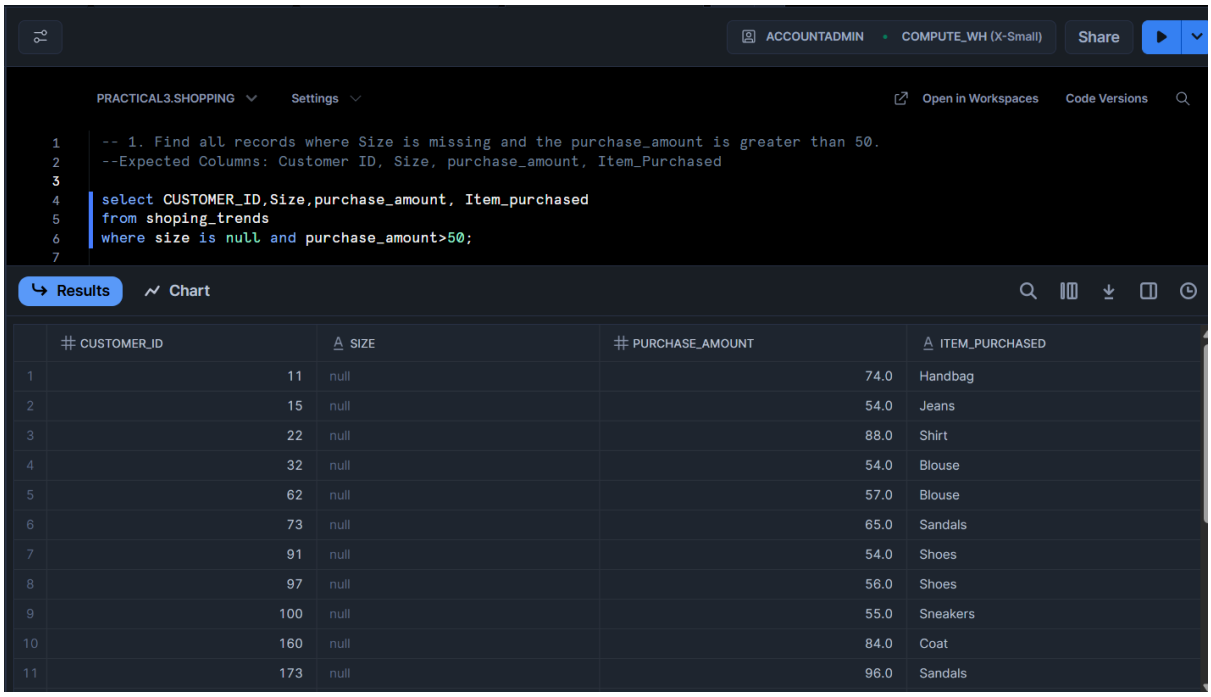
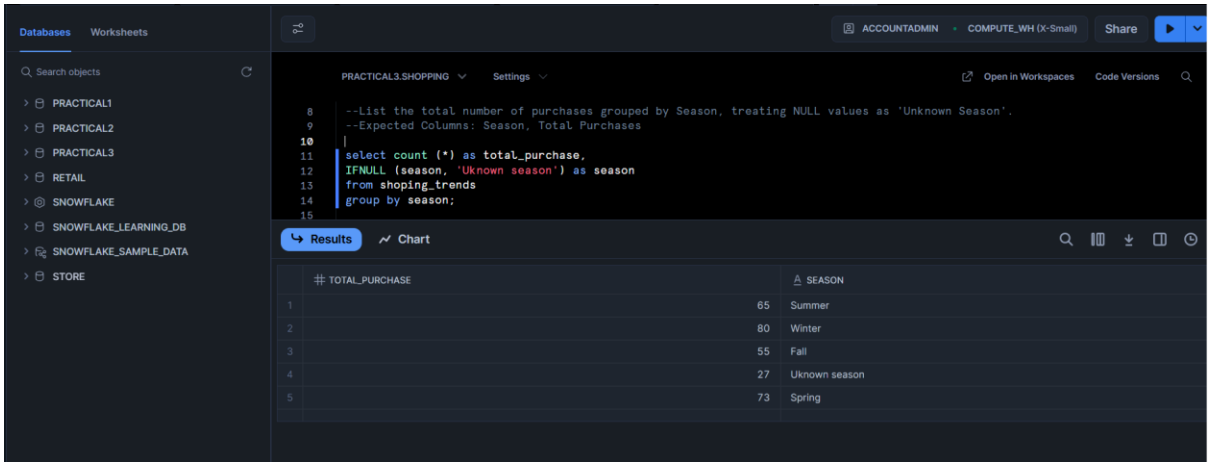
Q.1



```
-- 1. Find all records where Size is missing and the purchase_amount is greater than 50.
--Expected Columns: Customer ID, Size, purchase_amount, Item_Purchased

select CUSTOMER_ID,Size,purchase_amount, Item_purchased
from shoping_trends
where size is null and purchase_amount>50;
```

	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
8	97	null	56.0	Shoes
9	100	null	55.0	Sneakers
10	160	null	84.0	Coat
11	173	null	96.0	Sandals

