

SQL ASSIGNMENT 3

1. How many single-item orders were fulfilled from warehouses in the last month?

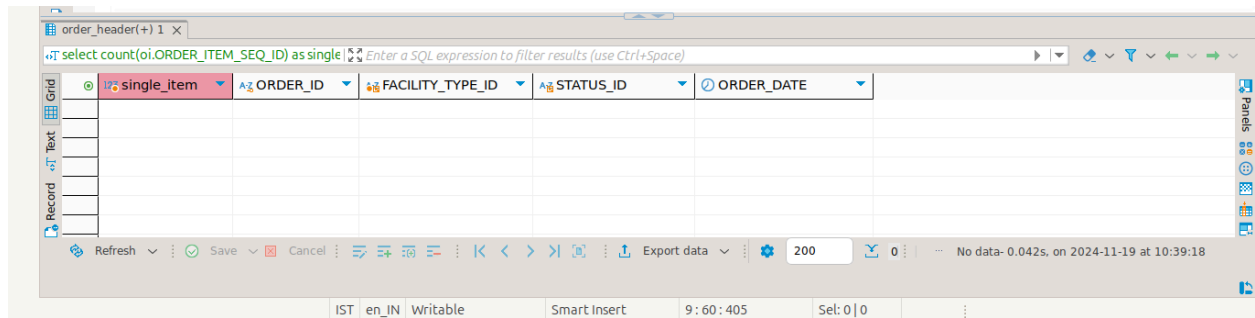
Update Query:-

```
select count(oi.ORDER_ITEM_SEQ_ID) as single_item,  
       oh.ORDER_ID,  
       f.FACILITY_TYPE_ID,  
       oh.STATUS_ID,  
       oh.ORDER_DATE  
from order_item oi join order_header oh on oi.ORDER_ID = oh.ORDER_ID  
join order_item_ship_group oisg on oh.ORDER_ID = oisg.ORDER_ID  
join facility f on f.FACILITY_ID = oisg.FACILITY_ID  
where f.FACILITY_TYPE_ID = 'warehouse' and oh.STATUS_ID = 'order_completed'  
and oh.ORDER_DATE >= DATE_ADD(CURDATE(), INTERVAL -1 MONTH)  
and oh.ORDER_DATE < CURDATE()  
group by oh.ORDER_ID  
having single_item = 1
```

Query:-

```
select count(oi.ORDER_ITEM_SEQ_ID) as single_item,  
       oh.ORDER_ID,  
       f.FACILITY_TYPE_ID,  
       oh.STATUS_ID,  
       oh.ORDER_DATE  
from order_item oi join order_header oh on oi.ORDER_ID = oh.ORDER_ID  
join facility f on f.FACILITY_ID = oh.ORIGIN_FACILITY_ID  
where f.FACILITY_TYPE_ID = 'warehouse' and oh.STATUS_ID = 'order_completed'  
and oh.ORDER_DATE >= DATE_ADD(CURDATE(), INTERVAL -1 MONTH)  
and oh.ORDER_DATE < CURDATE()  
group by oh.ORDER_ID  
having single_item = 1
```

Result:-



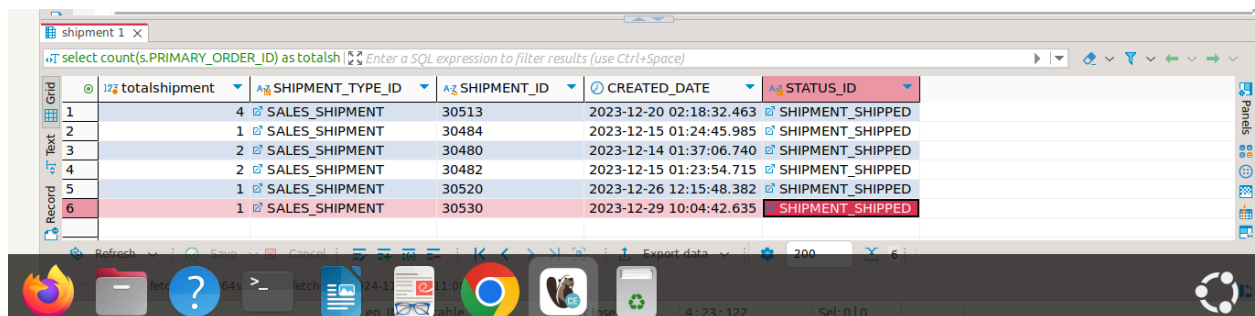
single_item	ORDER_ID	FACILITY_TYPE_ID	STATUS_ID	ORDER_DATE
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2. Leading up to the New Year, what is the count of orders shipped from stores in the 25 days preceding the New Year?

