# PRACTICAL 2.1
# ADVANCED SQL

## ON SNOWFLAKE

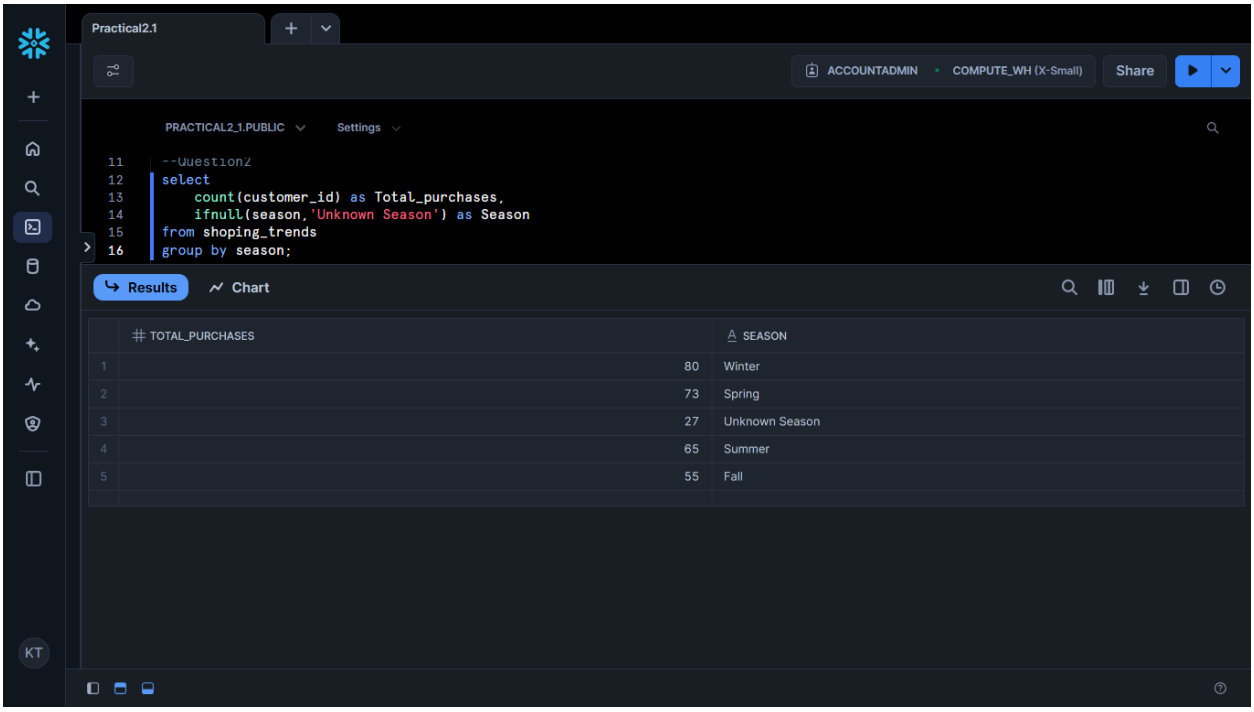
# Question 1

```
--Question1
select customer_id,size,purchase_amount,item_purchased,
from shoping_trends
where size is null and purchase_amount > 50;
```

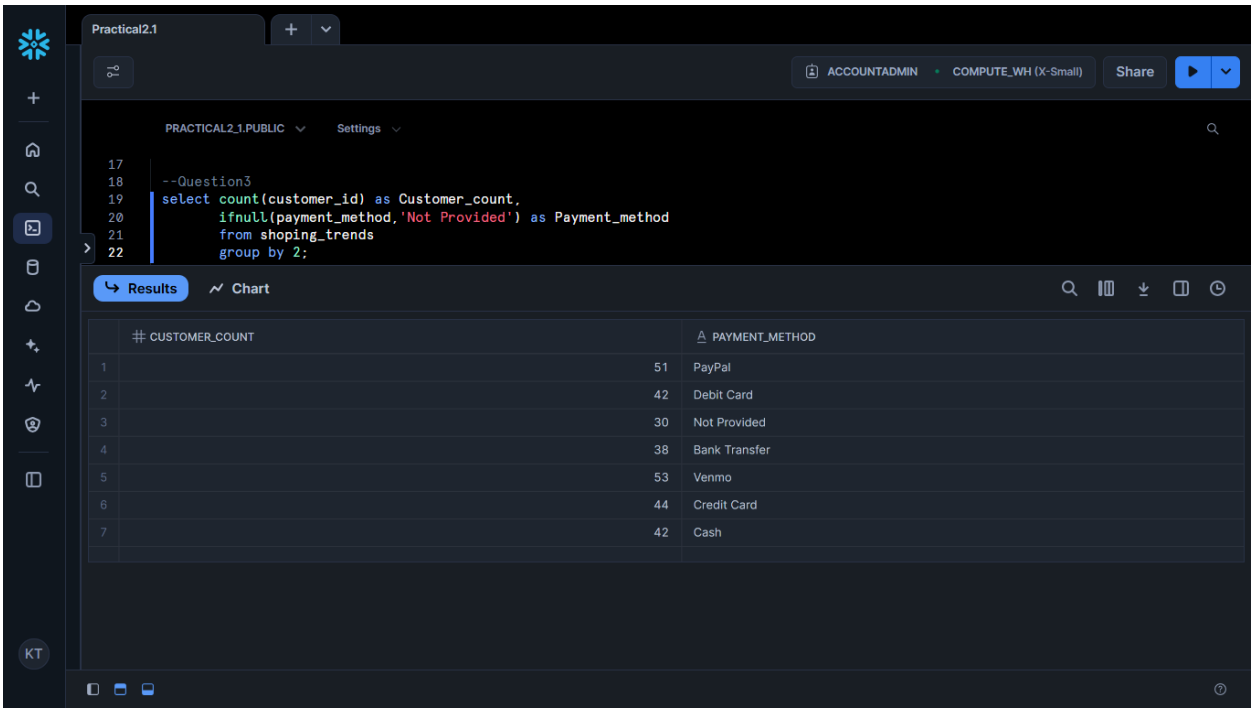
Results | Chart

| | CUSTOMER_ID | SIZE | PURCHASE_AMOUNT | ITEM_PURCHASED |
|---|---|---|---|---|
| 1 | 11 | null | 74.0 | Handbag |
| 2 | 15 | null | 54.0 | Jeans |
| 3 | 22 | null | 88.0 | Shirt |
| 4 | 32 | null | 54.0 | Blouse |
| 5 | 62 | null | 57.0 | Blouse |
| 6 | 73 | null | 65.0 | Sandals |
| 7 | 91 | null | 54.0 | Shoes |