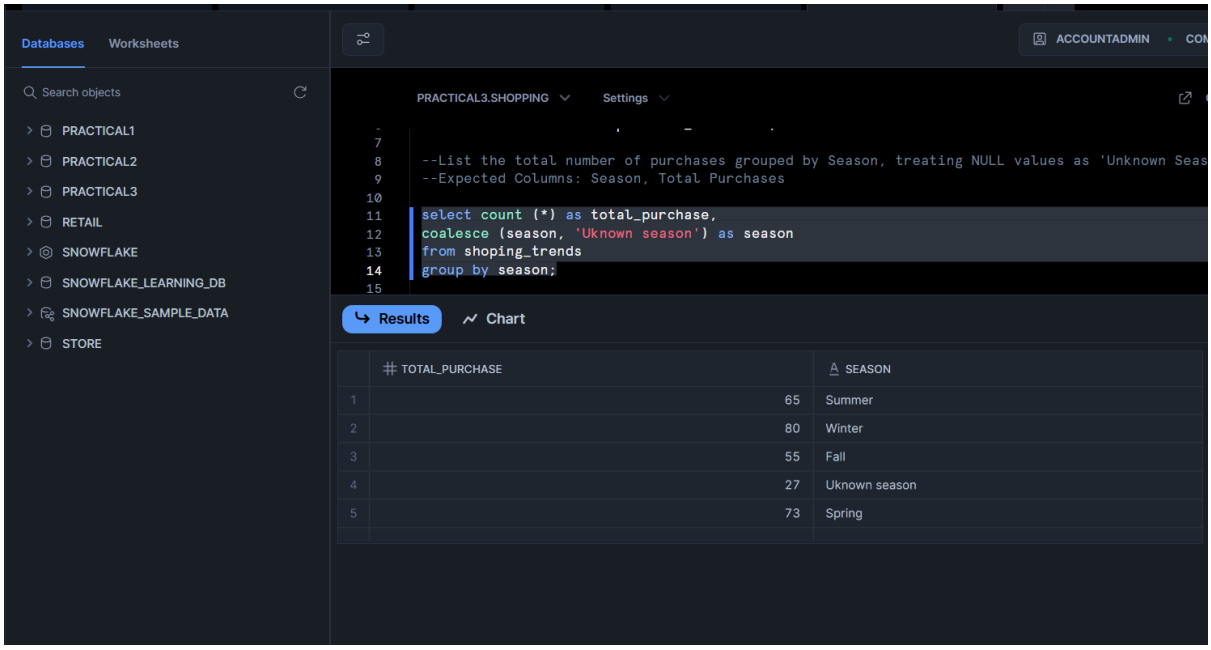
Q.2 Using IFNULL



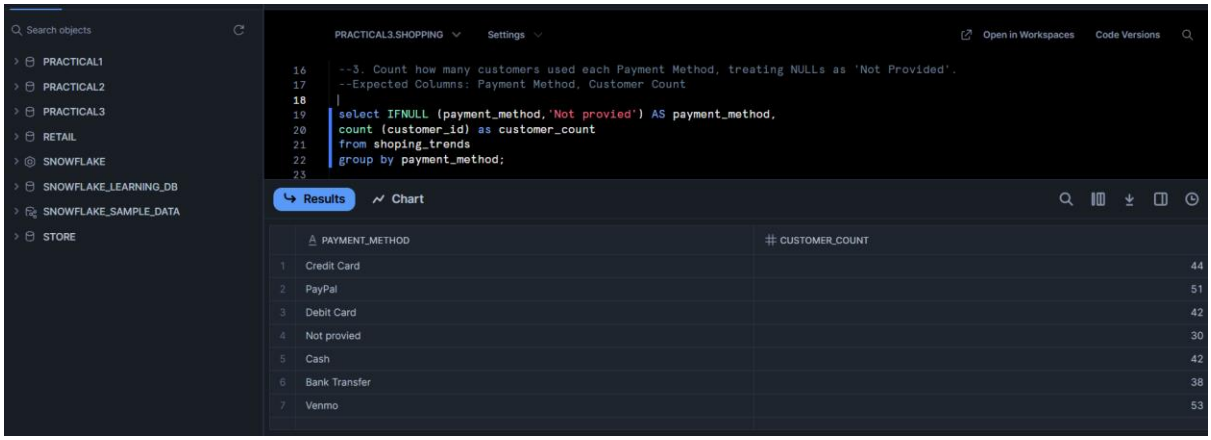
```
--List the total number of purchases grouped by Season, treating NULL values as 'Unknown Season'.
--Expected Columns: Season, Total Purchases

select count (*) as total_purchase,
IFNULL (season, 'Uknown season') as season
from shoping_trends
group by season;
```

	TOTAL_PURCHASE	SEASON
1	65	Summer
2	80	Winter
3	55	Fall
4	27	Uknown season
5	73	Spring

