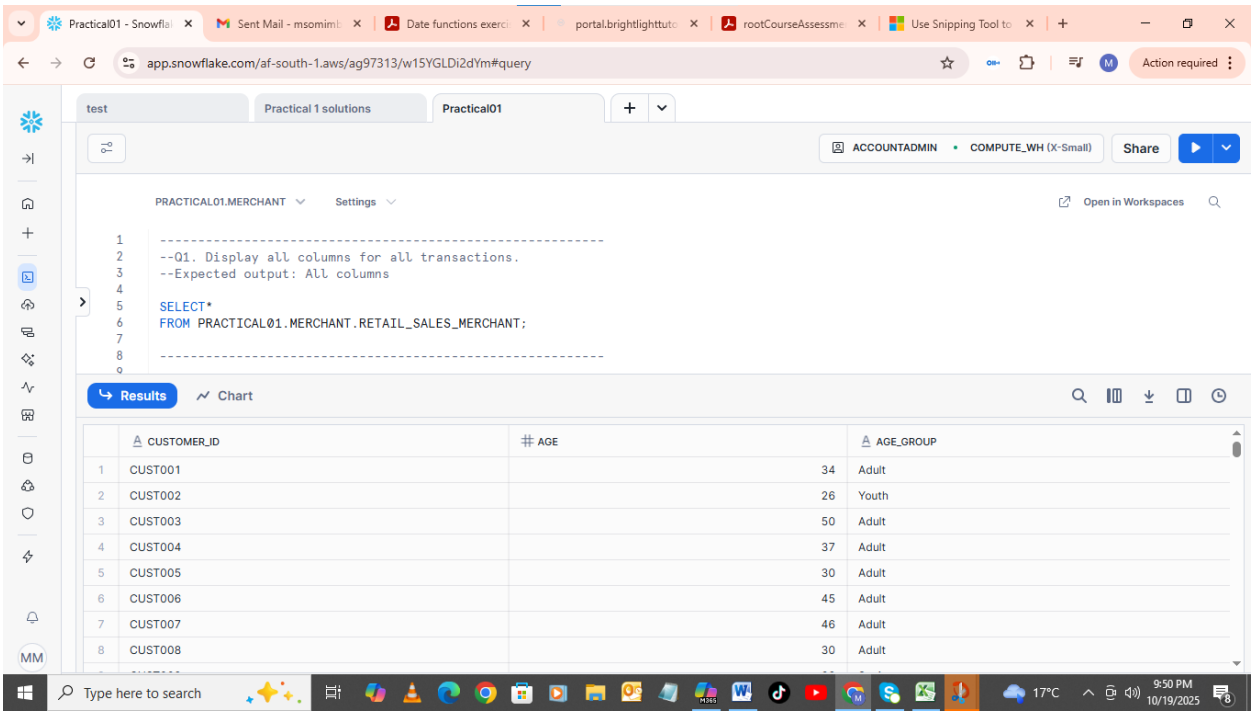
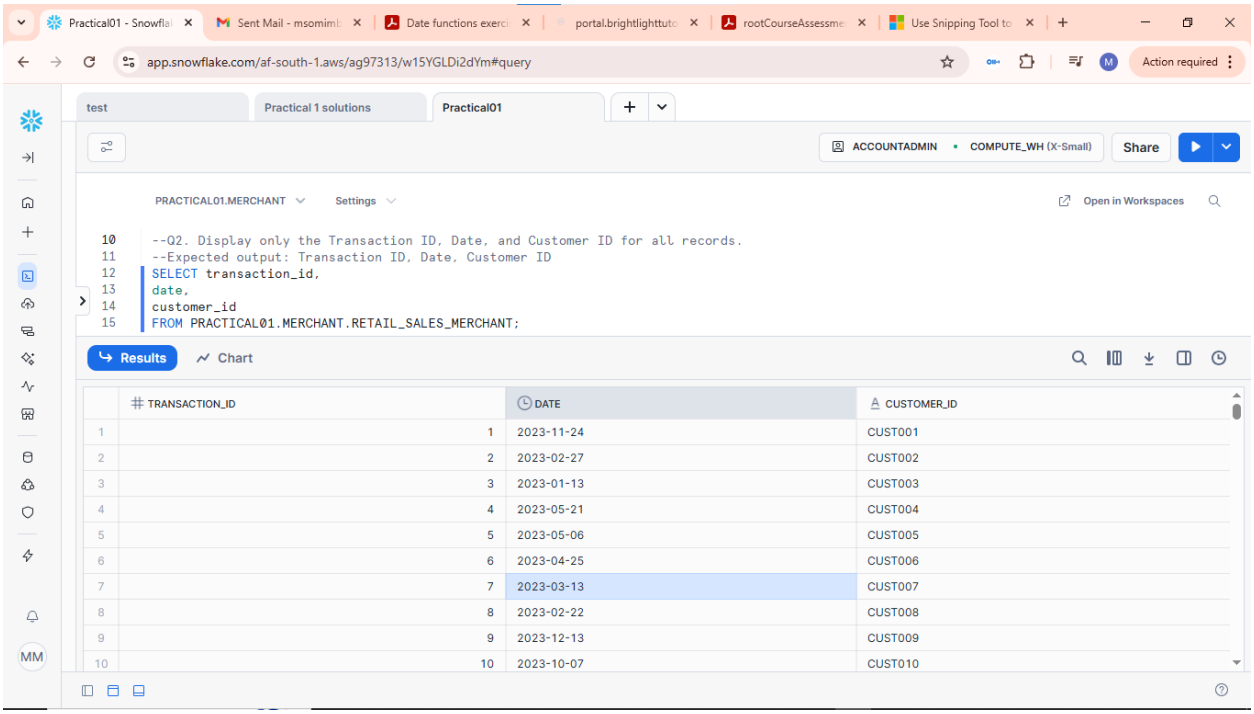
Mbali Zondi