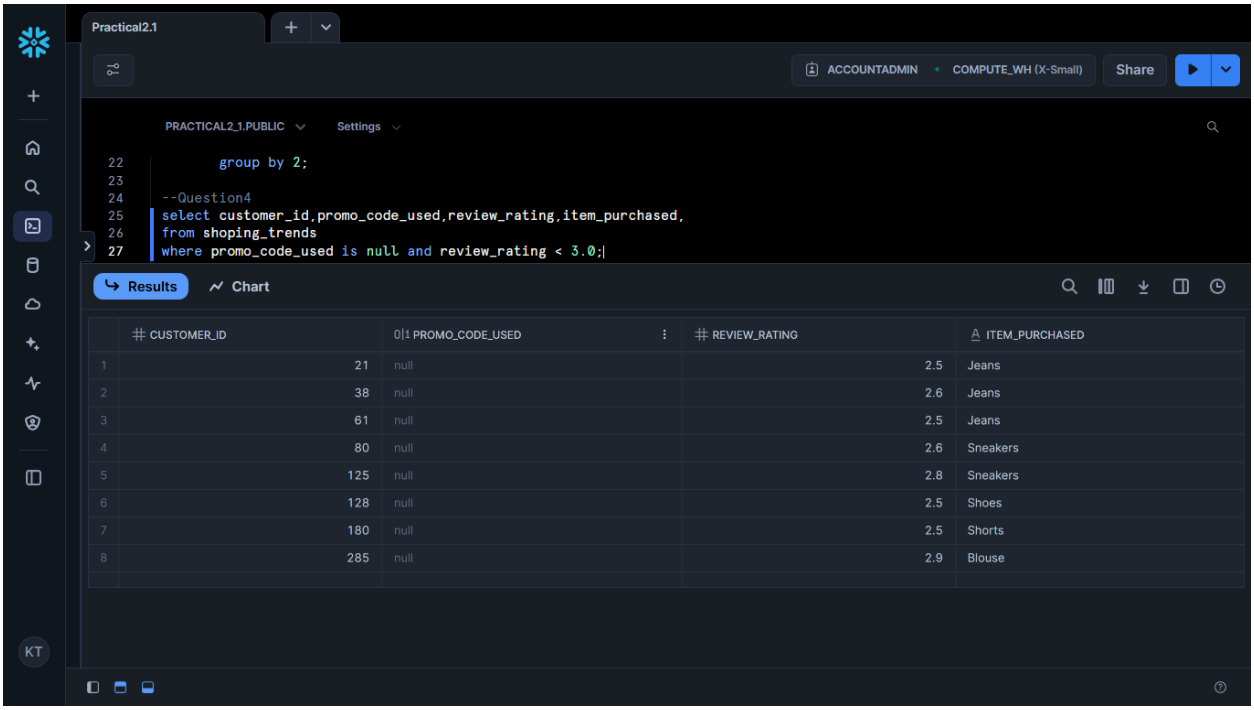
# QUESTION 2


Practical2.1
ACCOUNTADMIN
COMPUTE_WH (X-Small)
Share
PRACTICAL2_1.PUBLIC
Settings
11 --Question2
12 select
13 count(customer_id) as Total_purchases,
14 ifnull(season,'Unknown Season') as Season
15 from shoping_trends
16 group by season;
Results
Chart
TOTAL_PURCHASES
SEASON
1 80 Winter
2 73 Spring
3 27 Unknown Season
4 65 Summer
5 55 Fall
KT

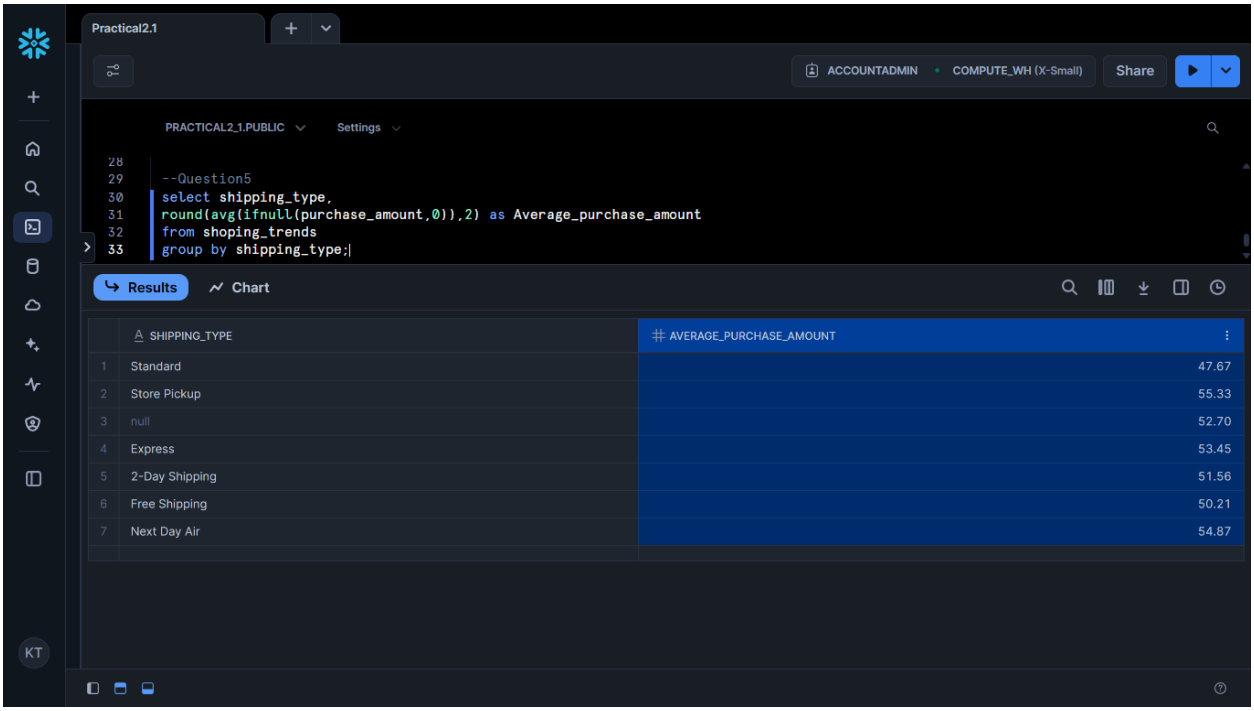
# QUESTION 3


Practical2.1
ACCOUNTADMIN
COMPUTE_WH (X-Small)
Share
PRACTICAL2_1.PUBLIC
Settings
17
18 --Question3
19 select count(customer_id) as Customer_count,
20 ifnull(payment_method,'Not Provided') as Payment_method
21 from shoping_trends
22 group by 2;
Results
Chart
CUSTOMER_COUNT
PAYMENT_METHOD
1 51 PayPal
2 42 Debit Card
3 30 Not Provided
4 38 Bank Transfer
5 53 Venmo
6 44 Credit Card
7 42 Cash
KT

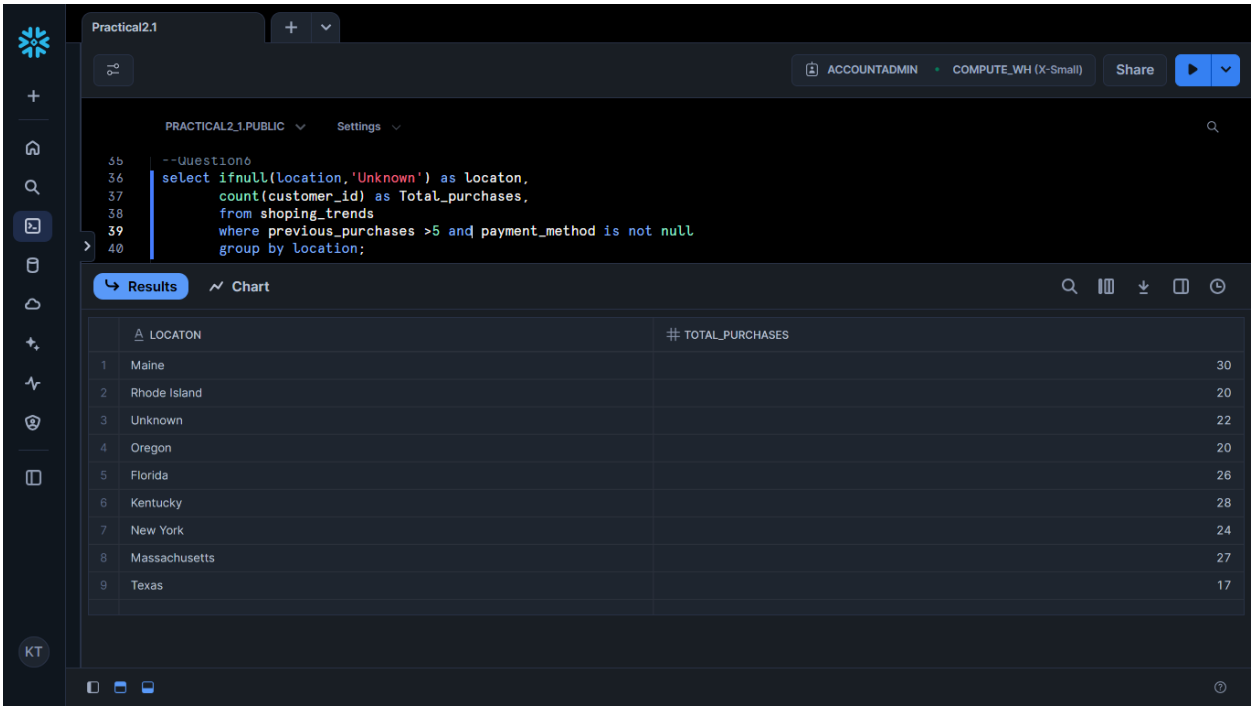
# QUESTION 4


Practical2.1
ACCOUNTADMIN
COMPUTE_WH (X-Small)
Share
PRACTICAL2_1.PUBLIC
Settings
group by 2;
--Question4
select customer_id,promo_code_used,review_rating,item_purchased,
from shoping_trends
where promo_code_used is null and review_rating < 3.0;
Results
Chart
CUSTOMER_ID
PROMO_CODE_USED
REVIEW_RATING
ITEM_PURCHASED
1 21 null 2.5 Jeans
2 38 null 2.6 Jeans
3 61 null 2.5 Jeans
4 80 null 2.6 Sneakers
5 125 null 2.8 Sneakers
6 128 null 2.5 Shoes
7 180 null 2.5 Shorts
8 285 null 2.9 Blouse
KT