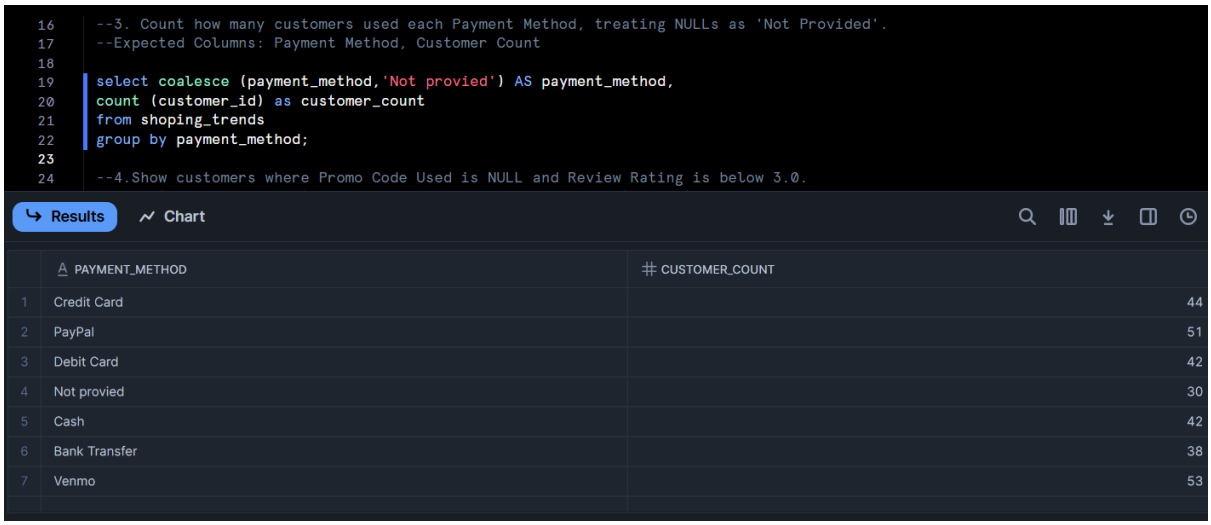
Q.2 Using Coalesce



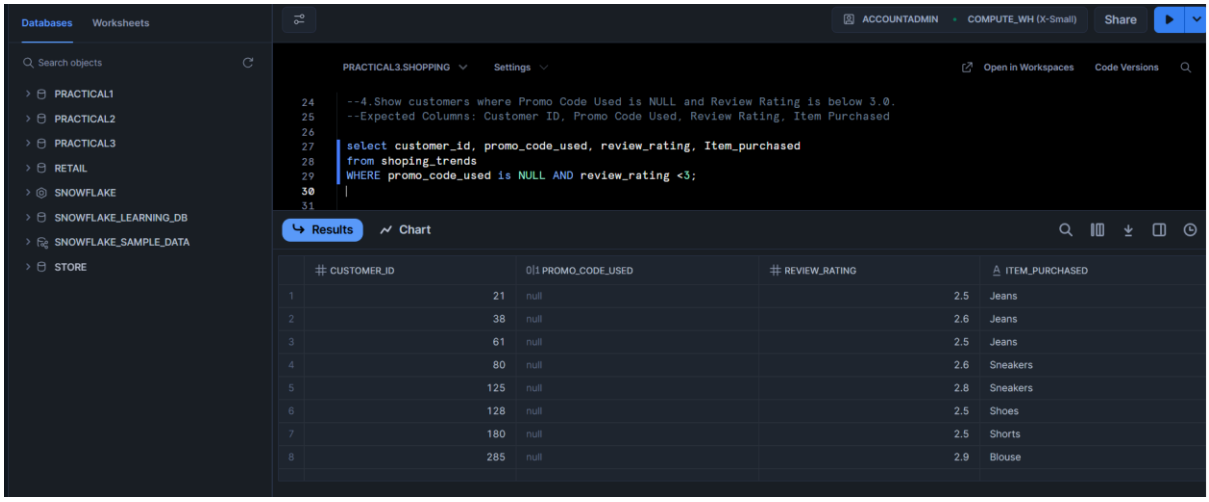
Q.3 Using IFNULL



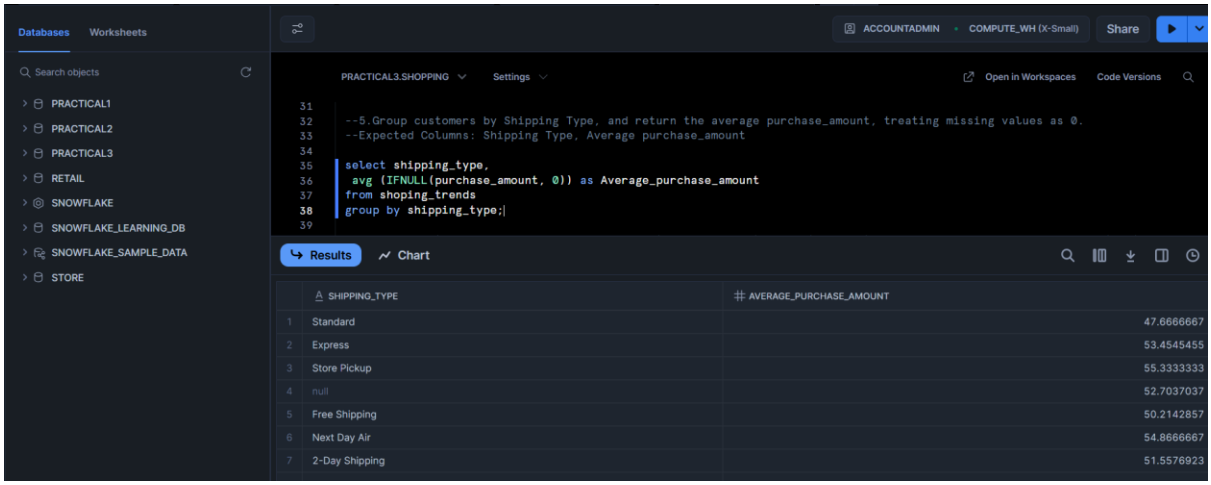
Q.3 Using Coalesce



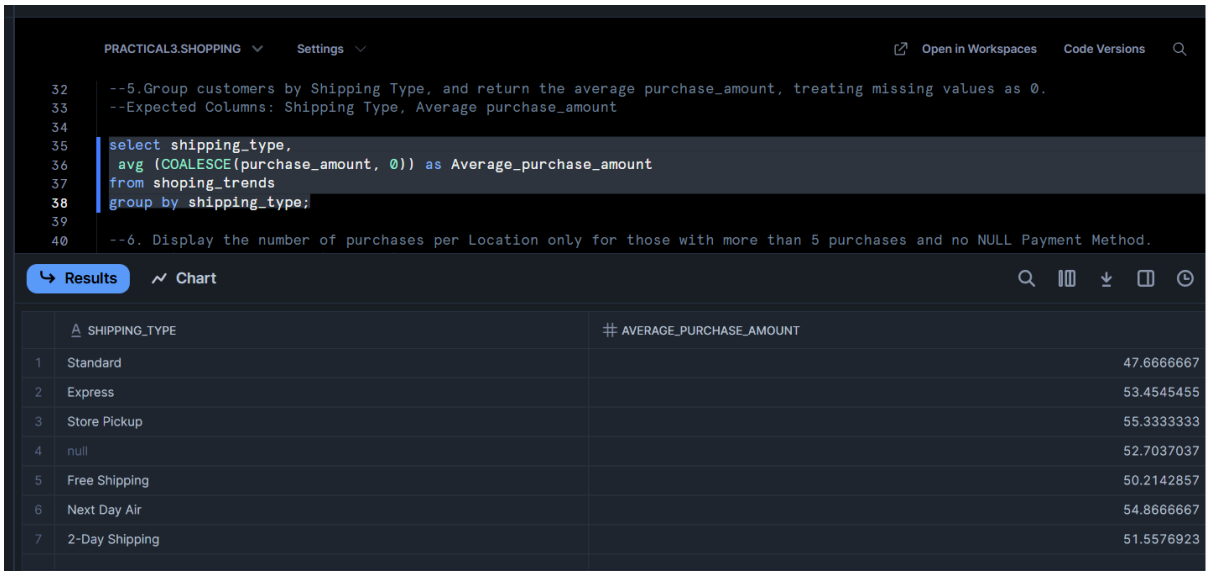
Q.4



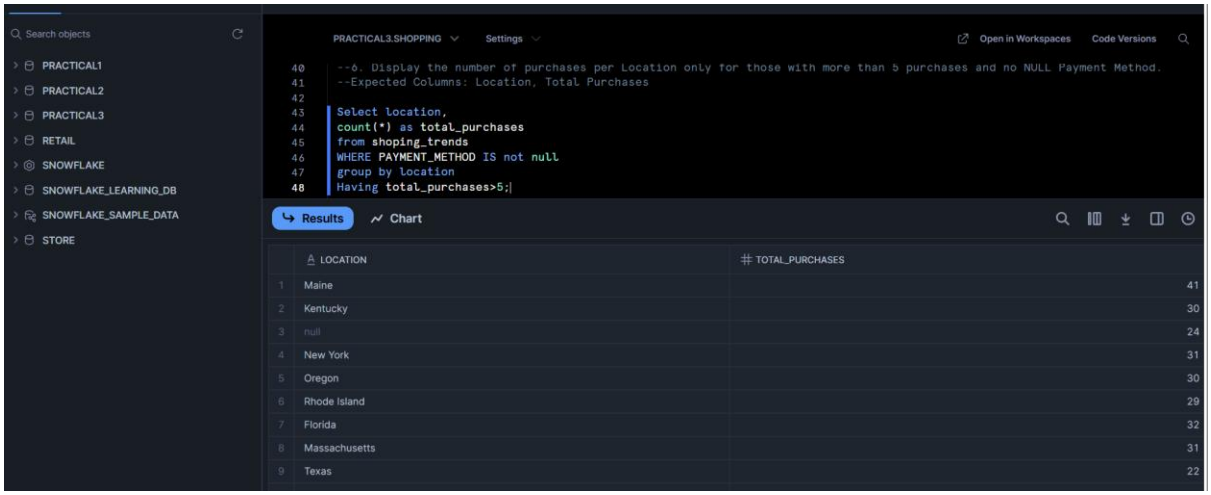
Q.5 Using IfNull



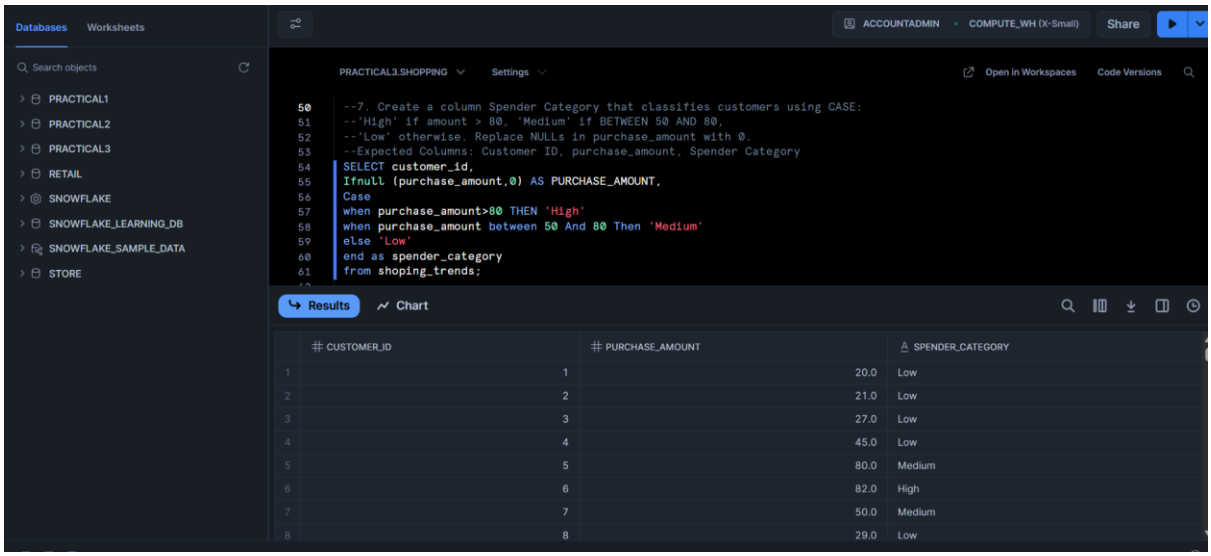
Q.5 Using Coalesce



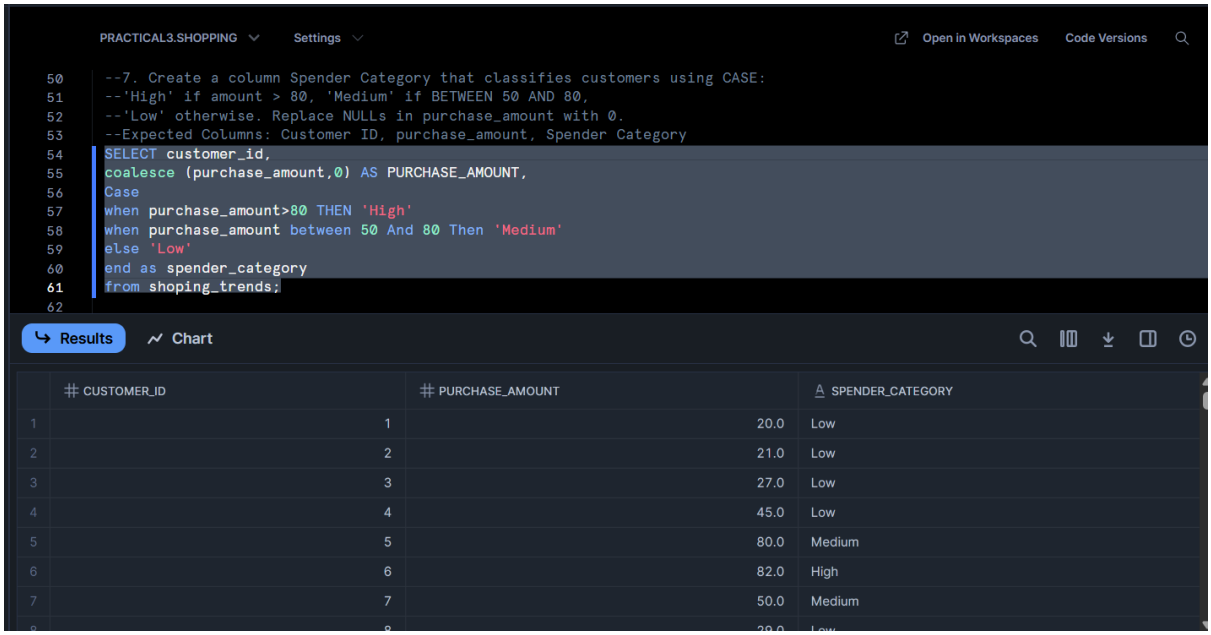
Q.6



Q.7Using IFNULL



Q.7 Using Coalesce

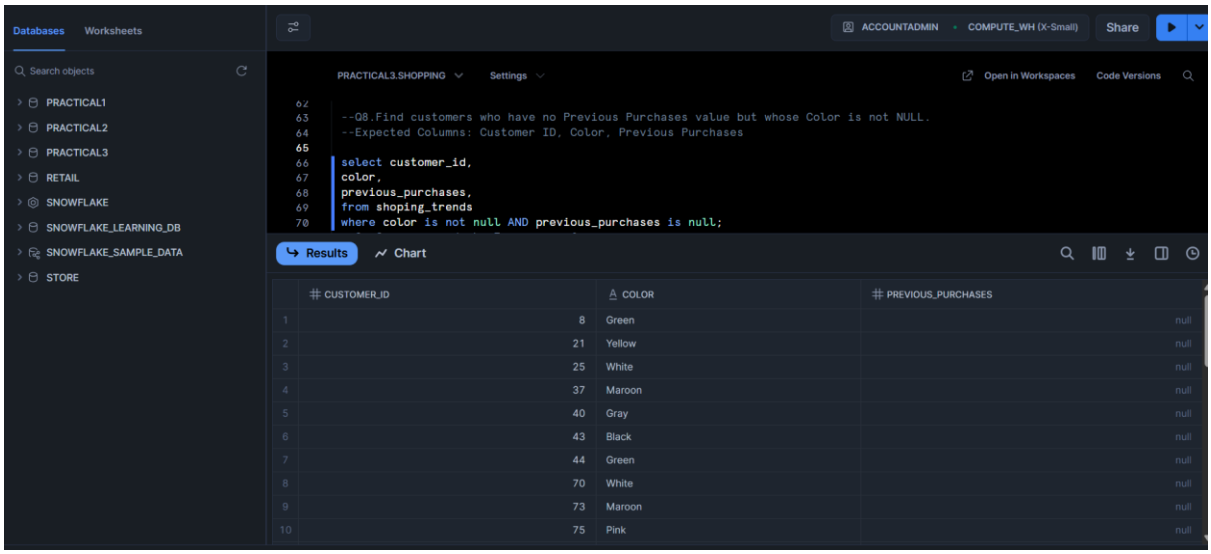


```
PRACTICAL3.SHOPPING  Settings                                   Open in Workspaces  Code Versions
50  --7. Create a column Spender Category that classifies customers using CASE:
51  --'High' if amount > 80, 'Medium' if BETWEEN 50 AND 80,
52  --'Low' otherwise. Replace NULLs in purchase_amount with 0.
53  --Expected Columns: Customer ID, purchase_amount, Spender Category
54  SELECT customer_id,
55  coalesce (purchase_amount,0) AS PURCHASE_AMOUNT,
56  Case
57  when purchase_amount>80 THEN 'High'
58  when purchase_amount between 50 And 80 Then 'Medium'
59  else 'Low'
60  end as spender_category
61  from shoping_trends;
62
```

