

-- 1. View menu_items table

```
SELECT * FROM menu_items;
```

-- 2. Find the number of items on the ?

```
SELECT COUNT(*) FROM menu_items;
```

-- 3. What is the least and most expensive items on the menu?

-- Least expensive

```
SELECT * FROM menu_items
```

```
ORDER BY price;
```

-- Most expensive

```
SELECT * FROM menu_items
```

```
ORDER BY price DESC;
```

-- 4. How many italian dishes are on the menu?

```
SELECT category, COUNT(category)
```

```
FROM menu_items
```

```
WHERE category = "italian"
```

```
GROUP BY category;
```

-- 5. What are the least and most expensive italian dishes on the menu

-- Least

```
SELECT category, price
```

```
FROM menu_items
```

```
WHERE category = "italian"
```

```
ORDER BY price;
```

-- most

```
SELECT category, price
```

```
FROM menu_items  
WHERE category = "italian"  
ORDER BY price DESC;
```

-- 6. How many dishes are in each category?

```
SELECT COUNT(DISTINCT item_name) AS dishes, category FROM menu_items  
GROUP BY category;
```

-- 7. What is the average dish price within each category?

```
SELECT category, round(AVG(price),1) FROM menu_items  
GROUP BY category;
```

-- 8. View the order_table

```
SELECT * FROM order_details;
```

-- 9. What is the date range of the table?

```
SELECT MIN(order_date), MAX(order_date) FROM order_details;
```

-- 10. How many orders were made within this date range?

```
SELECT COUNT(DISTINCT order_id) FROM order_details;
```

-- 11. How many items were ordered within this date range?

```
SELECT COUNT(order_id) AS items FROM order_details;
```

-- 12. Which orders had the most number of items?

```
SELECT DISTINCT order_id AS order_id, COUNT(item_id) AS item_count FROM order_details  
GROUP BY order_id  
ORDER BY item_count DESC;
```

-- 13. How many orders had more than 12 items?

```
SELECT COUNT(*) FROM  
(SELECT DISTINCT order_id AS order_count, COUNT(item_id) AS counts FROM order_details  
GROUP BY order_count  
HAVING counts > 12) as order_table;
```

-- 14. Combine the menu_items and order_details into a single table

```
SELECT * FROM order_details as o  
Left JOIN menu_items as m  
ON o.item_id = m.menu_item_id;
```

-- 15. What are the most least and most ordered items? What category are they in?

-- Least item

```
SELECT item_name, category, COUNT(order_details_id) as num_purchases  
FROM order_details od  
LEFT JOIN menu_items mi  
ON od.item_id = mi.item_id  
GROUP BY item_name, category  
ORDER BY num_purchases;
```

-- Most item

```
SELECT item_name, category, COUNT(order_details_id) as num_purchases  
FROM order_details od  
LEFT JOIN menu_items mi  
ON od.item_id = mi.item_id  
GROUP BY item_name, category  
ORDER BY num_purchases DESC;
```

-- 16. What were the Top 5 orders that spent the most money?

```
SELECT order_id, SUM(price) as Total_price FROM order_details od  
LEFT JOIN menu_items mi
```

```
ON od.item_id = mi.item_id  
GROUP BY order_id  
ORDER BY Total_price DESC  
LIMIT 5;
```

-- 17. View the details of the highest spend order.

```
SELECT category, COUNT(item_id) AS num_items  
FROM order_details od LEFT JOIN menu_items mi  
ON od.item_id = mi.item_id  
WHERE order_id IN (440, 2075, 1957, 330, 2675)  
GROUP BY category;
```

-- 18. View the details of the top 5 highest spend orders.

```
SELECT order_id, category, COUNT(item_id) AS num_items  
FROM order_details od LEFT JOIN menu_items mi  
ON od.item_id = mi.item_id  
WHERE order_id IN (440, 2075, 1957, 330, 2675)  
GROUP BY order_id, category;
```