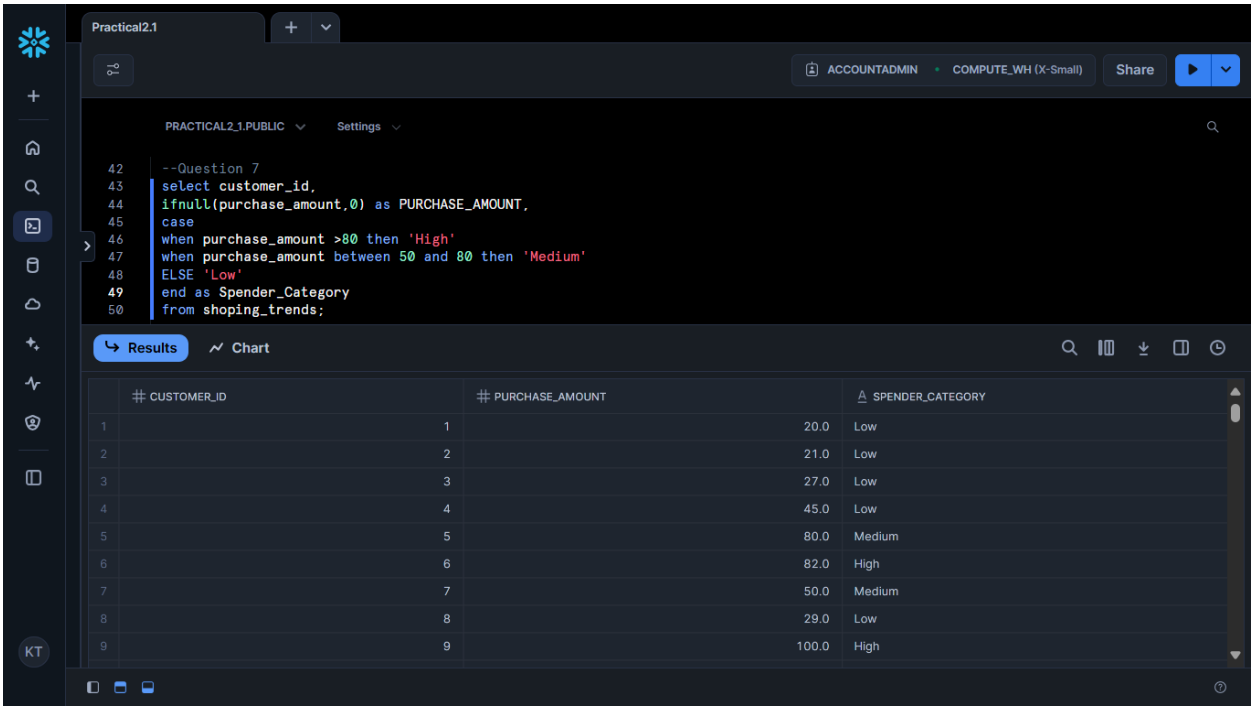
# QUESTION 5


Practical2.1
ACCOUNTADMIN
COMPUTE_WH (X-Small)
Share
PRACTICAL2_1.PUBLIC
Settings
--Question5
select shipping_type,
round(avg(ifnull(purchase_amount,0)),2) as Average_purchase_amount
from shoping_trends
group by shipping_type;
Results
Chart
SHIPPING_TYPE
AVERAGE_PURCHASE_AMOUNT
1 Standard 47.67
2 Store Pickup 55.33
3 null 52.70
4 Express 53.45
5 2-Day Shipping 51.56
6 Free Shipping 50.21
7 Next Day Air 54.87
KT

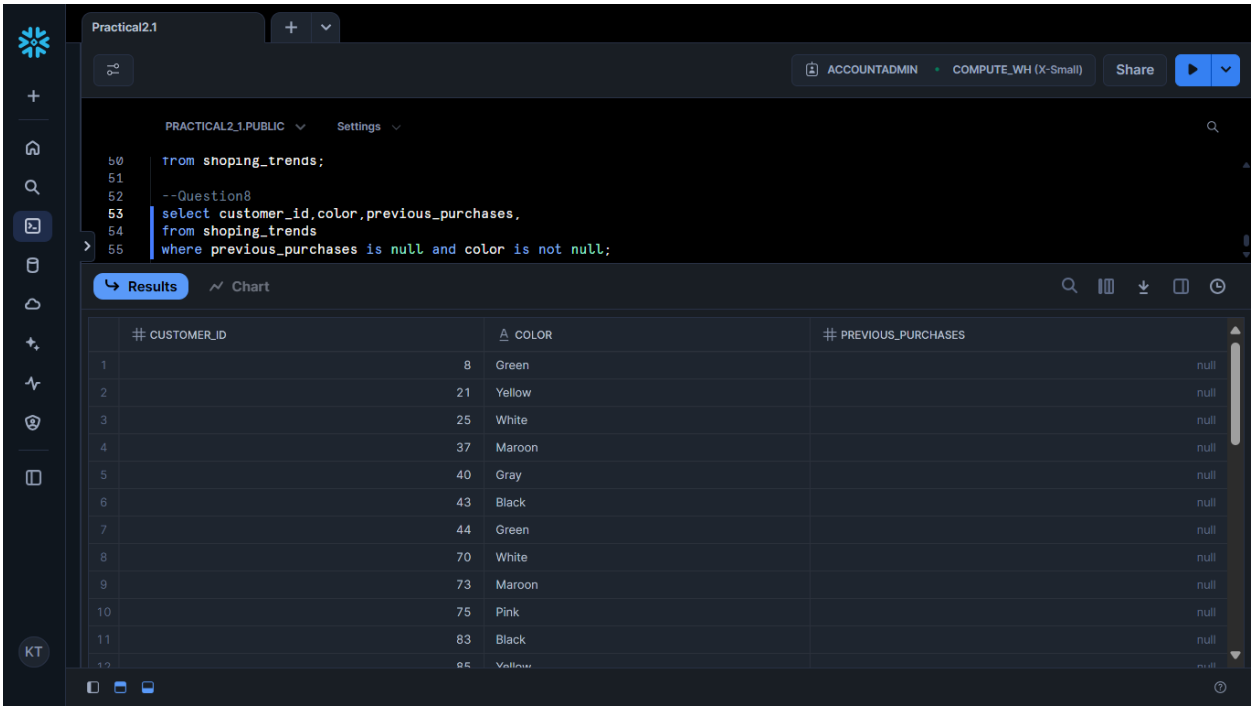
# QUESTION 6


Practical2.1
ACCOUNTADMIN
COMPUTE_WH (X-Small)
Share
PRACTICAL2_1.PUBLIC
Settings
--Question6
select ifnull(location,'Unknown') as Locaton,
count(customer_id) as Total_purchases,
from shoping_trends
where previous_purchases >5 and payment_method is not null
group by location;
Results
Chart
LOCATON
TOTAL_PURCHASES
1 Maine 30
2 Rhode Island 20
3 Unknown 22
4 Oregon 20
5 Florida 26
6 Kentucky 28
7 New York 24
8 Massachusetts 27
9 Texas 17
KT