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

Q.8



Databases | Worksheets

Search objects

- PRACTICAL1
- PRACTICAL2
- PRACTICAL3
- RETAIL
- SNOWFLAKE
- SNOWFLAKE_LEARNING_DB
- SNOWFLAKE_SAMPLE_DATA
- STORE

ACCOUNTADMIN · COMPUTE_WH (X-Small) Share

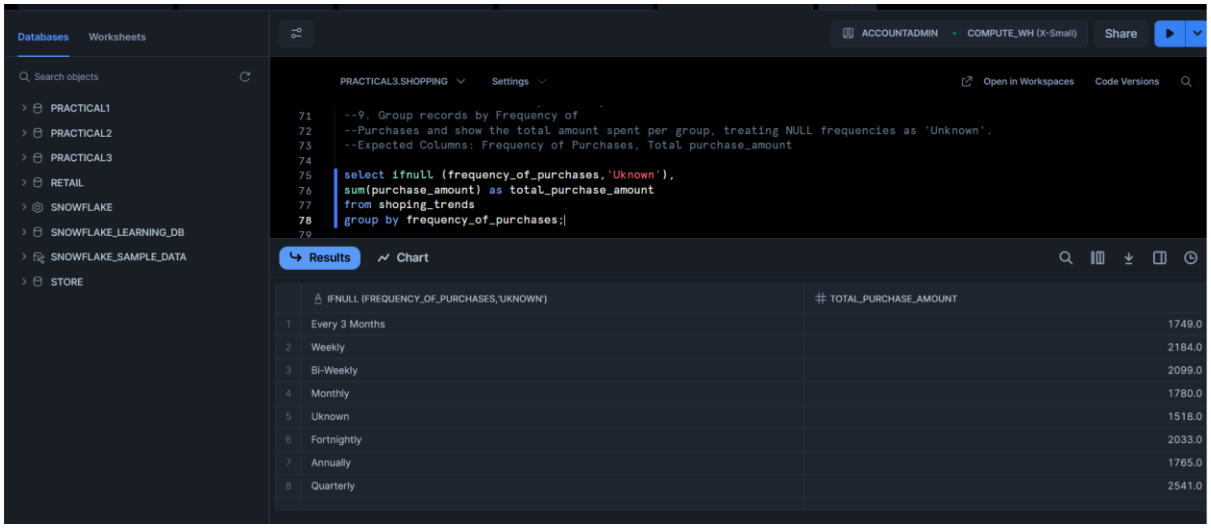
PRACTICAL3.SHOPPING Settings Open in Workspaces Code Versions

```
62
63  --Q8.Find customers who have no Previous Purchases value but whose Color is not NULL.
64  --Expected Columns: Customer ID, Color, Previous Purchases
65
66  select customer_id,
67  color,
68  previous_purchases,
69  from shoping_trends
70  where color is not null AND previous_purchases is 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

Q.9


Databases
Worksheets
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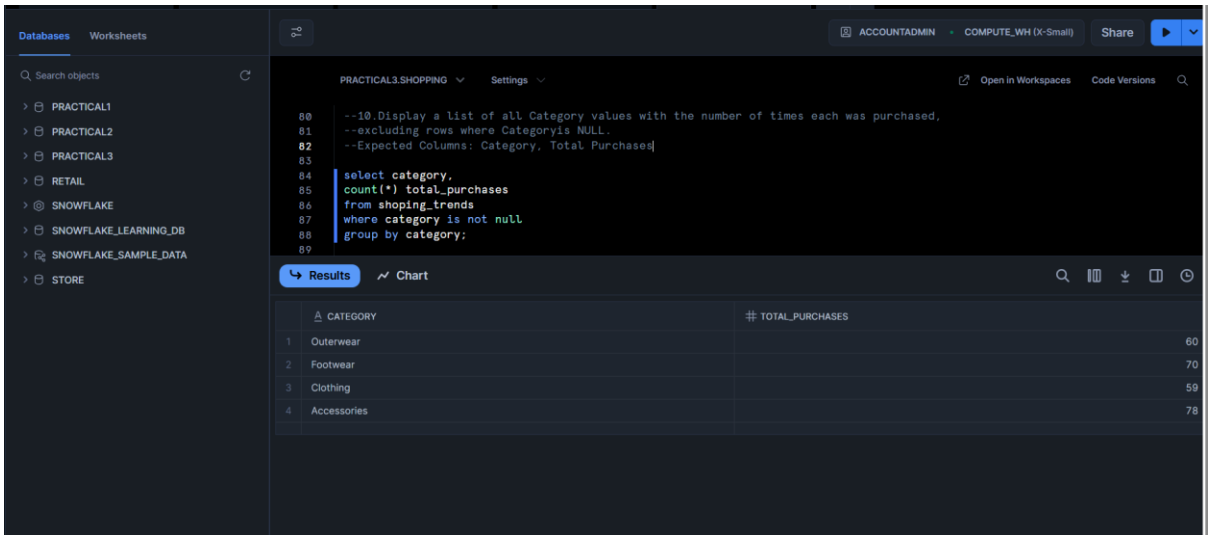
PRACTICAL1
PRACTICAL2
PRACTICAL3
RETAIL
SNOWFLAKE
SNOWFLAKE_LEARNING_DB
SNOWFLAKE_SAMPLE_DATA
STORE
ACCOUNTADMIN
COMPUTE_WH (X-Small)
Share
PRACTICAL3.SHOPPING
Settings
Open in Workspaces
Code Versions
--9. Group records by Frequency of
--Purchases and show the total amount spent per group, treating NULL frequencies as 'Unknown'.
--Expected Columns: Frequency of Purchases, Total purchase_amount
select ifnull (frequency_of_purchases,'Uknown'),
sum(purchase_amount) as total_purchase_amount
from shoping_trends
group by frequency_of_purchases;
Results
Chart
IFNULL (FREQUENCY_OF_PURCHASES,'UKNOWN')
TOTAL_PURCHASE_AMOUNT
1 Every 3 Months 1749.0
2 Weekly 2184.0
3 Bi-Weekly 2099.0
4 Monthly 1780.0
5 Uknown 1518.0
6 Fortnightly 2033.0
7 Annually 1765.0
8 Quarterly 2541.0

Q.10


Databases
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PRACTICAL1
PRACTICAL2
PRACTICAL3
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SNOWFLAKE_LEARNING_DB
SNOWFLAKE_SAMPLE_DATA
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COMPUTE_WH (X-Small)
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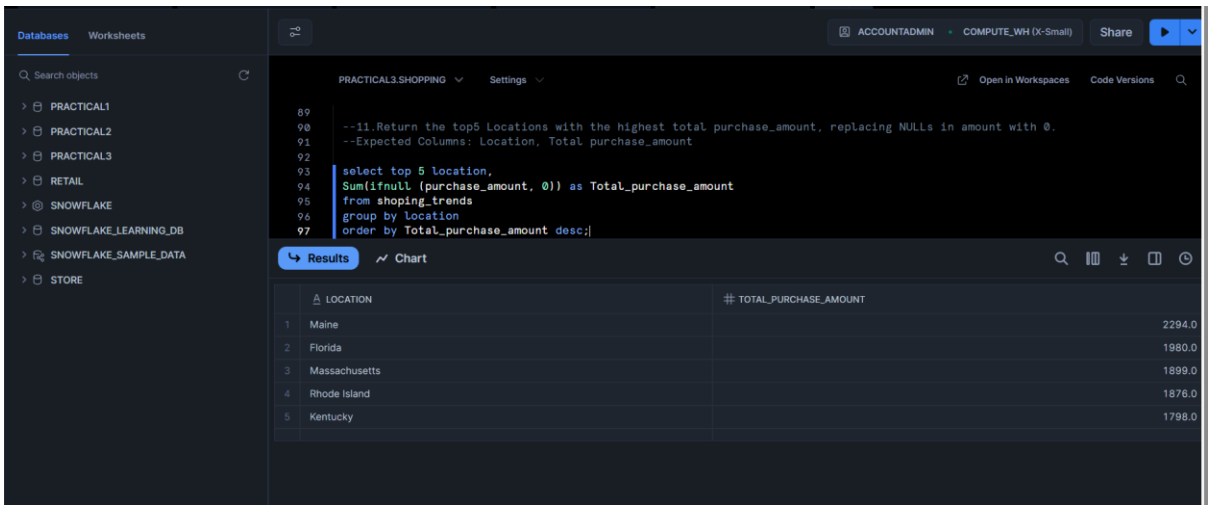
PRACTICAL3.SHOPPING
Settings
Open in Workspaces
Code Versions
--10.Display a list of all Category values with the number of times each was purchased,
--excluding rows where Categoryis NULL.
--Expected Columns: Category, Total Purchases