Query:-

```
select count(s.PRIMARY_ORDER_ID) as totalshipment,  
       s.SHIPMENT_TYPE_ID,  
       s.SHIPMENT_ID,  
       s.STATUS_ID  
from shipment s join facility f on f.FACILITY_ID = s.ORIGIN_FACILITY_ID  
where f.FACILITY_TYPE_ID = 'retail_store' and s.STATUS_ID = 'shipment_shipped'  
AND DATE(s.CREATED_DATE) between '2023-12-07' and '2023-12-31'  
group by s.PRIMARY_ORDER_ID ;
```

Result:-



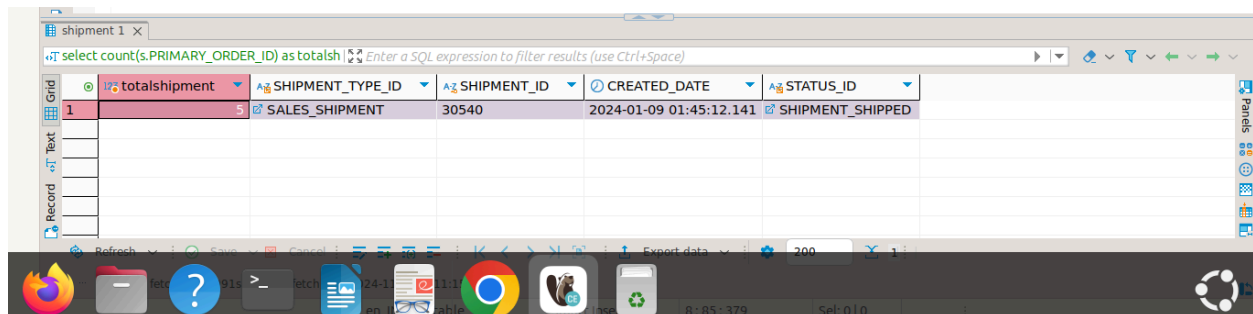
totalshipment	SHIPMENT_TYPE_ID	SHIPMENT_ID	CREATED_DATE	STATUS_ID
4	SALES_SHIPMENT	30513	2023-12-20 02:18:32.463	SHIPMENT_SHIPPED
1	SALES_SHIPMENT	30484	2023-12-15 01:24:45.985	SHIPMENT_SHIPPED
2	SALES_SHIPMENT	30480	2023-12-14 01:37:06.740	SHIPMENT_SHIPPED
2	SALES_SHIPMENT	30482	2023-12-15 01:23:54.715	SHIPMENT_SHIPPED
1	SALES_SHIPMENT	30520	2023-12-26 12:15:48.382	SHIPMENT_SHIPPED
1	SALES_SHIPMENT	30530	2023-12-29 10:04:42.635	SHIPMENT_SHIPPED

3. In the period following the New Year, what is the number of orders shipped from stores in the first 25 days?

Query:-

```
select count(s.PRIMARY_ORDER_ID) as totalshipment,  
       s.SHIPMENT_TYPE_ID,  
       s.SHIPMENT_ID,  
       s.CREATED_DATE,  
       s.STATUS_ID  
from shipment s join facility f on f.FACILITY_ID = s.ORIGIN_FACILITY_ID  
where f.FACILITY_TYPE_ID = 'retail_store' and s.STATUS_ID = 'shipment_shipped'  
and s.CREATED_DATE BETWEEN '2024-01-01' AND DATE_ADD('2024-01-01',  
INTERVAL 25 DAY)
```

Result:-



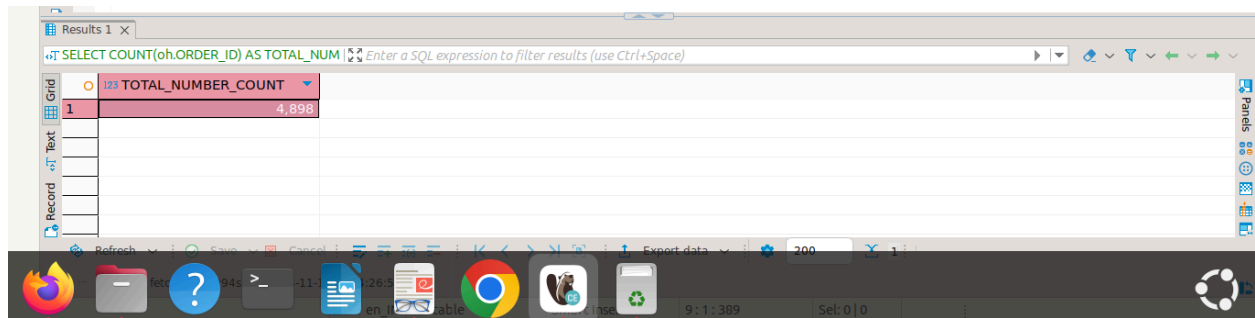
	totalshipment	SHIPMENT_TYPE_ID	SHIPMENT_ID	CREATED_DATE	STATUS_ID
1	5	SALES_SHIPMENT	30540	2024-01-09 01:45:12.141	SHIPMENT_SHIPPED