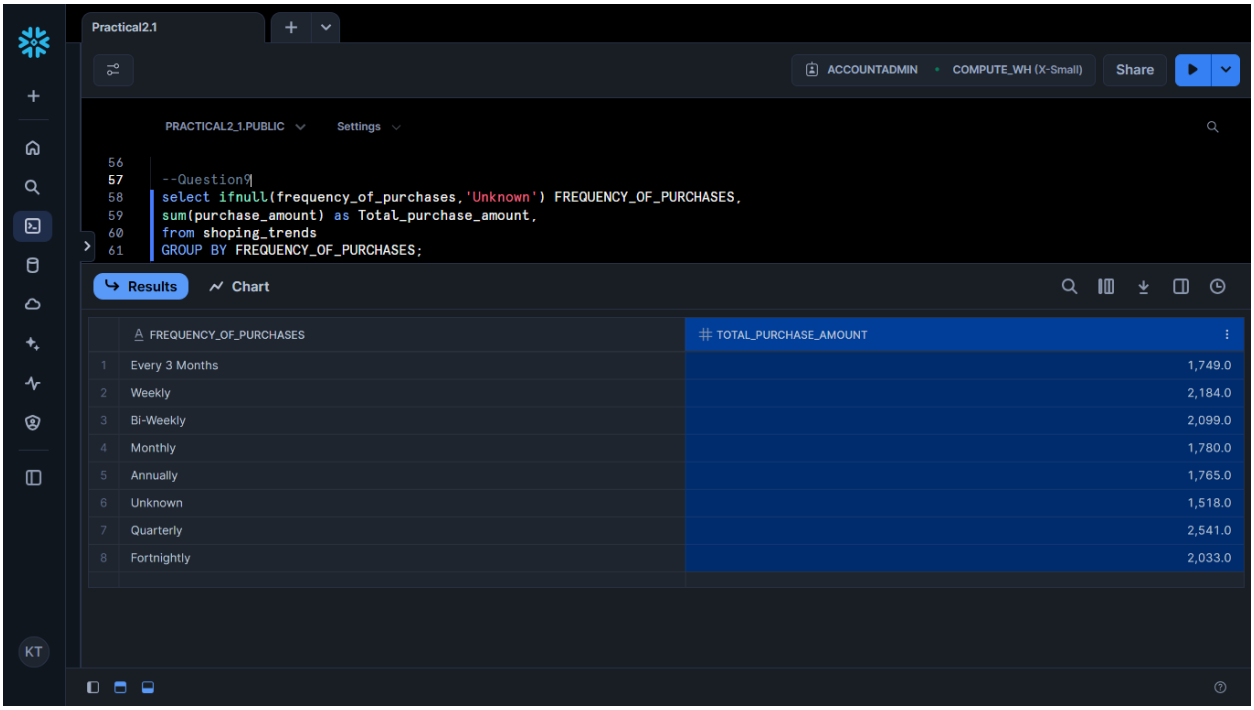
# QUESTION 7


Practical2.1
ACCOUNTADMIN
COMPUTE_WH (X-Small)
Share
PRACTICAL2_1.PUBLIC
Settings
42 --Question 7
43 select customer_id,
44 ifnull(purchase_amount,0) as PURCHASE_AMOUNT,
45 case
46 when purchase_amount >80 then 'High'
47 when purchase_amount between 50 and 80 then 'Medium'
48 ELSE 'Low'
49 end as Spender_Category
50 from shoping_trends;
Results
Chart
CUSTOMER_ID
PURCHASE_AMOUNT
SPENDER_CATEGORY
1 1 20.0 Low
2 2 21.0 Low
3 3 27.0 Low
4 4 45.0 Low
5 5 80.0 Medium
6 6 82.0 High
7 7 50.0 Medium
8 8 29.0 Low
9 9 100.0 High
KT

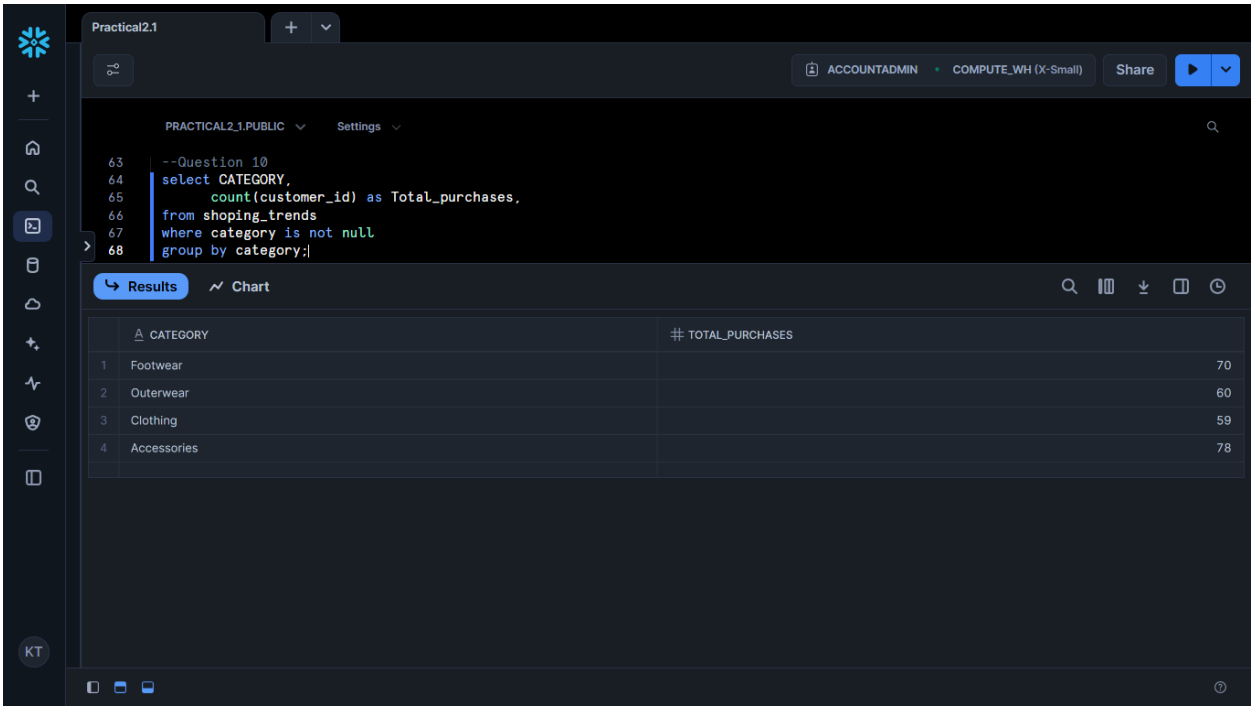
# QUESTION 8


Practical2.1
ACCOUNTADMIN
COMPUTE_WH (X-Small)
Share
PRACTICAL2_1.PUBLIC
Settings
50 from shoping_trends;
51
52 --Question8
53 select customer_id,color,previous_purchases,
54 from shoping_trends
55 where previous_purchases is null and color is not null;
Results
Chart
CUSTOMER_ID
COLOR
PREVIOUS_PURCHASES
1 8 Green null
2 21 Yellow null
3 25 White null
4 37 Maroon null
5 40 Gray null
6 43 Black null
7 44 Green null
8 70 White null
9 73 Maroon null
10 75 Pink null
11 83 Black null
KT

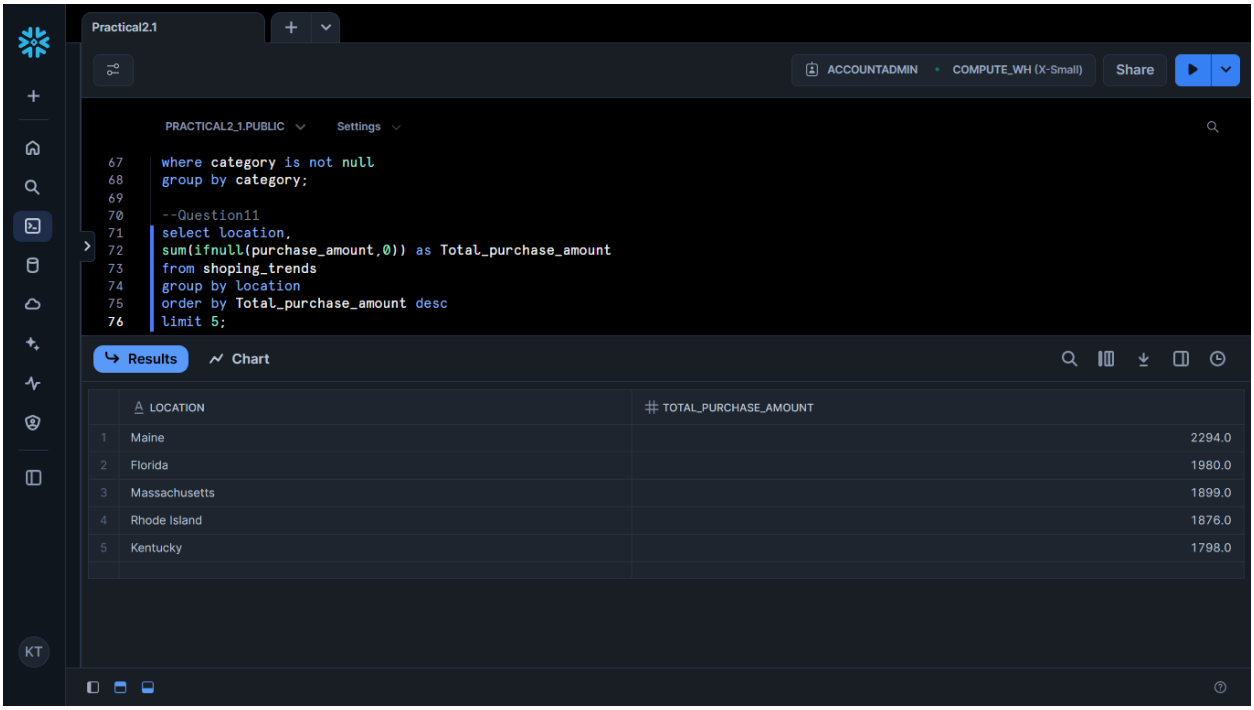
# QUESTION 9


Practical2.1
ACCOUNTADMIN
COMPUTE_WH (X-Small)
Share
PRACTICAL2_1.PUBLIC
Settings
56
57 --Question9
58 select ifnull(frequency_of_purchases,'Unknown') FREQUENCY_OF_PURCHASES,
59 sum(purchase_amount) as Total_purchase_amount,
60 from shoping_trends
61 GROUP BY FREQUENCY_OF_PURCHASES;
Results
Chart
FREQUENCY_OF_PURCHASES
TOTAL_PURCHASE_AMOUNT
1 Every 3 Months 1,749.0
2 Weekly 2,184.0
3 Bi-Weekly 2,099.0
4 Monthly 1,780.0
5 Annually 1,765.0
6 Unknown 1,518.0
7 Quarterly 2,541.0
8 Fortnightly 2,033.0
KT