select category,
count(*) total_purchases
from shoping_trends
where category is not null
group by category;
Results
Chart
CATEGORY
TOTAL_PURCHASES
1 Outerwear 60
2 Footwear 70
3 Clothing 59
4 Accessories 78

Q.11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PRACTICAL2
PRACTICAL3
RETAIL
SNOWFLAKE
SNOWFLAKE_LEARNING_DB
SNOWFLAKE_SAMPLE_DATA
STORE
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COMPUTE_WH (X-Small)
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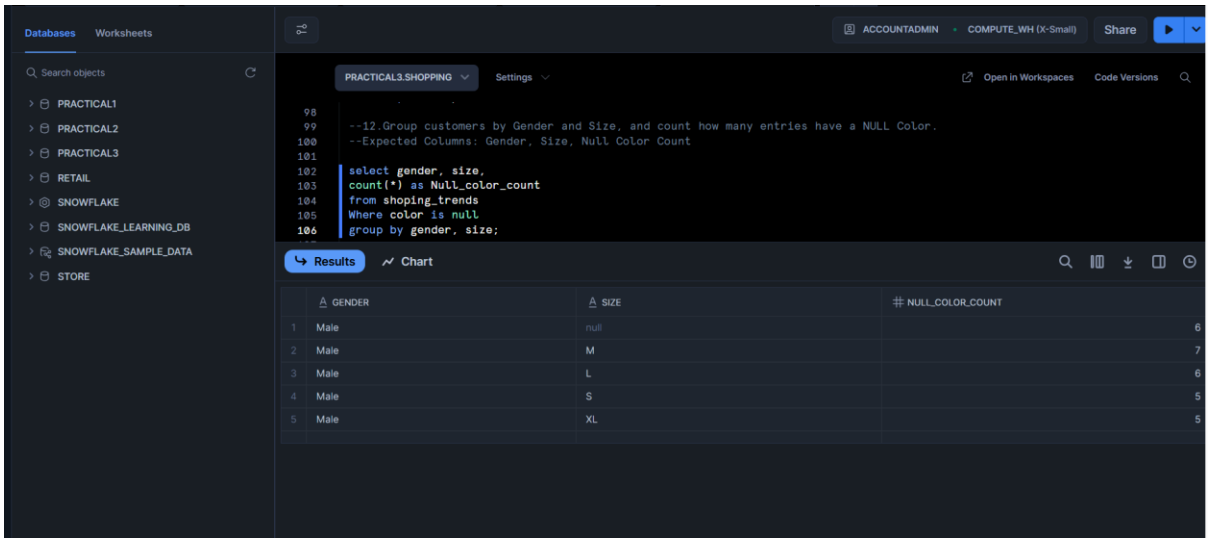
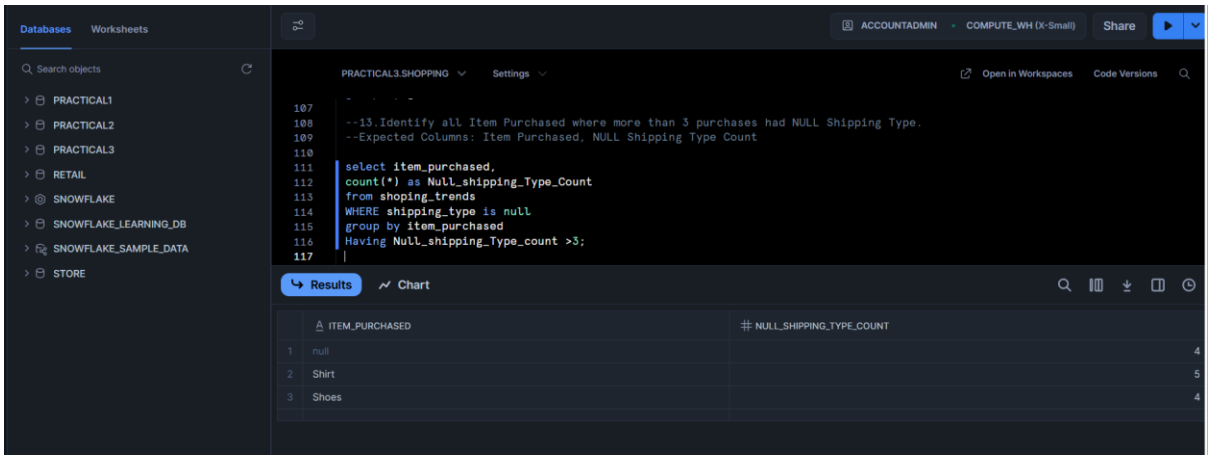
PRACTICAL3.SHOPPING
Settings
Open in Workspaces
Code Versions
--11.Return the top5 Locations with the highest total purchase_amount, replacing NULLs in amount with 0.
--Expected Columns: Location, Total purchase_amount
select top 5 location,
Sum(ifnull (purchase_amount, 0)) as Total_purchase_amount
from shoping_trends
group by location
order by Total_purchase_amount desc;
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

Q.12


Databases
Worksheets
Search objects
PRACTICAL1
PRACTICAL2
PRACTICAL3
RETAIL
SNOWFLAKE
SNOWFLAKE_LEARNING_DB
SNOWFLAKE_SAMPLE_DATA
STORE
ACCOUNTADMIN
COMPUTE_WH (X-Small)
Share
PRACTICAL3.SHOPPING
Settings
Open in Workspaces
Code Versions
98
99 --12.Group customers by Gender and Size, and count how many entries have a NULL Color.
100 --Expected Columns: Gender, Size, Null Color Count
101
102 select gender, size,
103 count(*) as Null_color_count
104 from shoping_trends
105 Where color is null
106 group by gender, size;
Results
Chart
GENDER
SIZE
NULL_COLOR_COUNT
1 Male null 6
2 Male M 7
3 Male L 6
4 Male S 5
5 Male XL 5

Q13.


Databases
Worksheets
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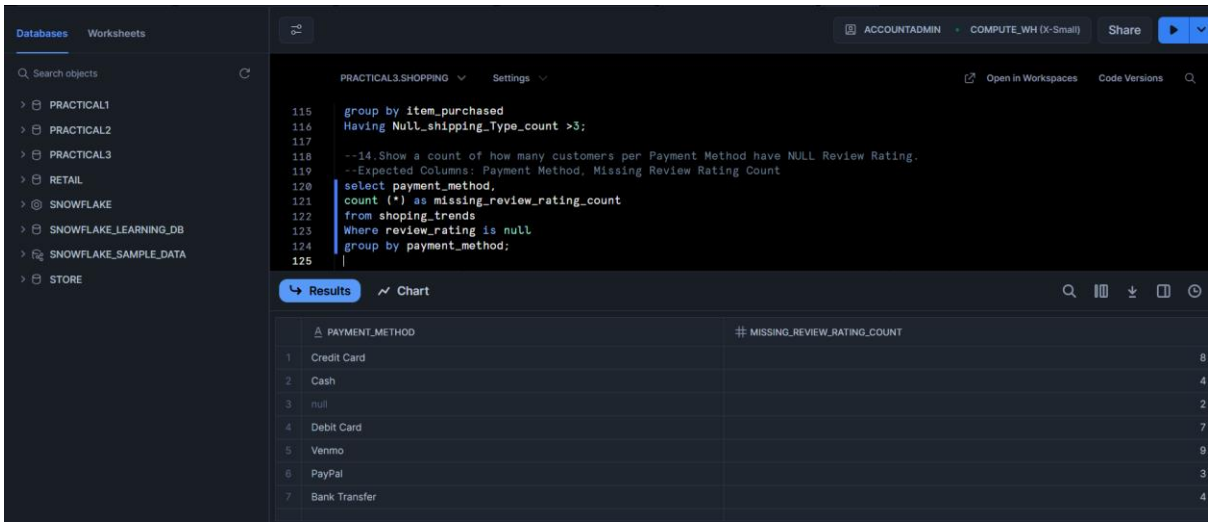
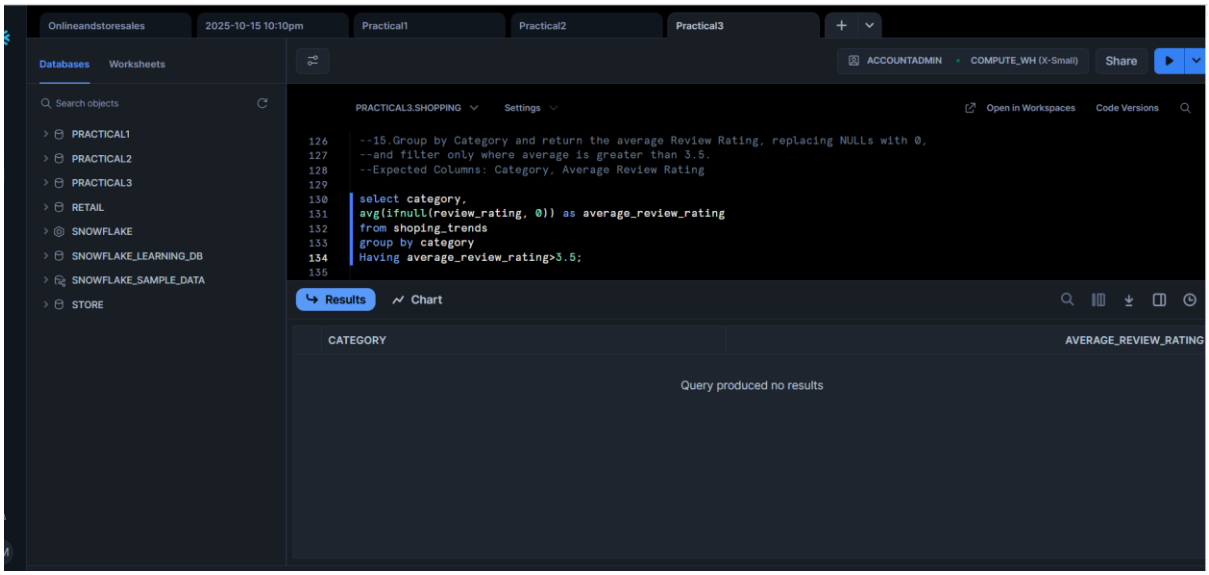
PRACTICAL1
PRACTICAL2
PRACTICAL3
RETAIL
SNOWFLAKE
SNOWFLAKE_LEARNING_DB
SNOWFLAKE_SAMPLE_DATA
STORE
ACCOUNTADMIN
COMPUTE_WH (X-Small)
Share
PRACTICAL3.SHOPPING
Settings
Open in Workspaces
Code Versions
107
108 --13.Identify all Item Purchased where more than 3 purchases had NULL Shipping Type.
109 --Expected Columns: Item Purchased, NULL Shipping Type Count
110
111 select item_purchased,
112 count(*) as Null_shipping_Type_Count
