Homework 4

1. Pull total number of orders that were completed on 18th March 2023 SELECT COUNT(*) AS total_orders FROM SALES WHERE DATE = '2023-03-18'; Output total orders 25 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 total_orders FROM SALES s JOIN CUSTOMERS c ON s.Customer id = c.customer id WHERE s.DATE = '2023-03-18'AND c.first name = 'John' AND c.last name = 'Doe'; Output total_orders 3 3. Pull total number of customers that purchased in January 2023 and the average amount spend per customer SELECT COUNT(DISTINCT c.customer id) AS total customers, AVG(s.Revenue) AS average spent FROM SALES s JOIN CUSTOMERS c ON s.Customer id = c.customer id

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WHERE s.DATE >= '2023-01-01'
AND s.DATE < '2023-02-01';
Output
total customers | average spent
-----
15
   | 120.75
   4. Pull the departments that generated less than $600 in 2022
SELECT i.department
FROM ITEMS i
JOIN SALES s ON i.Item id = s.Item id
WHERE s.DATE \geq= '2022-01-01'
AND s.DATE < '2023-01-01'
GROUP BY i.department
HAVING SUM(s.Revenue) < 600;
Output
department
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Books
Kitchen
Toys
   5. What is the most and least revenue we have generated by an order
SELECT MIN(Revenue) AS least revenue, MAX(Revenue) AS most revenue
FROM SALES;
Output
least revenue | most revenue
-----
     | 1200.00
5.00
```

6. What were the orders that were purchased in our most lucrative order WITH MostLucrativeOrder AS (

SELECT Order_id

FROM SALES

ORDER BY Revenue DESC

LIMIT 1
)

SELECT *

FROM SALES

WHERE Order_id IN (SELECT Order_id FROM MostLucrativeOrder);

Output

Order_id | Item_id | Customer_id | Quantity | Revenue | Date

1001 | 10 | 500 | 2 | 1200.00 | 2023-03-15