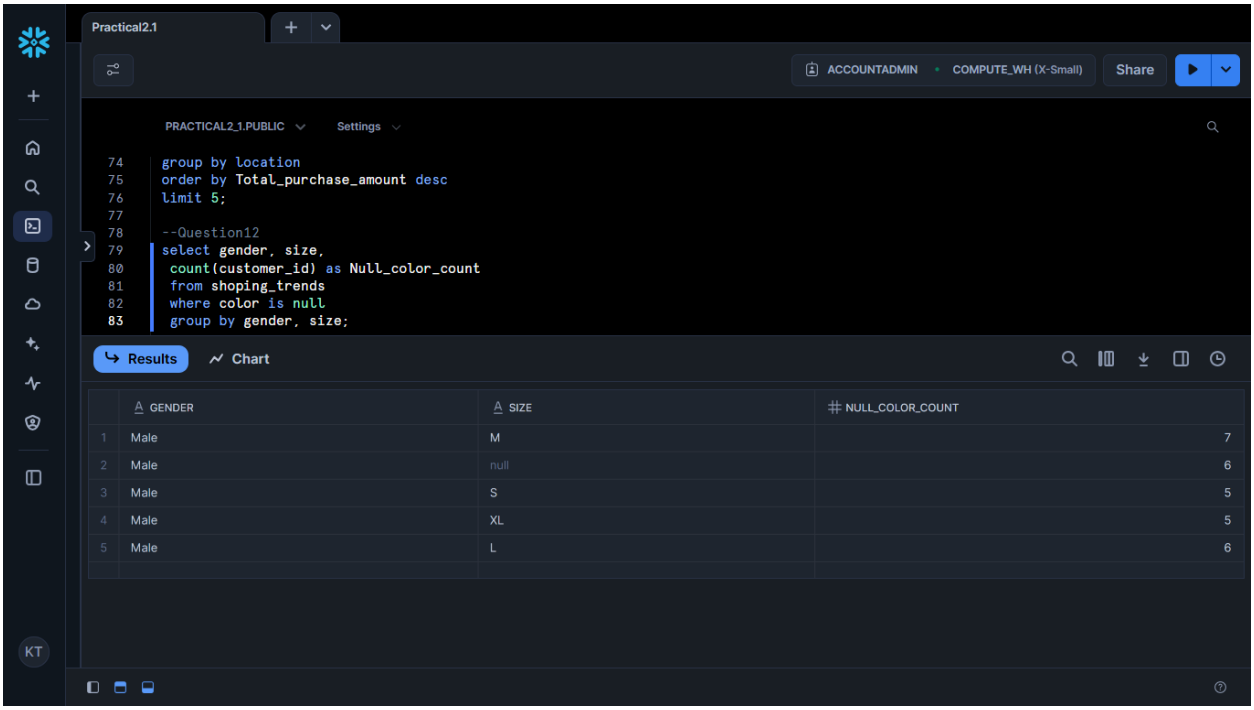
# QUESTION 10


Practical2.1
ACCOUNTADMIN
COMPUTE_WH (X-Small)
Share
PRACTICAL2_1.PUBLIC
Settings
63 --Question 10
64 select CATEGORY,
65 count(customer_id) as Total_purchases,
66 from shoping_trends
67 where category is not null
68 group by category;
Results
Chart
CATEGORY
TOTAL_PURCHASES
1 Footwear 70
2 Outerwear 60
3 Clothing 59
4 Accessories 78
KT

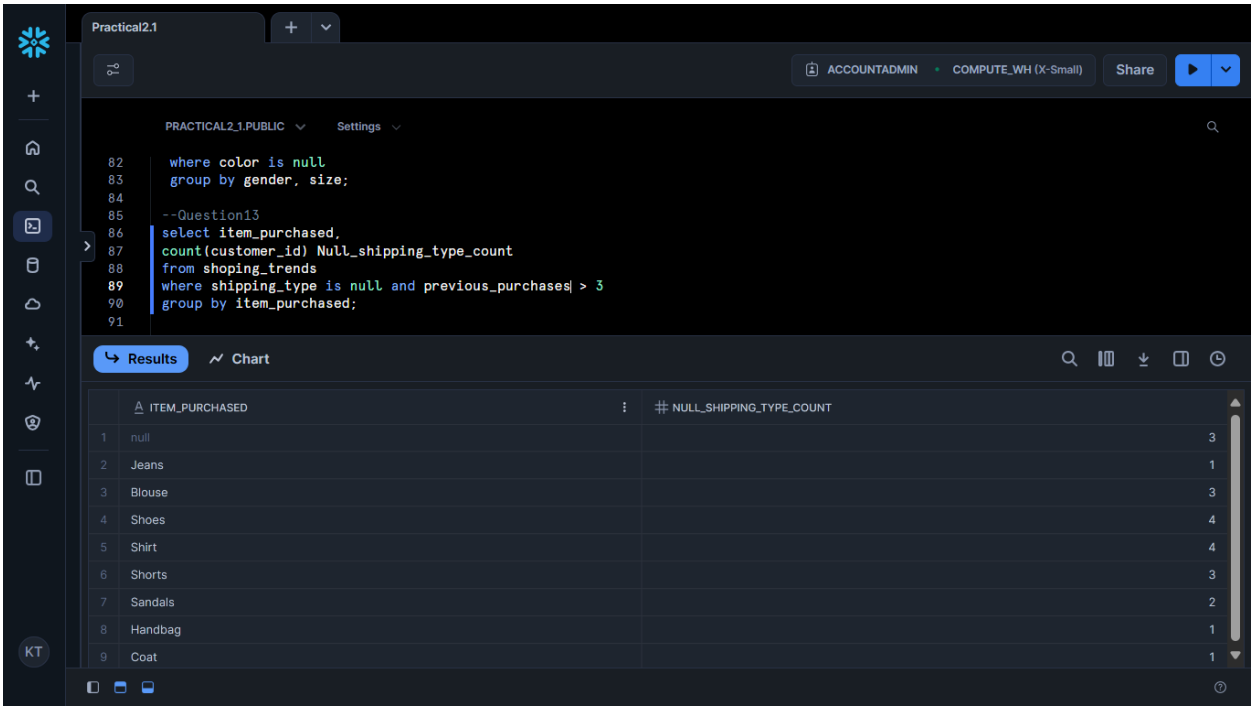
# QUESTION 11


Practical2.1
ACCOUNTADMIN
COMPUTE_WH (X-Small)
Share
PRACTICAL2_1.PUBLIC
Settings
where category is not null
group by category;
--Question11
select location,
sum(ifnull(purchase_amount,0)) as Total_purchase_amount
from shoping_trends
group by location
order by Total_purchase_amount desc
limit 5;
Results
Chart
LOCATION
TOTAL_PURCHASE_AMOUNT
1 Maine 2294.0
2 Florida 1980.0
3 Massachusetts 1899.0
4 Rhode Island 1876.0
5 Kentucky 1798.0
KT