113 from shoping_trends
114 WHERE shipping_type is null
115 group by item_purchased
116 Having Null_shipping_Type_count >3;
117
Results
Chart
ITEM_PURCHASED
NULL_SHIPPING_TYPE_COUNT
1 null 4
2 Shirt 5
3 Shoes 4

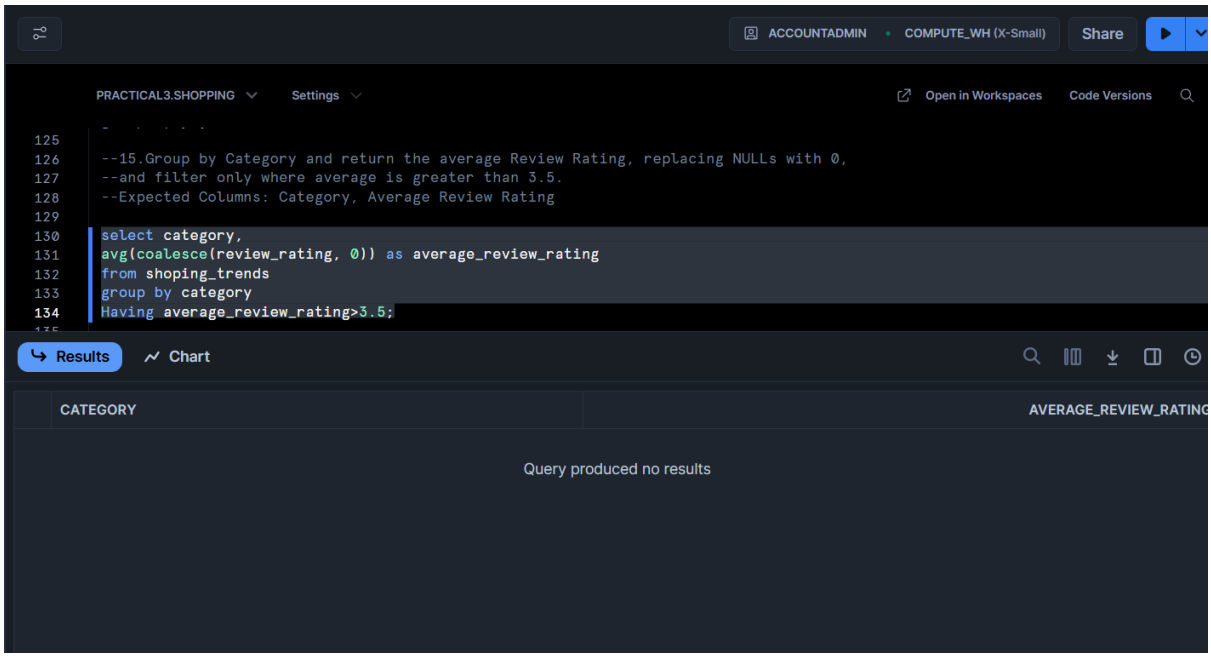
Q.14


Databases
Worksheets
Search objects
PRACTICAL1
PRACTICAL2
PRACTICAL3
RETAIL
SNOWFLAKE
SNOWFLAKE_LEARNING_DB
SNOWFLAKE_SAMPLE_DATA
STORE
ACCOUNTADMIN
COMPUTE_WH (X-Small)
Share
PRACTICAL3.SHOPPING
Settings
Open in Workspaces
Code Versions
115 group by item_purchased
116 Having Null_shipping_Type_count >3;
117
118 --14.Show a count of how many customers per Payment Method have NULL Review Rating.
119 --Expected Columns: Payment Method, Missing Review Rating Count
120 select payment_method,
121 count (*) as missing_review_rating_count
122 from shoping_trends
123 Where review_rating is null
124 group by payment_method;
125
Results
Chart
PAYMENT_METHOD
MISSING_REVIEW_RATING_COUNT
1 Credit Card 8
2 Cash 4
3 null 2
4 Debit Card 7
5 Venmo 9
6 PayPal 3
7 Bank Transfer 4

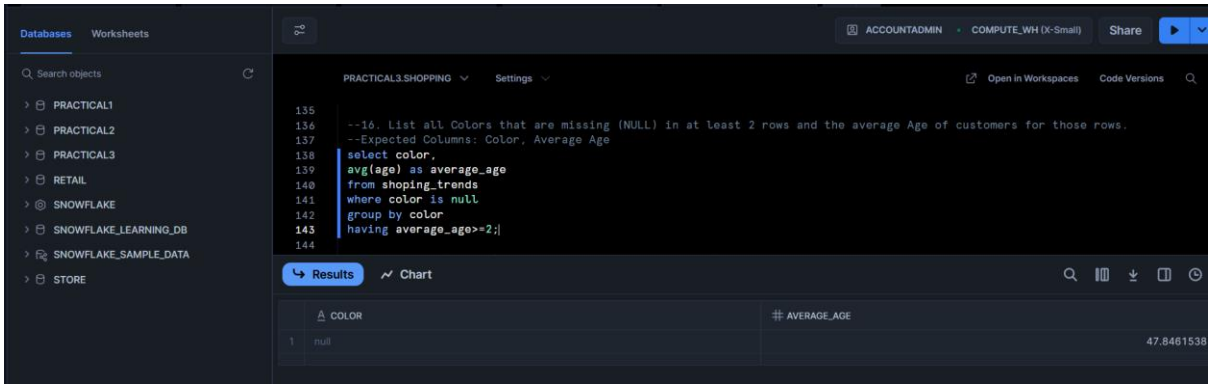
Q.15 Using ifnull



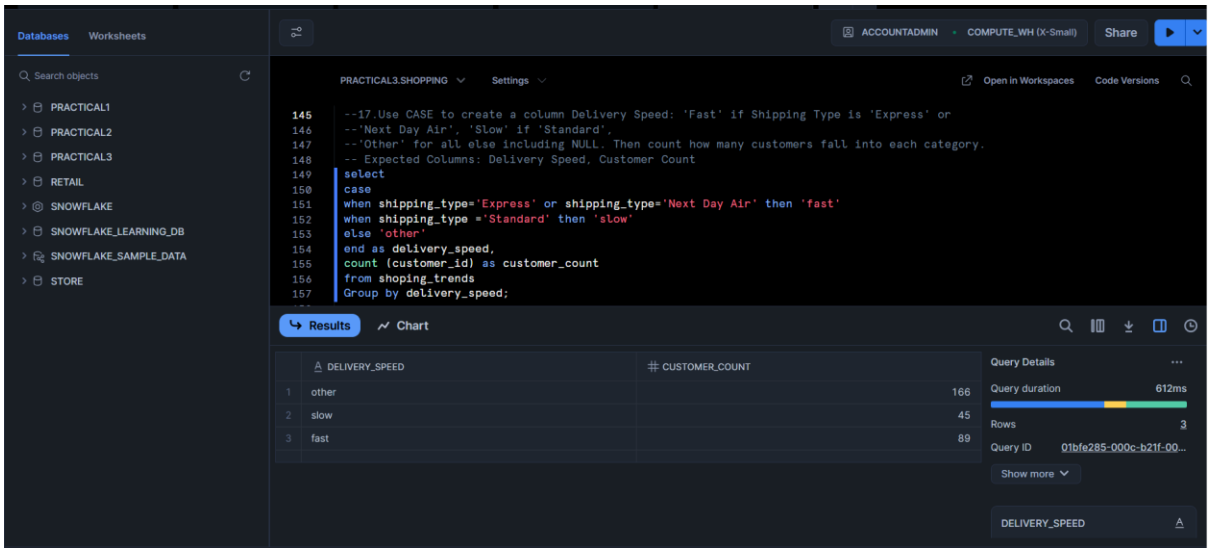
Q.15 Using Coalesce



Q.16



Q.17


Databases
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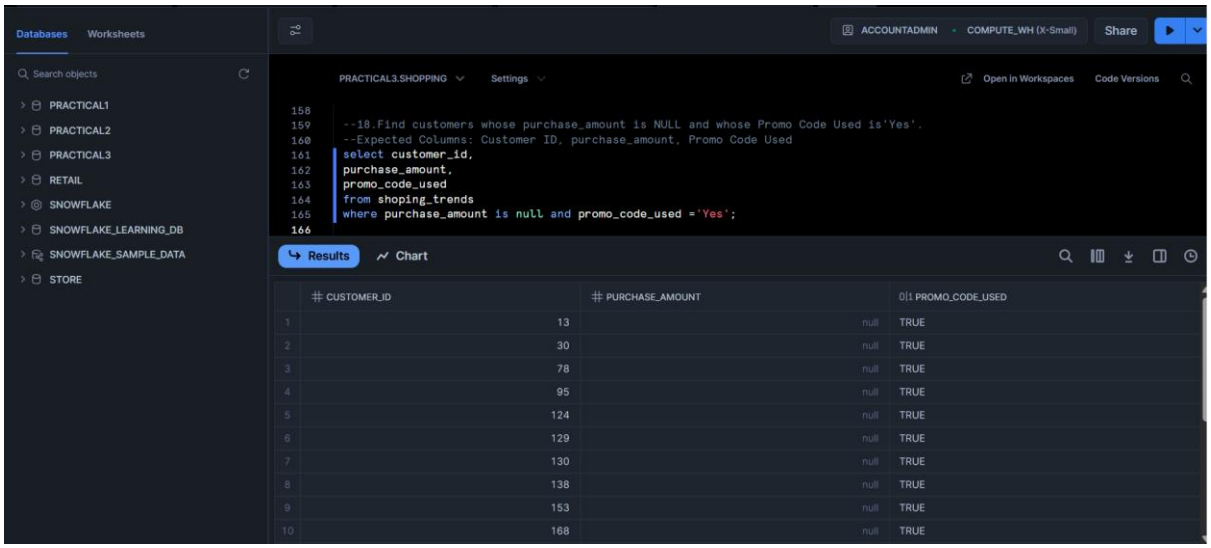
SNOWFLAKE_SAMPLE_DATA
STORE
ACCOUNTADMIN
COMPUTE_WH (X-Small)
Share
PRACTICAL3.SHOPPING
Settings
Open in Workspaces
Code Versions
--17.Use CASE to create a column Delivery Speed: 'Fast' if Shipping Type is 'Express' or
--'Next Day Air', 'Slow' if 'Standard',
--'Other' for all else including NULL. Then count how many customers fall into each category.
-- Expected Columns: Delivery Speed, Customer Count
select
case
when shipping_type='Express' or shipping_type='Next Day Air' then 'fast'
when shipping_type ='Standard' then 'slow'
else 'other'
end as delivery_speed,
count (customer_id) as customer_count
from shoping_trends
Group by delivery_speed;
Results
Chart
DELIVERY_SPEED
CUSTOMER_COUNT
1 other 166
2 slow 45
3 fast 89
Query Details
Query duration 612ms
Rows 3
Query ID 01bfe285-000c-b21f-00...
Show more
DELIVERY_SPEED

Q.18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SNOWFLAKE_LEARNING_DB
SNOWFLAKE_SAMPLE_DATA