Practical 1: Basic SQL Snytax

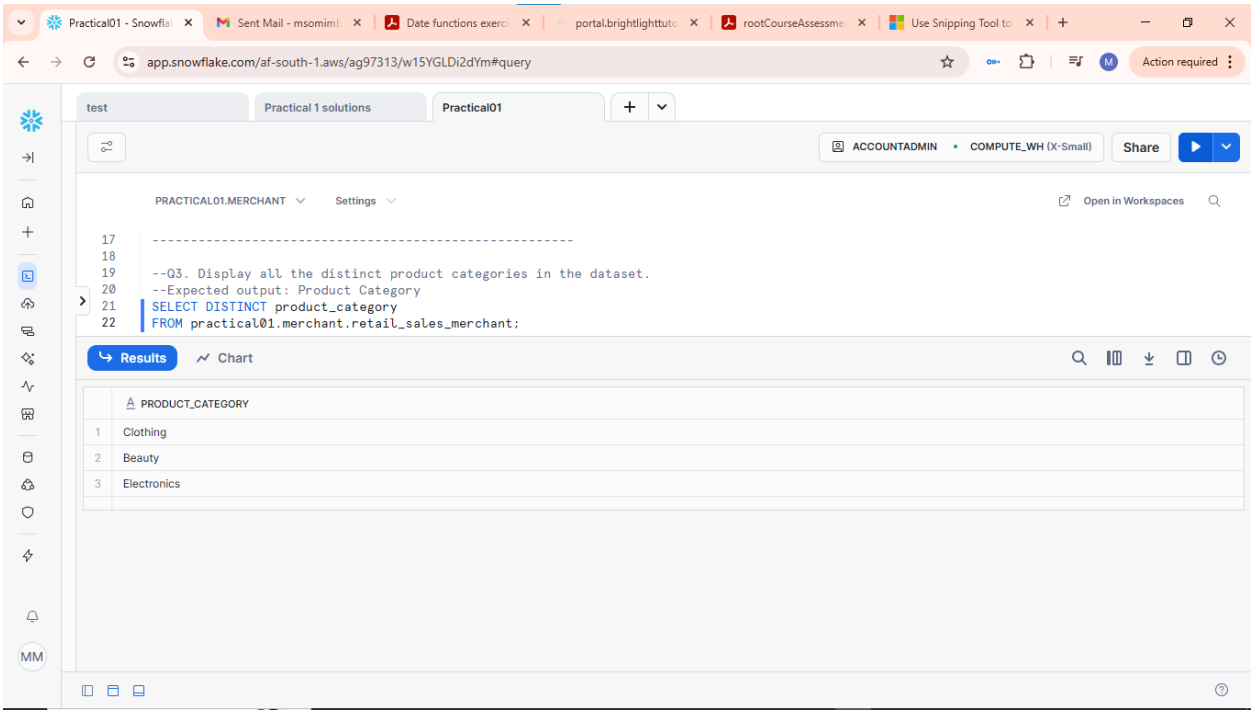
Question 1:



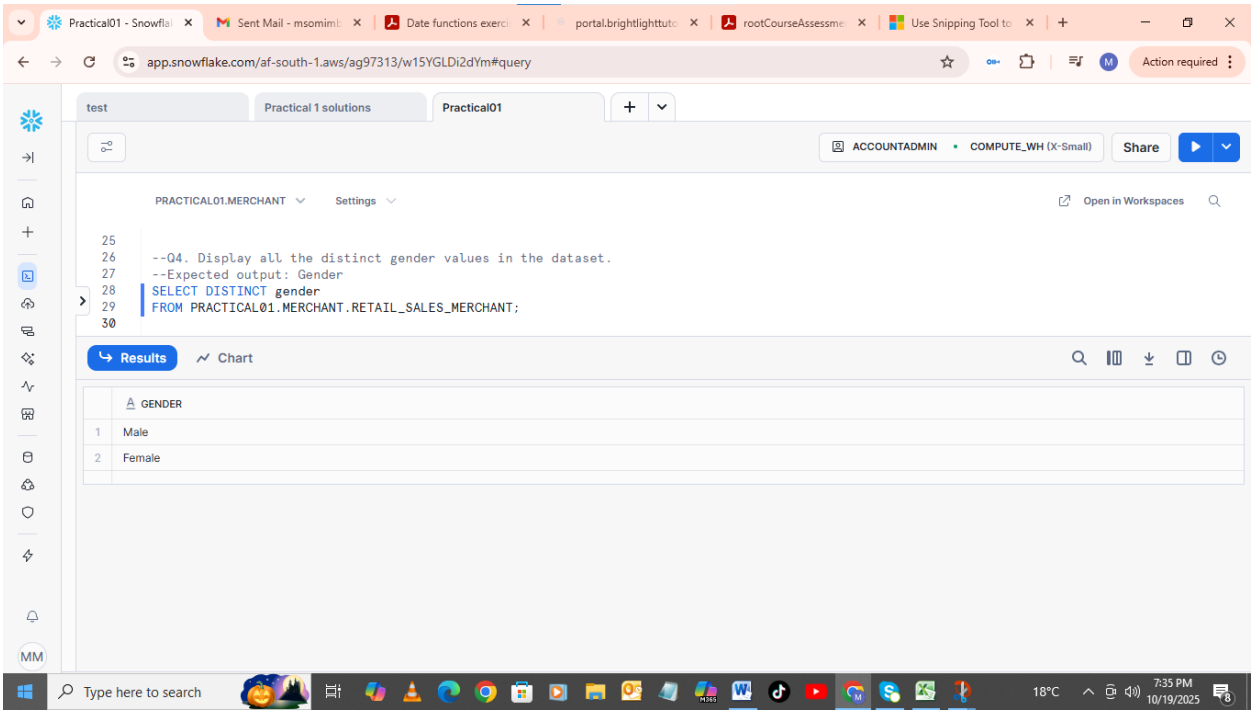
Question 2:



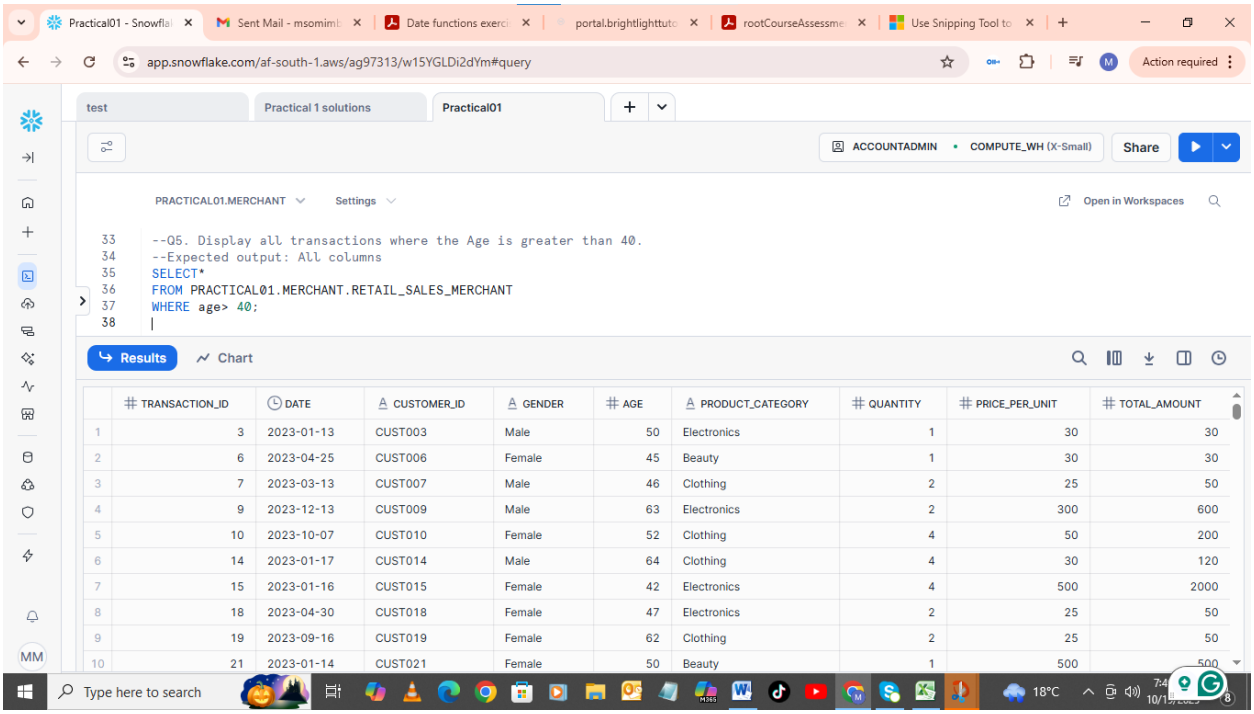
Question 3:



Question 4:



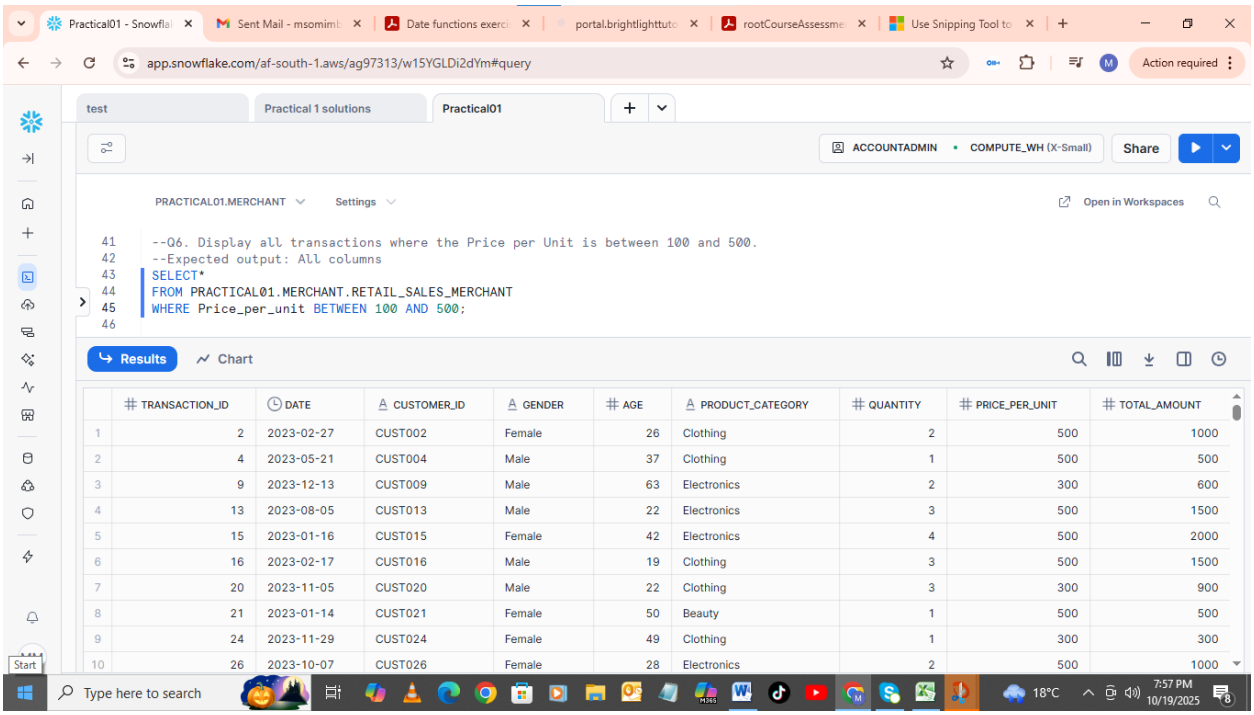
Question 5:



```
--Q5. Display all transactions where the Age is greater than 40.
--Expected output: All columns
SELECT*
FROM PRACTICAL01.MERCHANT.RETAIL_SALES_MERCHANT
WHERE age> 40;
```

	TRANSACTION_ID	DATE	CUSTOMER_ID	GENDER	AGE	PRODUCT_CATEGORY	QUANTITY	PRICE_PER_UNIT	TOTAL_AMOUNT
1	3	2023-01-13	CUST003	Male	50	Electronics	1	30	30
2	6	2023-04-25	CUST006	Female	45	Beauty	1	30	30
3	7	2023-03-13	CUST007	Male	46	Clothing	2	25	50
4	9	2023-12-13	CUST009	Male	63	Electronics	2	300	600
5	10	2023-10-07	CUST010	Female	52	Clothing	4	50	200
6	14	2023-01-17	CUST014	Male	64	Clothing	4	30	120
7	15	2023-01-16	CUST015	Female	42	Electronics	4	500	2000
8	18	2023-04-30	CUST018	Female	47	Electronics	2	25	50
9	19	2023-09-16	CUST019	Female	62	Clothing	2	25	50
10	21	2023-01-14	CUST021	Female	50	Beauty	1	500	500

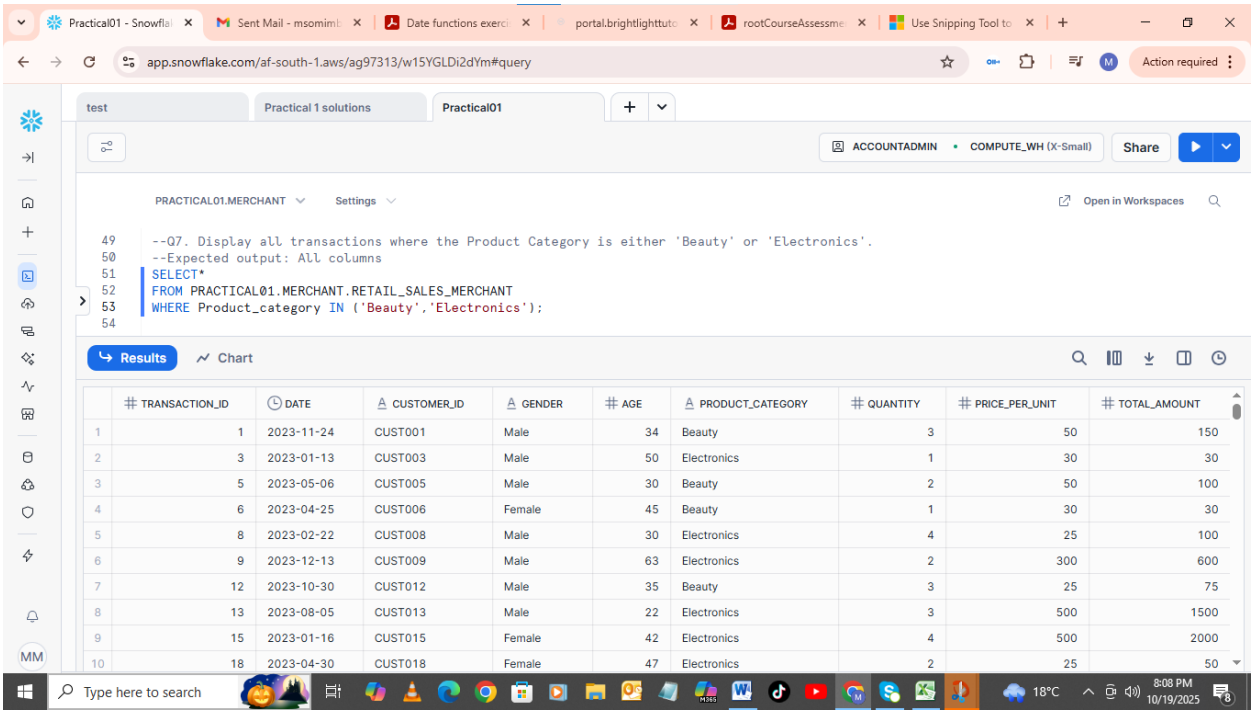
Question 6:



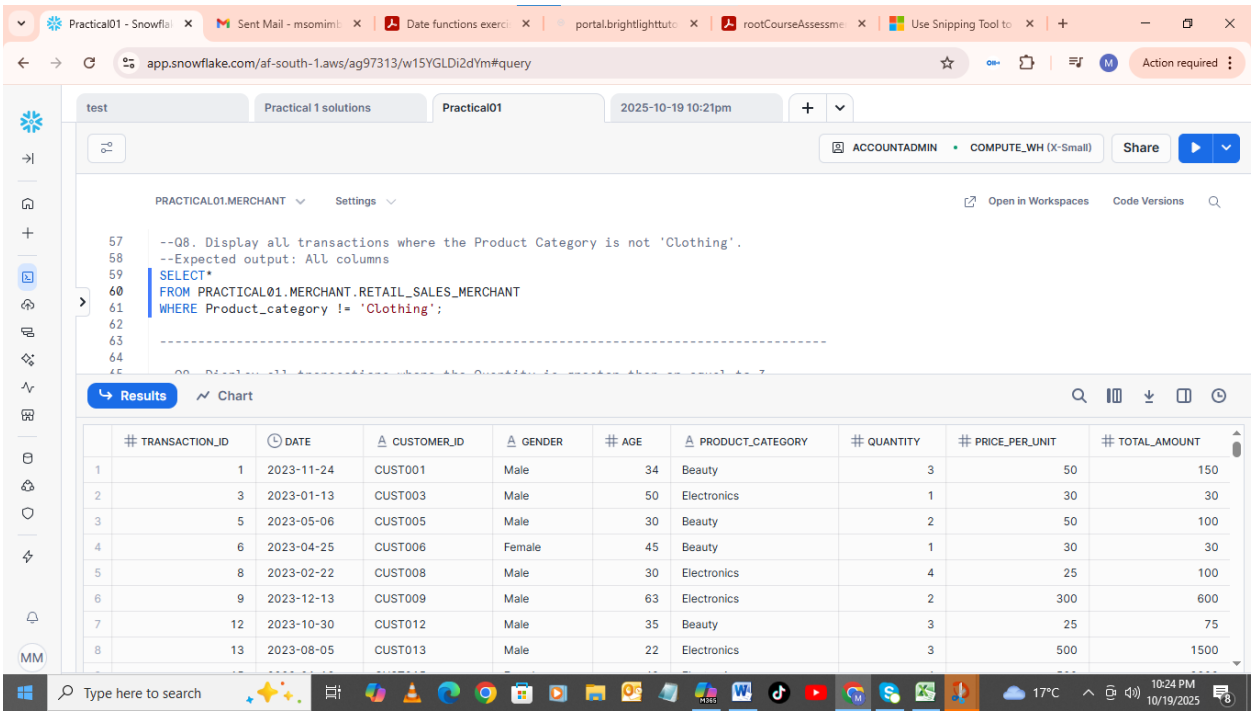
```
--Q6. Display all transactions where the Price per Unit is between 100 and 500.
--Expected output: All columns
SELECT*
FROM PRACTICAL01.MERCHANT.RETAIL_SALES_MERCHANT
WHERE Price_per_unit BETWEEN 100 AND 500;
```

	TRANSACTION_ID	DATE	CUSTOMER_ID	GENDER	AGE	PRODUCT_CATEGORY	QUANTITY	PRICE_PER_UNIT	TOTAL_AMOUNT
1	2	2023-02-27	CUST002	Female	26	Clothing	2	500	1000
2	4	2023-05-21	CUST004	Male	37	Clothing	1	500	500
3	9	2023-12-13	CUST009	Male	63	Electronics	2	300	600
4	13	2023-08-05	CUST013	Male	22	Electronics	3	500	1500
5	15	2023-01-16	CUST015	Female	42	Electronics	4	500	2000
6	16	2023-02-17	CUST016	Male	19	Clothing	3	500	1500
7	20	2023-11-05	CUST020	Male	22	Clothing	3	300	900
8	21	2023-01-14	CUST021	Female	50	Beauty	1	500	500
9	24	2023-11-29	CUST024	Female	49	Clothing	1	300	300
10	26	2023-10-07	CUST026	Female	28	Electronics	2	500	1000

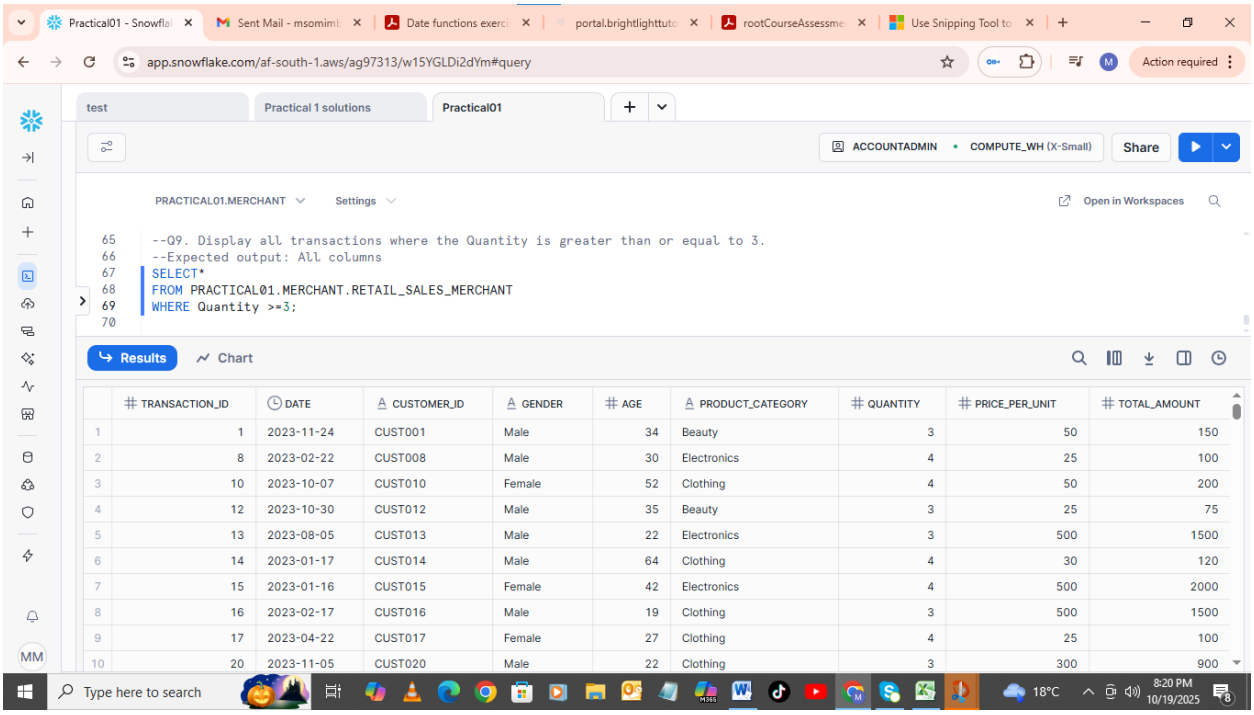
Question 7:



