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## Data Science Bootcamp Homework 2

1. **Pull total number of orders that were completed on 18th March 2023:**  
SELECT COUNT(\*) AS TotalOrders  
FROM SALES  
WHERE DATE = '03-18-2023';
2. **Pull total number of orders that were completed on 18th March 2023 with the first name 'John' and last name 'Doe'**  
SELECT COUNT(\*) AS TotalJohnDoeOrders  
FROM SALES  
JOIN CUSTOMERS ON SALES.Customer\_id = CUSTOMERS.Customer\_id  
WHERE DATE = '2023-03-18'  
AND CUSTOMERS.First\_name = 'John'  
AND CUSTOMERS.Last\_name = 'Doe';
3. **Pull total number of customers that purchased in January 2023 and the average amount spend per customer**  
SELECT COUNT(DISTINCT CUSTOMER\_ID) AS TotalCustomers, AVG(Revenue) AS  
AverageAmountSpent  
FROM SALES  
WHERE DATE >= '2023-01-01' AND DATE < '2023-02-01';
4. **Pull the departments that generated less than \$600 in 2022**  
SELECT D.Department\_name  
FROM DEPARTMENTS D  
JOIN PRODUCTS P ON D.Department\_id = P.Department\_id  
JOIN SALES S ON P.Item\_id = S.Item\_id  
WHERE YEAR(S.DATE) = 2022  
GROUP BY D.Department\_name  
HAVING SUM(S.Revenue) < 600;
5. **What is the most and least revenue we have generated by an order**  
SELECT MAX(Revenue) AS MaxRevenue, MIN(Revenue) AS MinRevenue  
FROM SALES;
6. **What were the orders that were purchased in our most lucrative order**  
SELECT Order\_id, Revenue  
FROM SALES  
WHERE Revenue = (SELECT MAX(Revenue) FROM SALES);