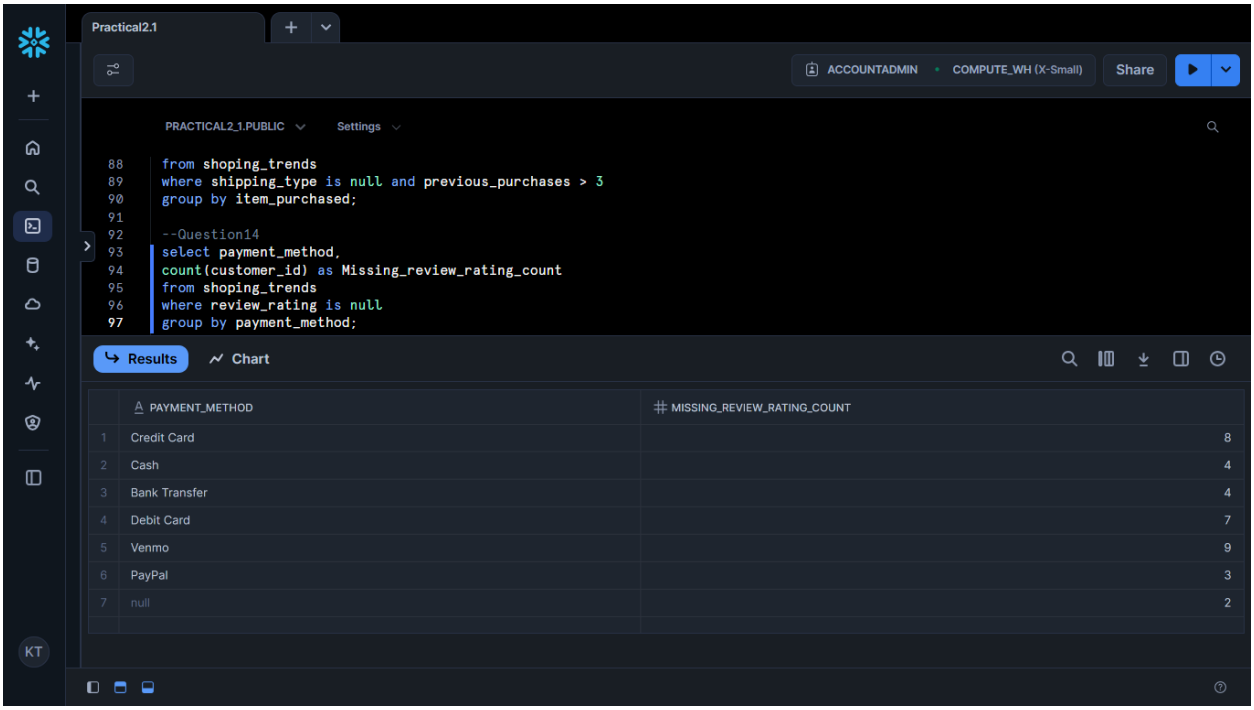
# QUESTION 12


Practical2.1
ACCOUNTADMIN
COMPUTE_WH (X-Small)
Share
PRACTICAL2_1.PUBLIC
Settings
group by location
order by Total_purchase_amount desc
limit 5;
--Question12
select gender, size,
count(customer_id) as Null_color_count
from shoping_trends
where color is null
group by gender, size;
Results
Chart
GENDER
SIZE
NULL_COLOR_COUNT
1 Male M 7
2 Male null 6
3 Male S 5
4 Male XL 5
5 Male L 6
KT

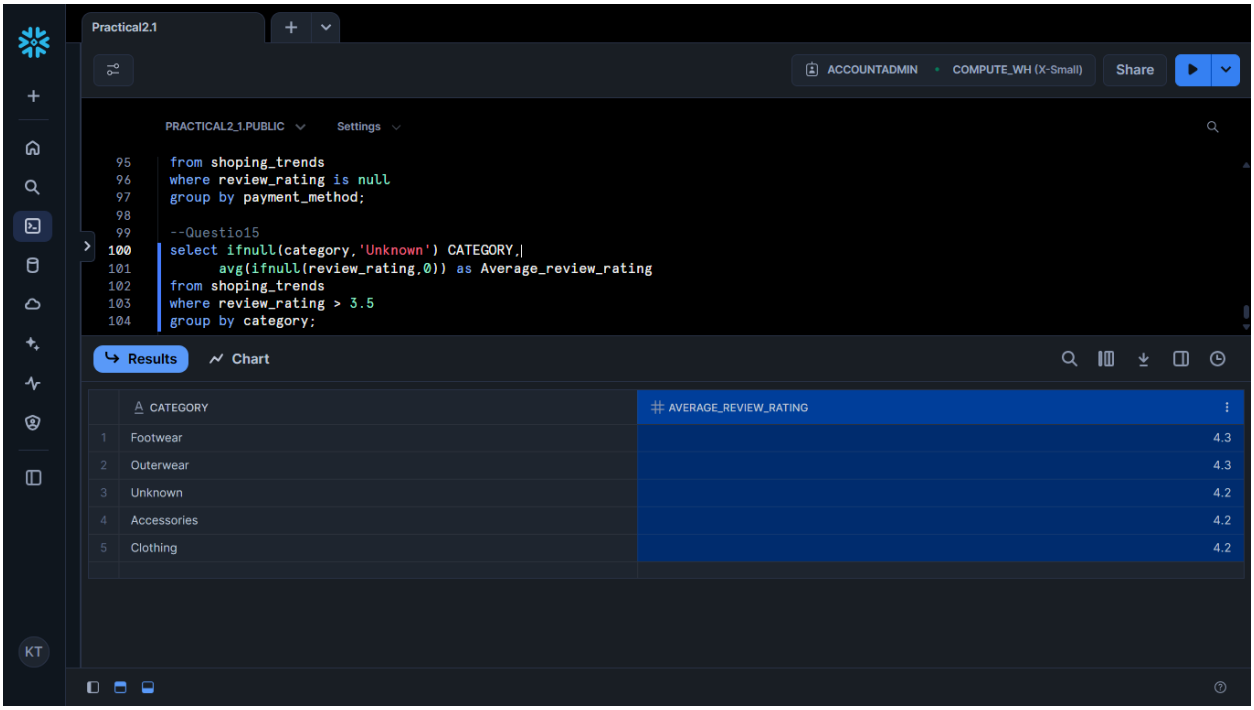
# QUESTION 13


Practical2.1
ACCOUNTADMIN
COMPUTE_WH (X-Small)
Share
PRACTICAL2_1.PUBLIC
Settings
where color is null
group by gender, size;
--Question13
select item_purchased,
count(customer_id) Null_shipping_type_count
from shoping_trends
where shipping_type is null and previous_purchases > 3
group by item_purchased;
Results
Chart
ITEM_PURCHASED
NULL_SHIPPING_TYPE_COUNT
1 null 3
2 Jeans 1
3 Blouse 3
4 Shoes 4
5 Shirt 4
6 Shorts 3
7 Sandals 2
8 Handbag 1
9 Coat 1
KT

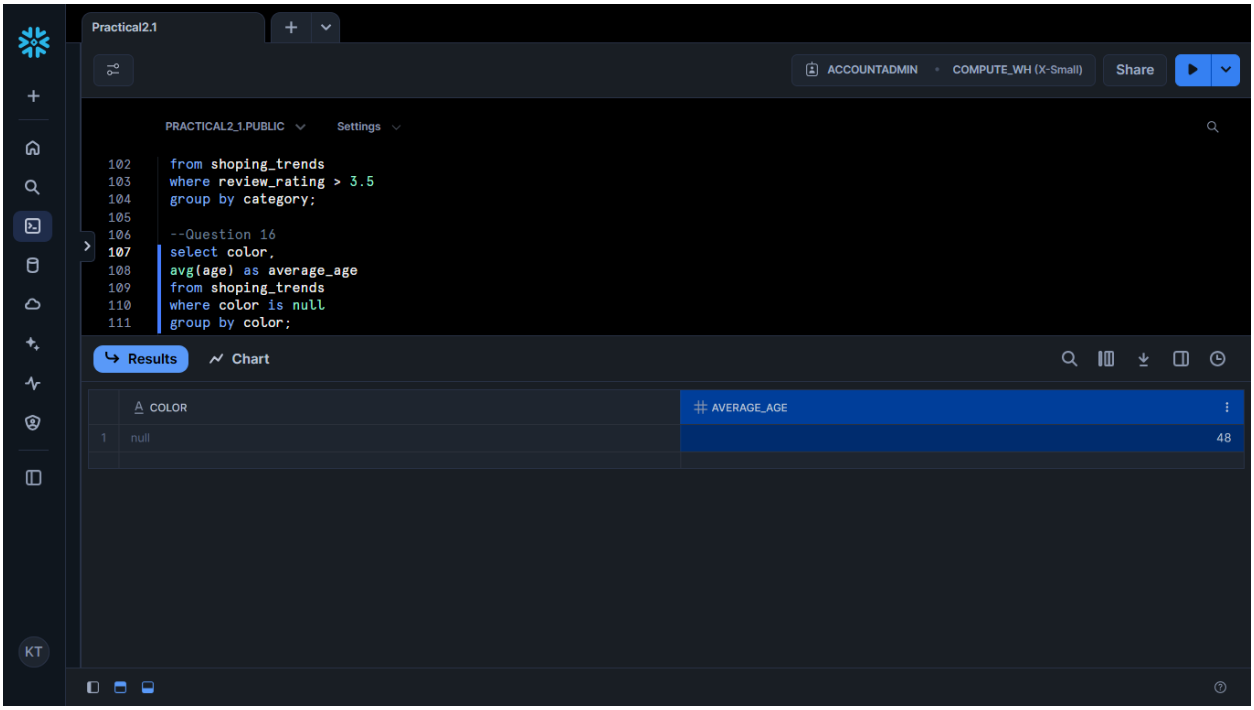
# QUESTION 14


Practical2.1
ACCOUNTADMIN
COMPUTE_WH (X-Small)
Share
PRACTICAL2_1.PUBLIC
Settings
88 from shoping_trends
89 where shipping_type is null and previous_purchases > 3
90 group by item_purchased;
91
92 --Question14
93 select payment_method,
94 count(customer_id) as Missing_review_rating_count
95 from shoping_trends
96 where review_rating is null
97 group by payment_method;
Results
Chart
PAYMENT_METHOD
MISSING_REVIEW_RATING_COUNT
1 Credit Card 8
2 Cash 4
3 Bank Transfer 4
4 Debit Card 7
5 Venmo 9
6 PayPal 3
7 null 2
KT