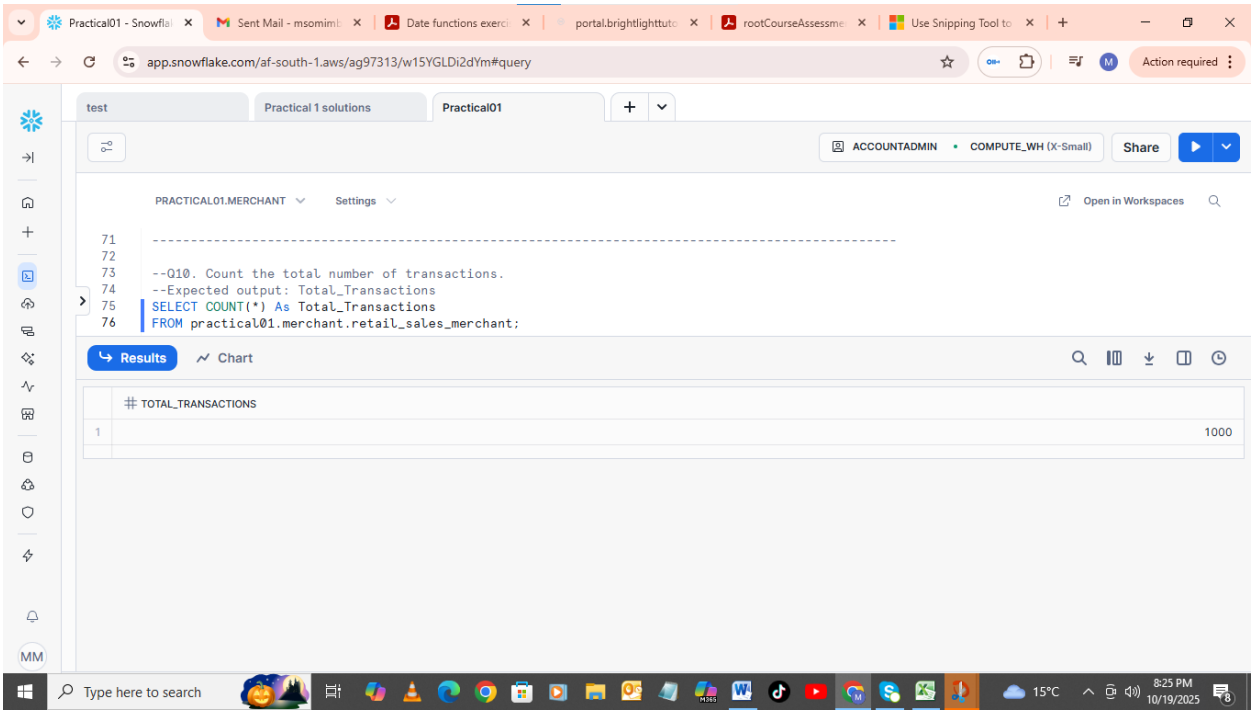
Question 8:



Question 9:


app.snowflake.com/af-south-1.aws/ag97313/w15YGLDi2dYm#query
test
Practical 1 solutions
Practical01
ACCOUNTADMIN • COMPUTE_WH (X-Small)
Share
PRACTICAL01.MERCHANT
Settings
Open in Workspaces
--Q9. Display all transactions where the Quantity is greater than or equal to 3.
--Expected output: All columns
SELECT*
FROM PRACTICAL01.MERCHANT.RETAIL_SALES_MERCHANT
WHERE Quantity >=3;
Results
Chart
TRANSACTION_ID DATE CUSTOMER_ID GENDER AGE PRODUCT_CATEGORY QUANTITY PRICE_PER_UNIT TOTAL_AMOUNT
1 1 2023-11-24 CUST001 Male 34 Beauty 3 50 150
2 8 2023-02-22 CUST008 Male 30 Electronics 4 25 100
3 10 2023-10-07 CUST010 Female 52 Clothing 4 50 200
4 12 2023-10-30 CUST012 Male 35 Beauty 3 25 75
5 13 2023-08-05 CUST013 Male 22 Electronics 3 500 1500
6 14 2023-01-17 CUST014 Male 64 Clothing 4 30 120
7 15 2023-01-16 CUST015 Female 42 Electronics 4 500 2000
8 16 2023-02-17 CUST016 Male 19 Clothing 3 500 1500
9 17 2023-04-22 CUST017 Female 27 Clothing 4 25 100
10 20 2023-11-05 CUST020 Male 22 Clothing 3 300 900
Type here to search
18°C
8:20 PM
10/19/2025

Question 10:


app.snowflake.com/af-south-1.aws/ag97313/w15YGLDi2dYm#query
test
Practical 1 solutions
Practical01
ACCOUNTADMIN • COMPUTE_WH (X-Small)
Share
PRACTICAL01.MERCHANT
Settings
Open in Workspaces
--Q10. Count the total number of transactions.
--Expected output: Total_Transactions
SELECT COUNT(*) As Total_Transactions
FROM practical01.merchant.retail_sales_merchant;
Results
Chart
TOTAL_TRANSACTIONS
1 1000
Type here to search
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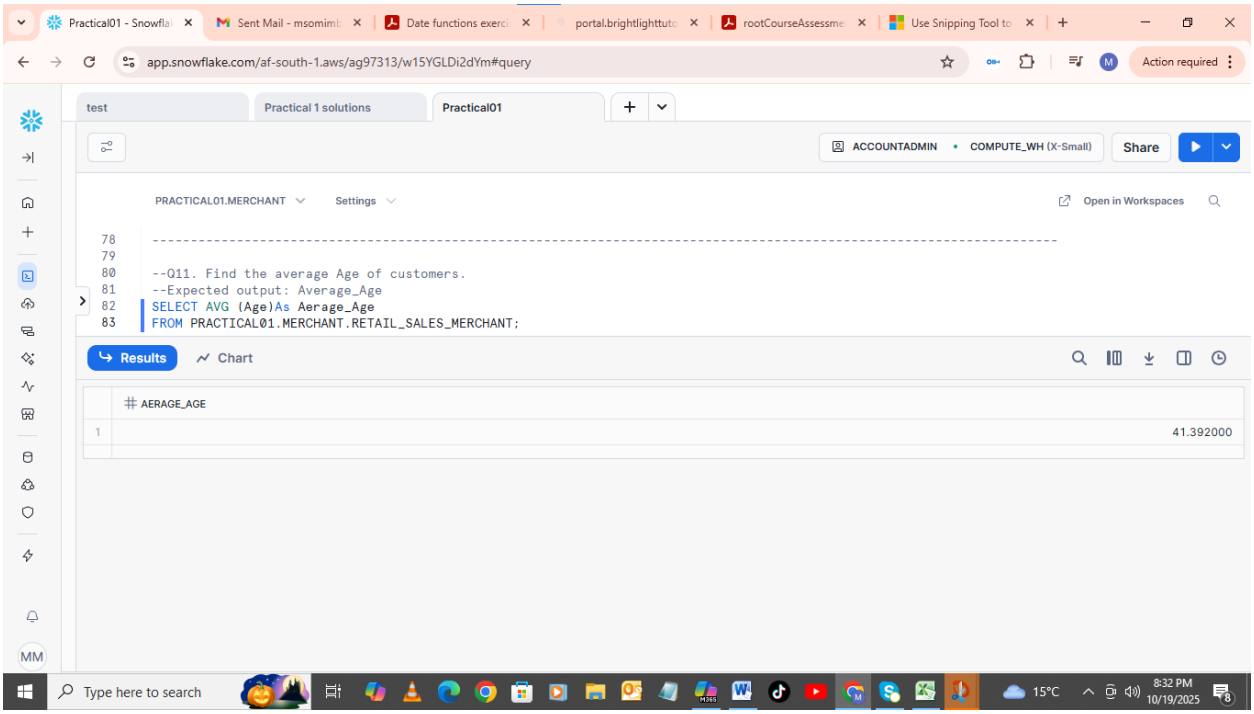
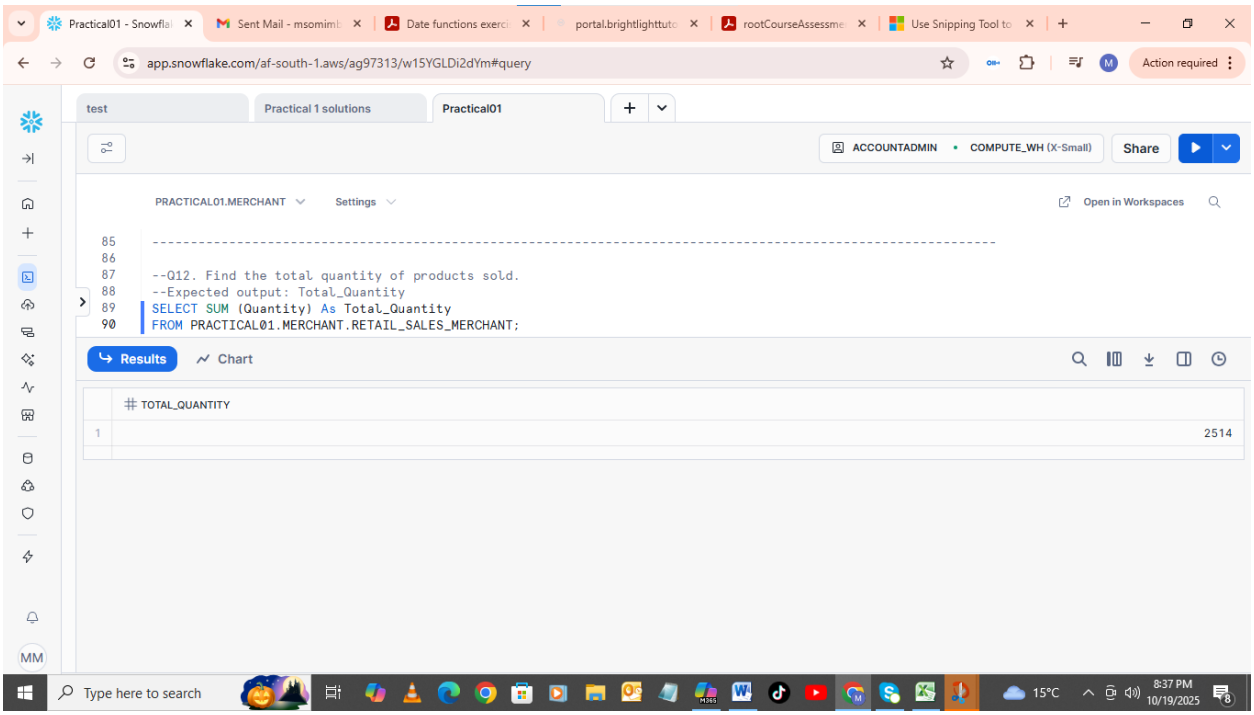
8:25 PM
10/19/2025

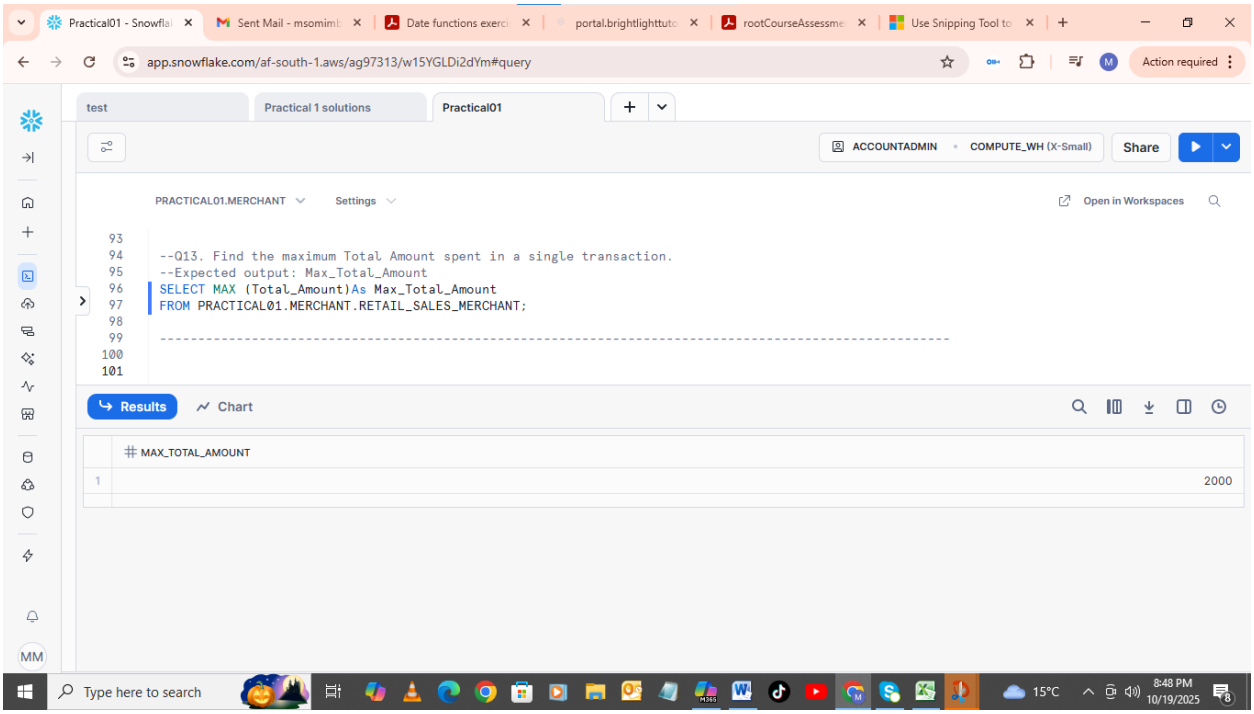
Question 11:



Question 12:



Question 13:



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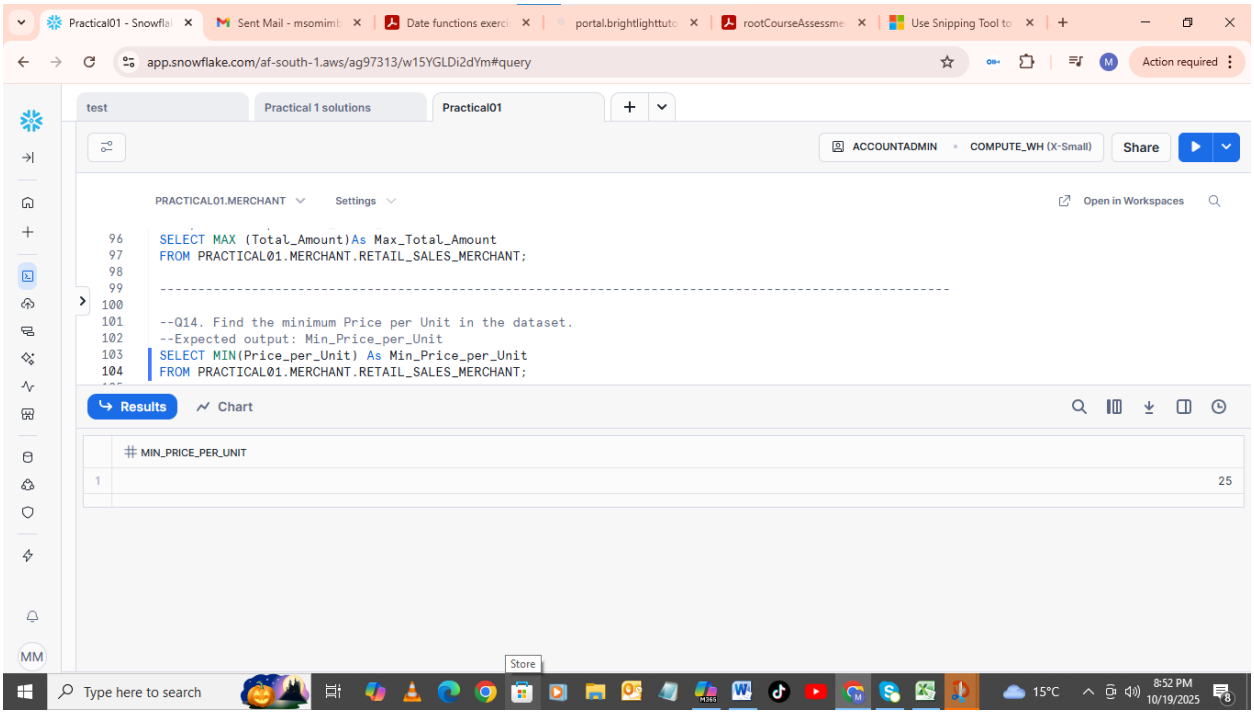

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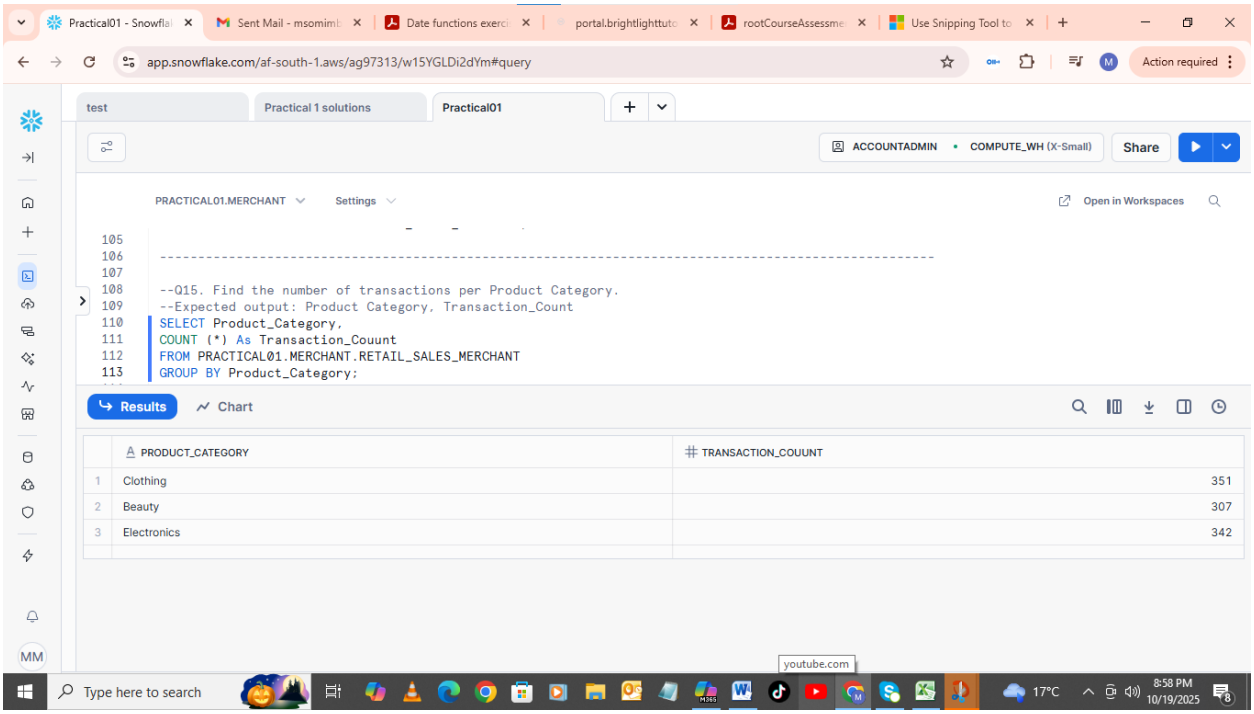

