Kevin Chan
Homework 4

***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 spend 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.
```
SELECT COUNT(DISTINCT Order_id) FROM SALES WHERE Date = '2023-03-18';
```

2.
```
SELECT COUNT(DISTINCT S.Order_id)
FROM SALES AS S
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.
```
SELECT COUNT(DISTINCT Customer_id),
    AVG(Revenue)
FROM SALES
WHERE Date >= '2023-01-01' AND Date <= '2023-01-31';
```

4.
```
SELECT I.department, SUM(S.Revenue)
FROM SALES S
JOIN ITEMS AS I ON S.Item_id = I.Item_id
WHERE S.Date >= '2022-01-01' AND S.Date <= '2022-12-31'
GROUP BY I.department
HAVING SUM(S.Revenue) < 600;
```

5.
   SELECT MAX(Revenue) FROM SALES;
   SELECT MIN(Revenue) FROM SALES;

6. SELECT DISTINCT Order_id FROM SALES WHERE MAX(Revenue)