

DATA SCIENCE SQL HW ASSIGNMENT (WEEK 4)

1)

```
SELECT * FROM SALES
WHERE DATE = '2022-12-20'
AND CUSTOMER_ID=(
    SELECT CUSTOMER_ID
    FROM CUSTOMERS
    WHERE FIRST_NAME ='John' AND LAST_NAME ='Doe');
```

2)

```
SELECT COUNT(DISTINCT ORDER_ID) AS CNT, AVG(REVENUE)
AS AVG_REV
FROM SALES
WHERE CAST(DATE AS TEXT) LIKE '2023-%-%';
```

3)

```
SELECT I.DEPARTMENT, SUM(S.REVENUE) AS TOTAL_REV
FROM ITEMS I
LEFT JOIN SALES S
ON I.ITEM_ID = S.ITEM_ID
WHERE S.DATE BETWEEN '2022-01-01' AND '2022-12-31'
GROUP BY I.DEPARTMENT
HAVING SUM(S.REVENUE) < 600;
```

4)

```
SELECT MAX(REVENUE) AS MAX_REV , MIN(REVENUE) AS
MIN_REV
FROM SALES;
```

5)

```
SELECT I.ITEM_NAME, MAX(S.REVENUE)
FROM ITEMS I
LEFT JOIN SALES S
ON I.ITEM_ID = S.ITEM_ID
GROUP BY I.ITEM_NAME
ORDER BY MAX(REVENUE) DESC
LIMIT 1;
```

