

## SQL Assignment Solution

-- 1. Pull total number of orders that were completed on 18th March 2023

```
SELECT COUNT(1) AS total_orders  
  
FROM SALES  
  
WHERE DATE = '2023-03-18';
```

-- 2. Pull total number of orders that were completed on 18th March 2023 with the first name 'John' and last name 'Doe'

```
SELECT COUNT(s.Order_id) AS total_orders  
  
FROM SALES AS s  
  
INNER JOIN CUSTOMERS AS c ON s.Customer_id = c.Customer_id  
  
WHERE s.DATE = '2023-03-18'  
  
    AND c.first_name = 'John'  
  
    AND c.last_name = 'Doe';
```

-- 3. Pull total number of customers that purchased in January 2023 and the average amount spent per customer

```
SELECT COUNT(DISTINCT s.Customer_id) AS total_customers,  
       ROUND(AVG(customer_spent.total_spent), 2) AS average_spent  
  
FROM (  
    SELECT Customer_id, SUM(Revenue) AS total_spent  
    FROM SALES  
    WHERE DATE BETWEEN '2023-01-01' AND '2023-01-31'  
    GROUP BY Customer_id  
) AS customer_spent
```

JOIN SALES AS s ON customer\_spent.Customer\_id = s.Customer\_id;

-- 4. Pull the departments that generated less than \$600 in 2022

SELECT i.department, SUM(s.Revenue) AS total\_revenue

FROM ITEMS AS i

INNER JOIN SALES AS s ON i.Item\_id = s.Item\_id

WHERE s.DATE BETWEEN '2022-01-01' AND '2022-12-31'

GROUP BY i.department

HAVING total\_revenue < 600;

-- 5. What is the most and least revenue we have generated by an order

SELECT MAX(s.Revenue) AS most\_revenue, MIN(s.Revenue) AS least\_revenue

FROM SALES AS s;

-- 6. What were the orders that were purchased in our most lucrative order

WITH RevenueRanked AS (

SELECT Order\_id, Revenue, RANK() OVER (ORDER BY Revenue DESC) AS rank\_order

FROM SALES

)

SELECT s.\*

FROM SALES AS s

JOIN RevenueRanked AS r ON s.Order\_id = r.Order\_id

WHERE r.rank\_order = 1;