*__Please submit all queries in a single DOC/PDF format.__
Use the following tables to work on the following prompts

TABLE INFO :

SALES – Date, Order_id, Item_id, Customer_id, Quantity, Revenue
ITEMS – Item_id, Item_name, price, department
CUSTOMERS- customer_id, first_name,last_name,Address

1.Pull total number of orders that were completed on 18th March 2023.
2.Pull total number of orders that were completed on 18th March 2023 with the first name 'John' and last name Doe'.
3.Pull total number of customers that purchased in January 2023 and the average amount spent per customer.
4.Pull the departments that generated less than $600 in 2022.
5.What is the most and least revenue we have generated by an order.
6.What were the orders that were purchased in our most lucrative order.

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

```
Select COUNT(DISTINCT Order_id) AS total_orders
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(DISTINCT S.Order_id) AS total_orders
FROM SALES AS S
JOIN CUSTOMERS AS C
ON S.Customer_id = C.Customer_id
WHERE  S.Date = "03-18-2023"
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 spend per customer.

```
Select COUNT(Distinct Customer_id) AS total_customers,
SUM(Revenue)/COUNT(Distinct Customer_id) AS average_spending
FROM SALES
WHERE Date BETWEEN "01-01-2023"
AND "01-31-2023";
```

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

```
SELECT I.department
FROM ITEMS AS I
JOIN SALES AS S
ON I.Item_id = S.Item_id
WHERE S.Date BETWEEN "01-01-2023"
AND "12-31-2023";
Group by I.department
```

```
Having Sum(S.Revenue) < 600;
```

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

```
SELECT Order_id, SUM(Revenue) AS TotalRevenue
FROM Sales
GROUP BY Order_id
ORDER BY TotalRevenue DESC
LIMIT 1;

SELECT Order_id, SUM(Revenue) AS TotalRevenue
FROM Sales
GROUP BY Order_id
ORDER BY TotalRevenue ASC
LIMIT 1;
```

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

```
#Select Order_id, SUM(Revenue) AS TotalRevenue
#FROM Sales
#GROUP BY Order_id
#ORDER BY TotalRevenue DESC;

WITH OrderRevenue AS (
   SELECT Order_id, SUM(Revenue) AS TotalRevenue
   FROM SALES
   GROUP BY Order_id
   ORDER BY TotalRevenue DESC
   LIMIT 1
)
SELECT S.Order_id, S.Item_id, I.Item_name, S.Quantity, S.Revenue
FROM SALES S
JOIN ITEMS I ON S.Item_id = I.Item_id
JOIN OrderRevenue ORR ON S.Order_id = ORR.Order_id;
```