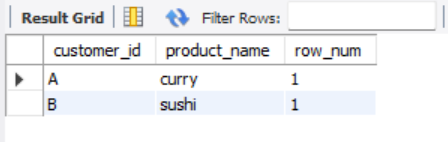
JOIN members mb

ON s.customer\_id = mb.customer\_id

WHERE s.order\_date < mb.join\_date

) t

WHERE t.row\_num = 1;



8. SELECT s.customer\_id, COUNT(\*) as total\_items, SUM(m.price) as total\_amount

FROM sales s

JOIN menu m

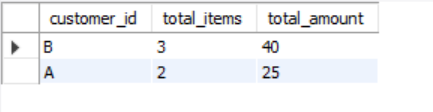
ON s.product\_id = m.product\_id

JOIN members mb

ON s.customer\_id = mb.customer\_id

WHERE s.order\_date < mb.join\_date

GROUP BY s.customer\_id;



9. SELECT s.customer\_id, SUM(2 \* m.price \* 10) AS total\_points, m.product\_name

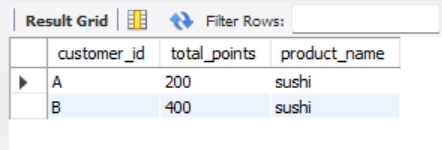
FROM sales s

JOIN menu m

ON s.product\_id = m.product\_id

WHERE m.product\_name = 'sushi'

GROUP BY s.customer\_id;



10. SELECT s.customer\_id, SUM(2 \* m.price \* 10) AS total\_points

FROM sales s

JOIN menu m

ON s.product\_id = m.product\_id

JOIN members mb

ON s.customer\_id = mb.customer\_id

WHERE s.order\_date >= mb.join\_date

GROUP BY s.customer\_id;