4. What is the total number of orders originating from New York?

Query:-

```
select count(oh.ORDER_ID) as TOTAL_NUMBER_COUNT  
from order_header oh  
join facility f on oh.ORIGIN_FACILITY_ID = f.FACILITY_ID  
join facility_contact_mech fcm on fcm.FACILITY_ID = f.FACILITY_ID  
join contact_mech cm on cm.CONTACT_MECH_ID = fcm.CONTACT_MECH_ID  
join postal_address pa on pa.CONTACT_MECH_ID = cm.CONTACT_MECH_ID  
where pa.CITY = 'new york'  
and oh.STATUS_ID = 'order_created';
```

Result:-



The screenshot shows a database application window titled 'Results 1 x'. The SQL query entered is 'SELECT COUNT(oh.ORDER_ID) AS TOTAL_NUM'. The results are displayed in a grid with one row and two columns: 'TOTAL_NUMBER_COUNT' and '4,898'. The application has a toolbar with various icons and a status bar at the bottom showing system icons and time.

TOTAL_NUMBER_COUNT
4,898

5. In New York, which product has the highest sales?

Update Query:-

```
select p.PRODUCT_ID,  
       p.PRODUCT_NAME,  
       pa.CITY ,  
       COUNT(oi.QUANTITY) as TOTAL_ORDER  
from order_header oh join order_item oi on oh.ORDER_ID = oi.ORDER_ID  
join product p on p.PRODUCT_ID = oi.PRODUCT_ID  
join order_item_ship_group oisg on oisg.ORDER_ID = oh.ORDER_ID  
join facility f on f.FACILITY_ID = oisg.FACILITY_ID  
join facility_contact_mech fcm on fcm.FACILITY_ID = f.FACILITY_ID  
join postal_address pa on pa.CONTACT_MECH_ID = fcm.CONTACT_MECH_ID  
where pa.CITY = 'New york'  
group by p.PRODUCT_ID  
order by TOTAL_ORDER desc  
limit 1;
```

Query:-

```
select p.PRODUCT_ID,  
       p.PRODUCT_NAME,  
       pa.CITY ,  
       COUNT(oi.QUANTITY) as TOTAL_ORDER  
from order_header oh join order_item oi on oh.ORDER_ID = oi.ORDER_ID  
join product p on p.PRODUCT_ID = oi.PRODUCT_ID  
join facility f on f.FACILITY_ID = oh.ORIGIN_FACILITY_ID  
join facility_contact_mech fcm on fcm.FACILITY_ID = f.FACILITY_ID  
join postal_address pa on pa.CONTACT_MECH_ID = fcm.CONTACT_MECH_ID
```

```

where pa.CITY = 'New york'
group by p.PRODUCT_ID
order by TOTAL_ORDER desc
limit 1;

```

Result:-

	PRODUCT_ID	PRODUCT_NAME	CITY	TOTAL_ORDER
1	730373	IVORY CROCO PRINT LEAT	New York	9,893

6. In the past month, which store has the highest number of one-day shipped orders?

Query:-

```

select f.FACILITY_ID,
       f.FACILITY_NAME as STORE_NAME,
       f.FACILITY_TYPE_ID,
       oh.ORDER_ID as TOTAL_ORDER_SHIPPED,
       smt.SHIPMENT_METHOD_TYPE_ID
from order_header oh join facility f
on oh.ORIGIN_FACILITY_ID = f.FACILITY_ID
join picklist p on p.FACILITY_ID = f.FACILITY_ID
join shipment_method_type smt on smt.SHIPMENT_METHOD_TYPE_ID =
p.SHIPMENT_METHOD_TYPE_ID
where smt.SHIPMENT_METHOD_TYPE_ID = 'one_day' and oh.ORDER_DATE
>=DATE_ADD(current_date(),interval -1 month)
group by oh.ORDER_ID
order by TOTAL_ORDER_SHIPPED desc
limit 1

```

Result:-

FACILITY_ID	STORE_NAME	FACILITY_TYPE_ID	TOTAL_ORDER_SHIPPED	SHIPMENT_METHOD_TYPE_ID
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7. On a city-wise basis, what is the analysis of returns?