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COMPUTE_WH (X-Small)
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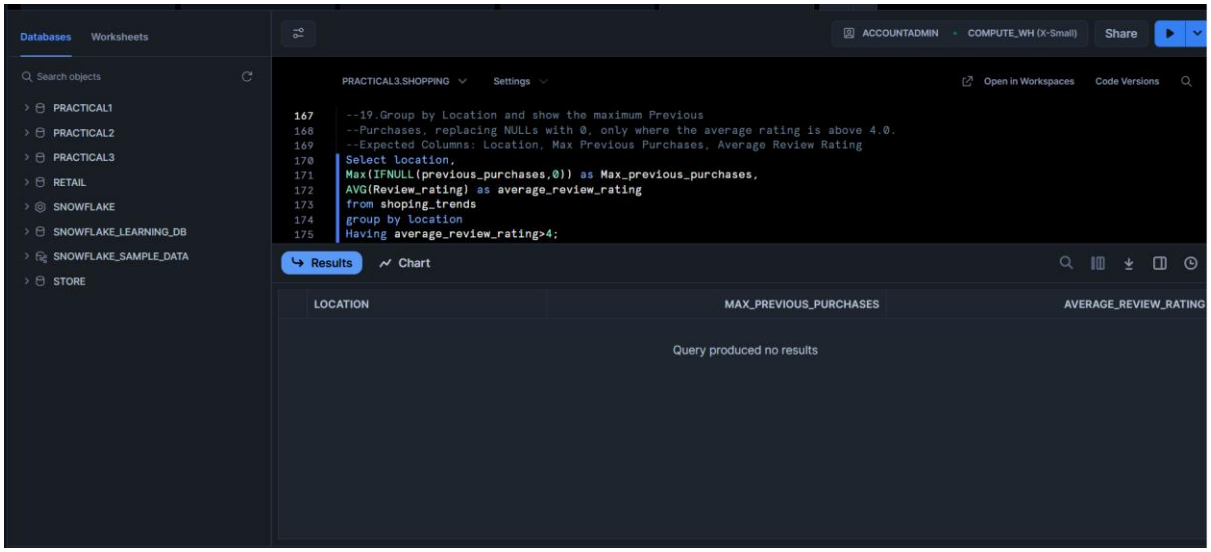
PRACTICAL3.SHOPPING
Settings
Open in Workspaces
Code Versions
--18.Find customers whose purchase_amount is NULL and whose Promo Code Used is'Yes'.
--Expected Columns: Customer ID, purchase_amount, Promo Code Used
select customer_id,
purchase_amount,
promo_code_used
from shoping_trends
where purchase_amount 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
8 138 null TRUE
9 153 null TRUE
10 168 null TRUE

Q.19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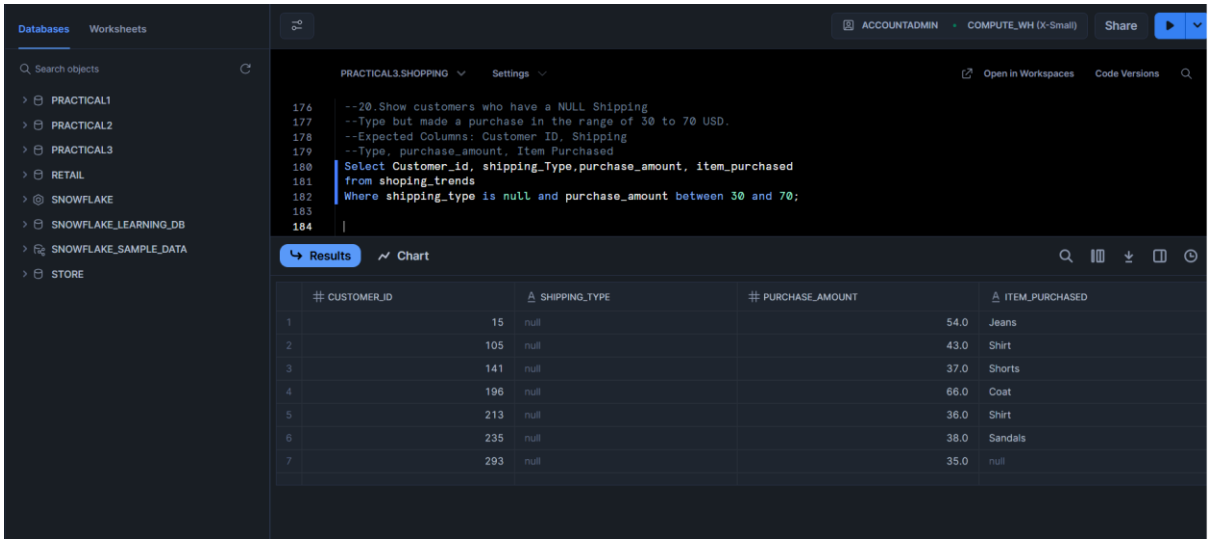
PRACTICAL3
RETAIL
SNOWFLAKE
SNOWFLAKE_LEARNING_DB
SNOWFLAKE_SAMPLE_DATA
STORE
ACCOUNTADMIN
COMPUTE_WH (X-Small)
Share
PRACTICAL3.SHOPPING
Settings
Open in Workspaces
Code Versions
167 --19.Group by Location and show the maximum Previous
168 --Purchases, replacing NULLs with 0, only where the average rating is above 4.0.
169 --Expected Columns: Location, Max Previous Purchases, Average Review Rating
170 Select location,
171 Max(IFNULL(previous_purchases,0)) as Max_previous_purchases,
172 AVG(Review_rating) as average_review_rating
173 from shoping_trends
174 group by location
175 Having average_review_rating>4;
Results
Chart
LOCATION
MAX_PREVIOUS_PURCHASES
AVERAGE_REVIEW_RATING
Query produced no results

Q.20


Databases
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PRACTICAL2
PRACTICAL3
RETAIL
SNOWFLAKE
SNOWFLAKE_LEARNING_DB
SNOWFLAKE_SAMPLE_DATA
STORE
ACCOUNTADMIN
COMPUTE_WH (X-Small)
Share
PRACTICAL3.SHOPPING
Settings
Open in Workspaces
Code Versions
176 --20.Show customers who have a NULL Shipping
177 --Type but made a purchase in the range of 30 to 70 USD.
178 --Expected Columns: Customer ID, Shipping
179 --Type, purchase_amount, Item Purchased
180 Select Customer_id, shipping_Type,purchase_amount, item_purchased
181 from shoping_trends
182 Where shipping_type is null and purchase_amount between 30 and 70;
183
184
Results
Chart
CUSTOMER_ID
SHIPPING_TYPE
PURCHASE_AMOUNT
ITEM_PURCHASED
1 15 null 54.0 Jeans
2 105 null 43.0 Shirt
3 141 null 37.0 Shorts
4 196 null 66.0 Coat
5 213 null 36.0 Shirt
6 235 null 38.0 Sandals
7 293 null 35.0 null