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

SELECT customer\_id, SUM(price) AS Total\_Spent

FROM dannys\_diner.sales AS sales JOIN dannys\_diner.menu AS menu

ON sales.product\_id = menu.product\_id

GROUP BY customer\_id;

1. How many days has each customer visited the restaurant?

SELECT customer\_id, COUNT(DISTINCT(order\_date)) AS No\_Of\_Days

FROM dannys\_diner.sales

GROUP BY customer\_id;

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

SELECT customer\_id, MIN(order\_date) AS first\_order\_date

FROM dannys\_diner.sales

GROUP BY customer\_id;

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

SELECT sales.product\_id, product\_name, COUNT(\*) AS No\_Of\_Times

FROM dannys\_diner.sales AS sales JOIN dannys\_diner.menu AS menu

ON sales.product\_id = menu.product\_id

GROUP BY sales.product\_id, product\_name

ORDER BY No\_Of\_Times DESC LIMIT 1;

1. Which item was the most popular for each customer?

WITH Customer\_Item\_Count AS (

SELECT customer\_id, sales.product\_id, product\_name, COUNT(\*) AS No\_Of\_Times

FROM dannys\_diner.sales AS sales JOIN dannys\_diner.menu AS menu

ON sales.product\_id = menu.product\_id

GROUP BY customer\_id, sales.product\_id, product\_name

), Max\_Item\_Per\_Customer AS (

SELECT customer\_id, MAX( No\_Of\_Times) AS max\_no\_of\_times

FROM Customer\_Item\_Count

GROUP BY customer\_id

)

SELECT m.customer\_id, product\_name, max\_no\_of\_times

FROM Customer\_Item\_Count c

JOIN Max\_Item\_Per\_Customer m

ON c.customer\_id = m.customer\_id

ORDER BY max\_no\_of\_times;

WITH Customer\_Item\_Count AS (

SELECT customer\_id, sales.product\_id, product\_name, COUNT(\*) AS No\_Of\_Times

FROM dannys\_diner.sales AS sales

JOIN dannys\_diner.menu AS menu

ON sales.product\_id = menu.product\_id

GROUP BY customer\_id, sales.product\_id, product\_name

),

Ranked\_Items AS (

SELECT

customer\_id,

product\_name,

No\_Of\_Times,

ROW\_NUMBER() OVER (

PARTITION BY customer\_id

ORDER BY No\_Of\_Times DESC

) AS rank

FROM Customer\_Item\_Count

)

SELECT customer\_id, product\_name, No\_Of\_Times AS max\_no\_of\_times

FROM Ranked\_Items

WHERE rank = 1

ORDER BY customer\_id;

1. Which item was purchased first by the customer after they became a member?
2. Which item was purchased just before the customer became a member?
3. What is the total items and amount spent for each member before they became a member?
4. If each $1 spent equates to 10 points and sushi has a 2x points multiplier - how many points would each customer have?
5. 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?