Update Query:-

```
select pa.CITY,
       COUNT(DISTINCT rh.RETURN_ID) AS TOTAL_RETURN
from   return_header rh
join   return_item ri on rh.RETURN_ID = ri.RETURN_ID
join   order_header oh on oh.ORDER_ID = ri.ORDER_ID
join   order_item_ship_group oisg on oisg.ORDER_ID = oh.ORDER_ID
join   facility f on f.FACILITY_ID = oisg.FACILITY_ID
join   facility_contact_mech fcm on fcm.FACILITY_ID = f.FACILITY_ID
join   postal_address pa on pa.CONTACT_MECH_ID = fcm.CONTACT_MECH_ID
where  rh.STATUS_ID = 'return_received'
group by pa.CITY
order by pa.CITY desc;
```

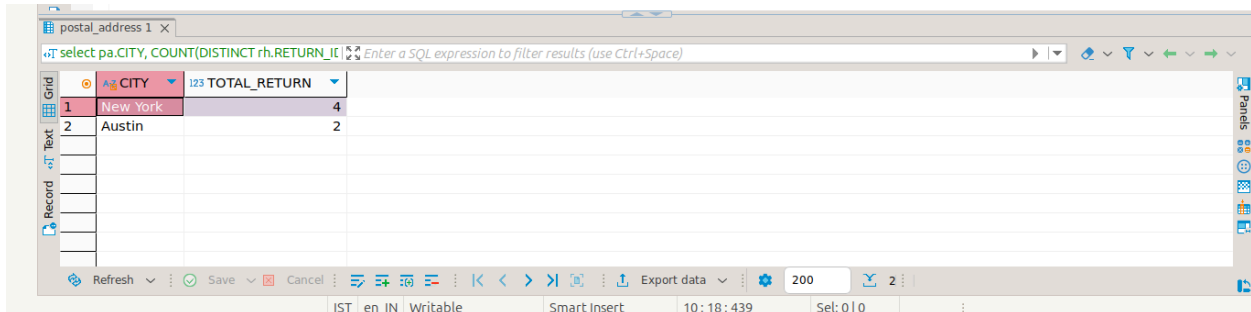
Result:-

CITY	TOTAL_RETURN
White Plains	2
Staten Island	5
Santa Clara	3
San Francisco	2
Riverhead	1
Paramus	1
New York	87
New Orleans	2
MIAMI GARDENS	1
Miami Beach	7

Query:-

```
select pa.CITY,  
       COUNT(DISTINCT rh.RETURN_ID) AS TOTAL_RETURN  
from   return_header rh  
join   return_item ri on rh.RETURN_ID = ri.RETURN_ID  
join   order_header oh on oh.ORDER_ID = ri.ORDER_ID  
join   facility f on f.FACILITY_ID = oh.ORIGIN_FACILITY_ID  
join   facility_contact_mech fcm on fcm.FACILITY_ID = f.FACILITY_ID  
join   postal_address pa on pa.CONTACT_MECH_ID = fcm.CONTACT_MECH_ID  
where  rh.STATUS_ID = 'return_received'  
group by pa.CITY  
order by pa.CITY desc;
```

Result:-



	CITY	TOTAL_RETURN
1	New York	4
2	Austin	2

8. How many orders with a single return were recorded in the last month?

Query:-

```
select count(ri.RETURN_ITEM_SEQ_ID) as RETURN_ITEM,  
       ri.ORDER_ID  
from   return_item ri join return_header rh on ri.RETURN_ID = rh.RETURN_ID  
where  rh.RETURN_DATE >=DATE_ADD(current_date(), interval - 1 month)  
and    rh.RETURN_DATE < current_date()  
group by ri.ORDER_ID  
having RETURN_ITEM = 1;
```

Result:-

return_item 1 x

select count(ri.RETURN_ITEM_SEQ_ID) as RETL

Enter a SQL expression to filter results (use Ctrl+Space)

	RETURN_ITEM	ORDER_ID
1	1	100000
2	1	100018
3	1	100021
4	1	100049
5	1	100070
6	1	100166
7	1	100168

Refresh Save Cancel Export data 200 107

107 row(s) fetched - 0.013s, on 2024-11-19 at 14:04:03

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