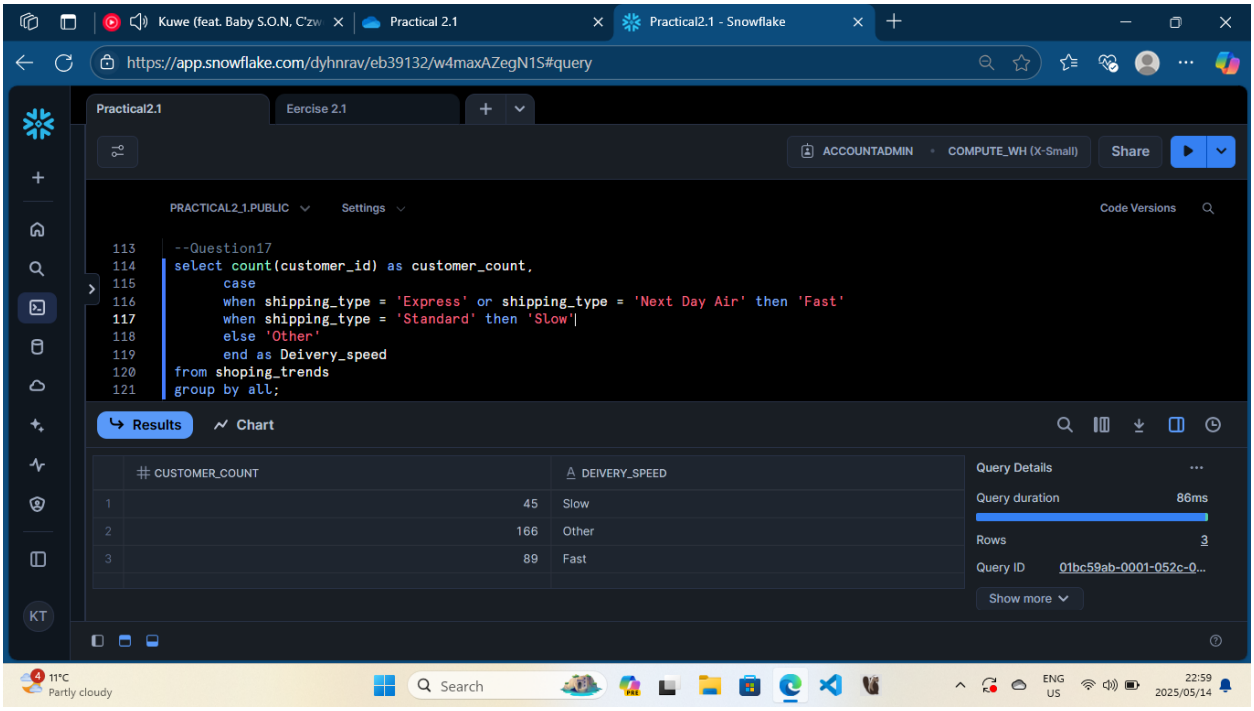
# QUESTION 15


Practical2.1
ACCOUNTADMIN
COMPUTE_WH (X-Small)
Share
PRACTICAL2_1.PUBLIC
Settings
95 from shoping_trends
96 where review_rating is null
97 group by payment_method;
98
99 --Questio15
100 select ifnull(category,'Unknown') CATEGORY,
101 avg(ifnull(review_rating,0)) as Average_review_rating
102 from shoping_trends
103 where review_rating > 3.5
104 group by category;
Results
Chart
CATEGORY
AVERAGE_REVIEW_RATING
1 Footwear 4.3
2 Outerwear 4.3
3 Unknown 4.2
4 Accessories 4.2
5 Clothing 4.2
KT

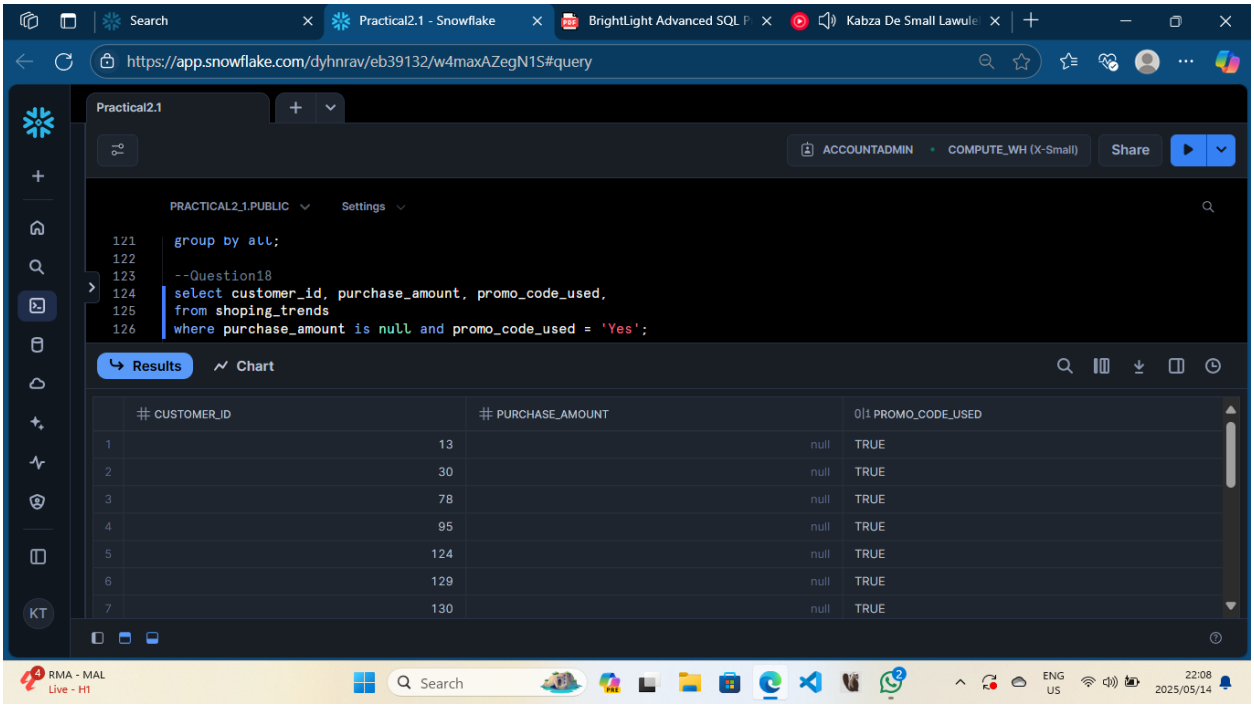
# QUESTION 16


Practical2.1
ACCOUNTADMIN
COMPUTE_WH (X-Small)
Share
PRACTICAL2_1.PUBLIC
Settings
from shoping_trends
where review_rating > 3.5
group by category;
--Question 16
select color,
avg(age) as average_age
from shoping_trends
where color is null
group by color;
Results
Chart
COLOR
AVERAGE_AGE
1
null
48
KT

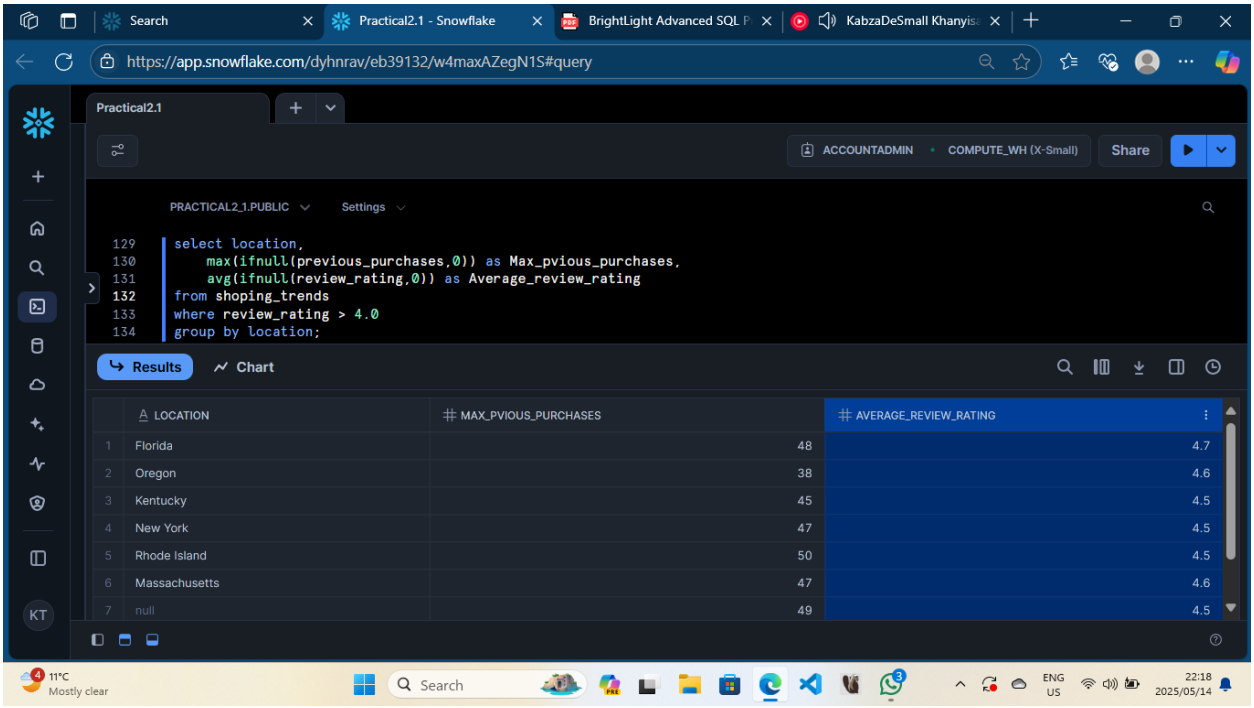
# QUESTION 17


Practical 2.1
Practical2.1 - Snowflake
https://app.snowflake.com/dyhnrav/eb39132/w4maxAZegN1S#query
Practical2.1
Eercise 2.1
ACCOUNTADMIN
COMPUTE_WH (X-Small)
Share
PRACTICAL2_1.PUBLIC
Settings
Code Versions
--Question17
select count(customer_id) as customer_count,
case
when shipping_type = 'Express' or shipping_type = 'Next Day Air' then 'Fast'
when shipping_type = 'Standard' then 'Slow'
else 'Other'
end as Deivery_speed
from shoping_trends
group by all;
Results
Chart
CUSTOMER_COUNT
DEIVERY_SPEED
1 45 Slow
2 166 Other
3 89 Fast
Query Details
Query duration 86ms
Rows 3
Query ID 01bc59ab-0001-052c-0...
Show more
11°C
Partly cloudy
Search
ENG
US
22:59
2025/05/14

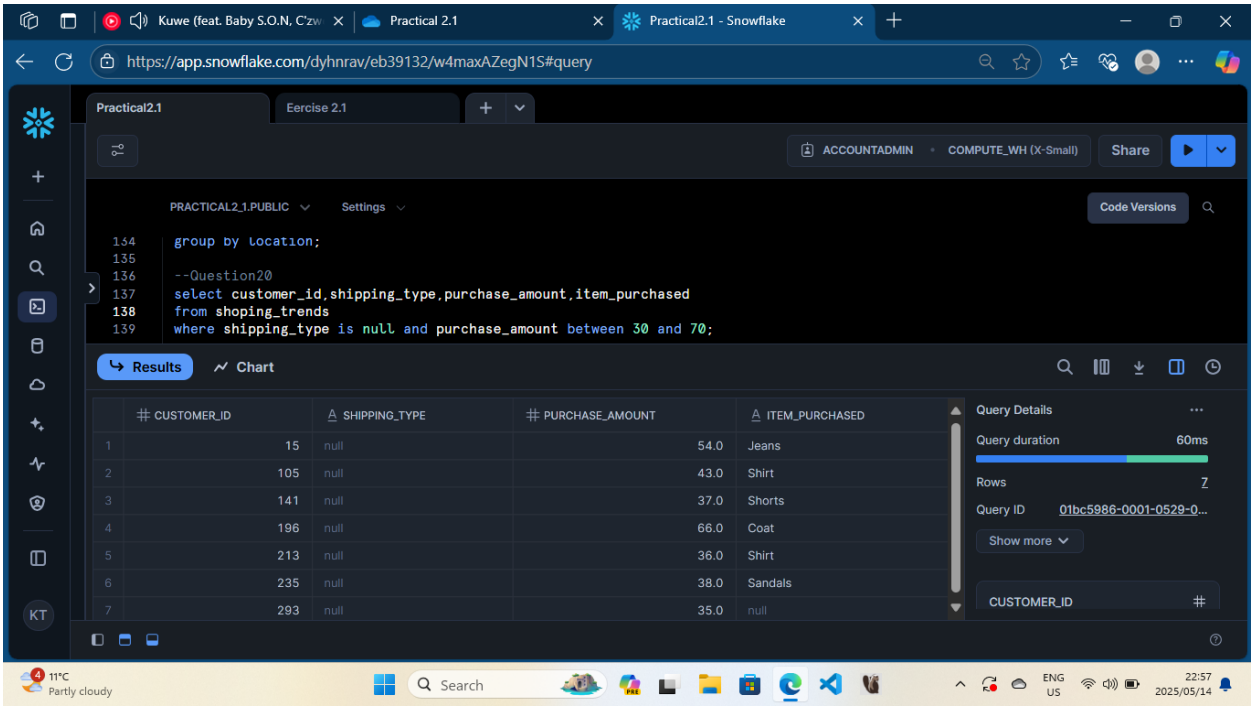
# QUESTION 18


Search
Practical2.1 - Snowflake
BrightLight Advanced SQL P
Kabza De Small Lawule
https://app.snowflake.com/dyhnrav/eb39132/w4maxAZegN1S#query
Practical2.1
ACCOUNTADMIN
COMPUTE_WH (X-Small)
Share
PRACTICAL2_1.PUBLIC
Settings
121 group by all;
122
123 --Question18
124 select customer_id, purchase_amount, promo_code_used,
125 from shoping_trends
126 where purchase_amount is null and promo_code_used = 'Yes';
Results
Chart
CUSTOMER_ID
PURCHASE_AMOUNT
PROMO_CODE_USED
1 13 null TRUE
2 30 null TRUE
3 78 null TRUE
4 95 null TRUE
5 124 null TRUE
6 129 null TRUE
7 130 null TRUE
KT
RMA - MAL
Live - H1
Search
ENG
US
22:08
2025/05/14

# QUESTION 19


Search
Practical2.1 - Snowflake
BrightLight Advanced SQL P
KabzaDeSmall Khanyis
https://app.snowflake.com/dyhnrav/eb39132/w4maxAZegN1S#query
Practical2.1
ACCOUNTADMIN
COMPUTE_WH (X-Small)
Share
PRACTICAL2_1.PUBLIC
Settings
129 select location,
130 max(ifnull(previous_purchases,0)) as Max_pvious_purchases,
131 avg(ifnull(review_rating,0)) as Average_review_rating
132 from shoping_trends
133 where review_rating > 4.0
134 group by location;
Results
Chart
LOCATION
MAX_PVIOUS_PURCHASES
AVERAGE_REVIEW_RATING
1 Florida 48 4.7
2 Oregon 38 4.6
3 Kentucky 45 4.5
4 New York 47 4.5
5 Rhode Island 50 4.5
6 Massachusetts 47 4.6
7 null 49 4.5
11°C
Mostly clear
Search
ENG
US
22:18
2025/05/14

# QUESTION 20


Practical 2.1
Practical2.1 - Snowflake
https://app.snowflake.com/dyhnrav/eb39132/w4maxAZegN1S#query
Practical2.1
Eercise 2.1
ACCOUNTADMIN
COMPUTE_WH (X-Small)
Share
PRACTICAL2_1.PUBLIC
Settings
Code Versions
group by location;
--Question20
select customer_id,shipping_type,purchase_amount,item_purchased
from shoping_trends
where shipping_type is null and purchase_amount between 30 and 70;
Results
Chart
CUSTOMER_ID
SHIPPING_TYPE
PURCHASE_AMOUNT
ITEM_PURCHASED
15 null 54.0 Jeans
105 null 43.0 Shirt
141 null 37.0 Shorts
196 null 66.0 Coat
213 null 36.0 Shirt
235 null 38.0 Sandals
293 null 35.0 null
Query Details
Query duration
60ms
Rows
Query ID
Show more
CUSTOMER_ID
11°C
Partly cloudy
Search
ENG
US
22:57
2025/05/14