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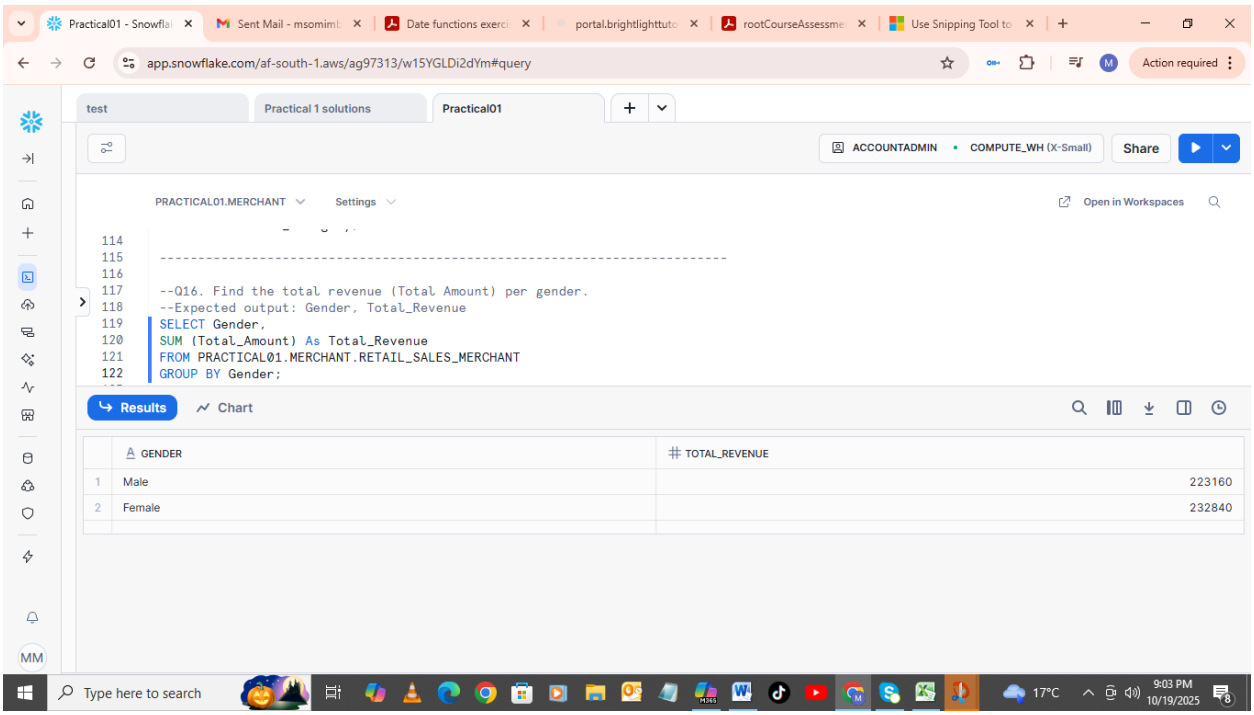
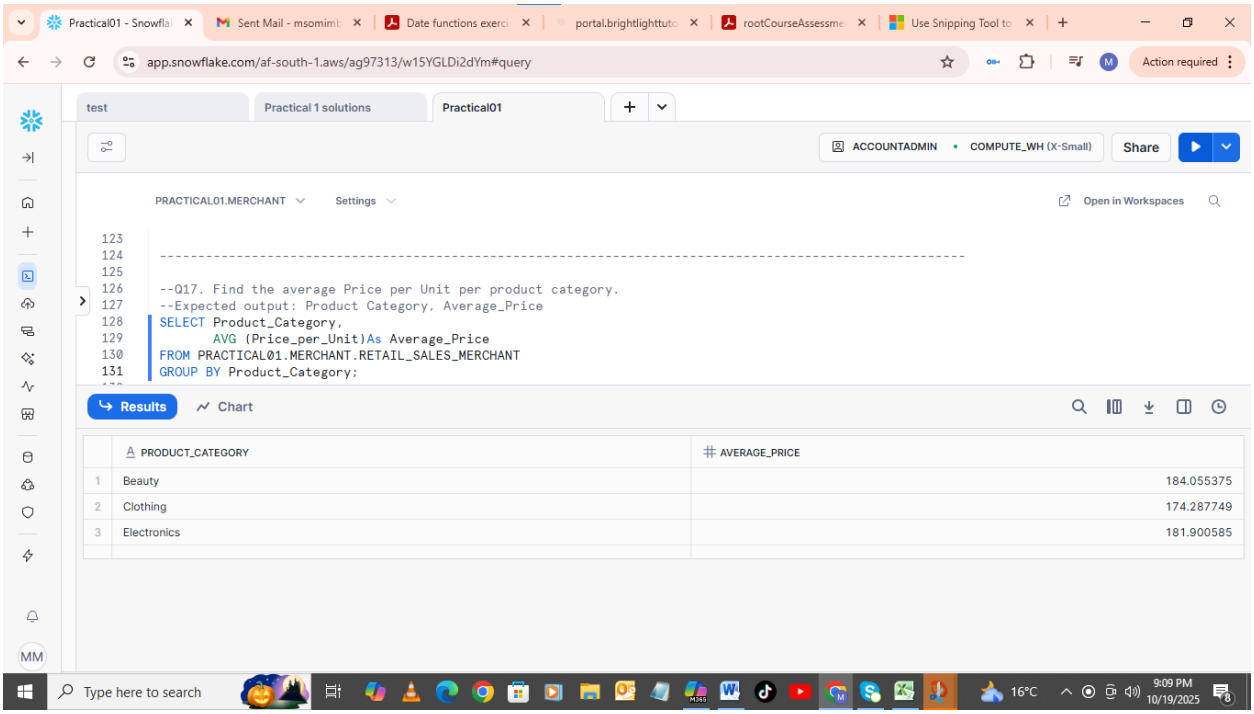


Question 17:



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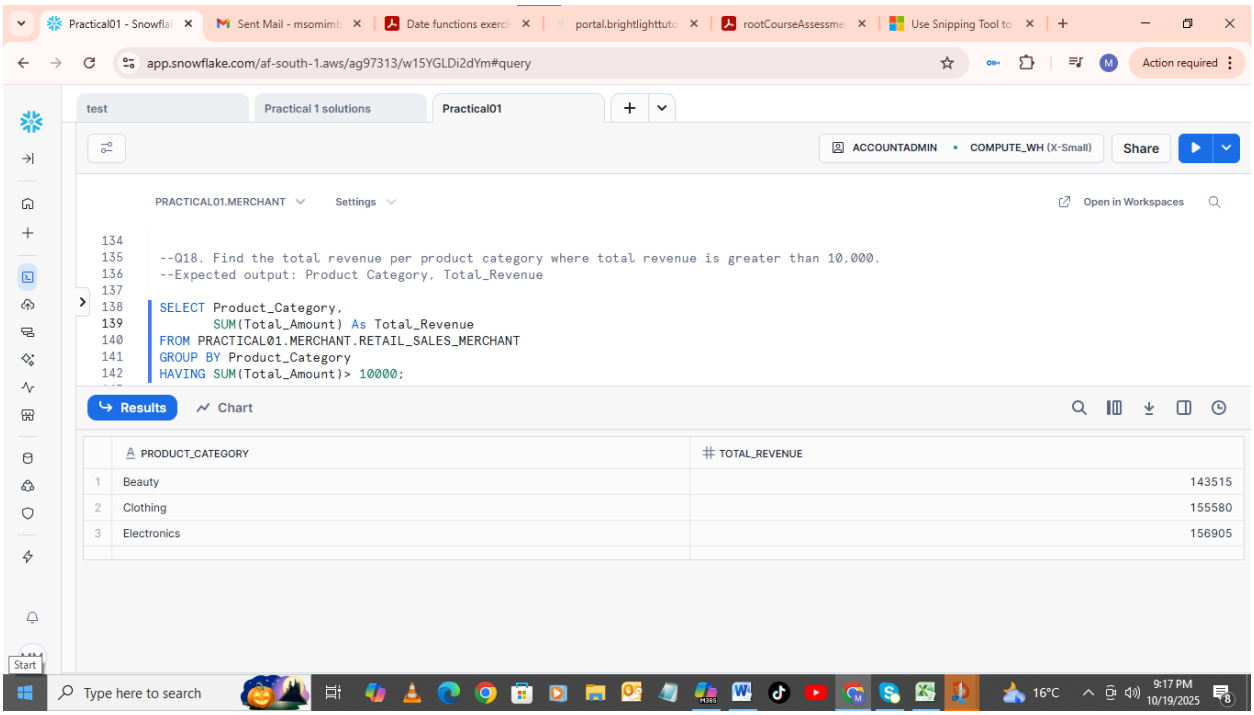

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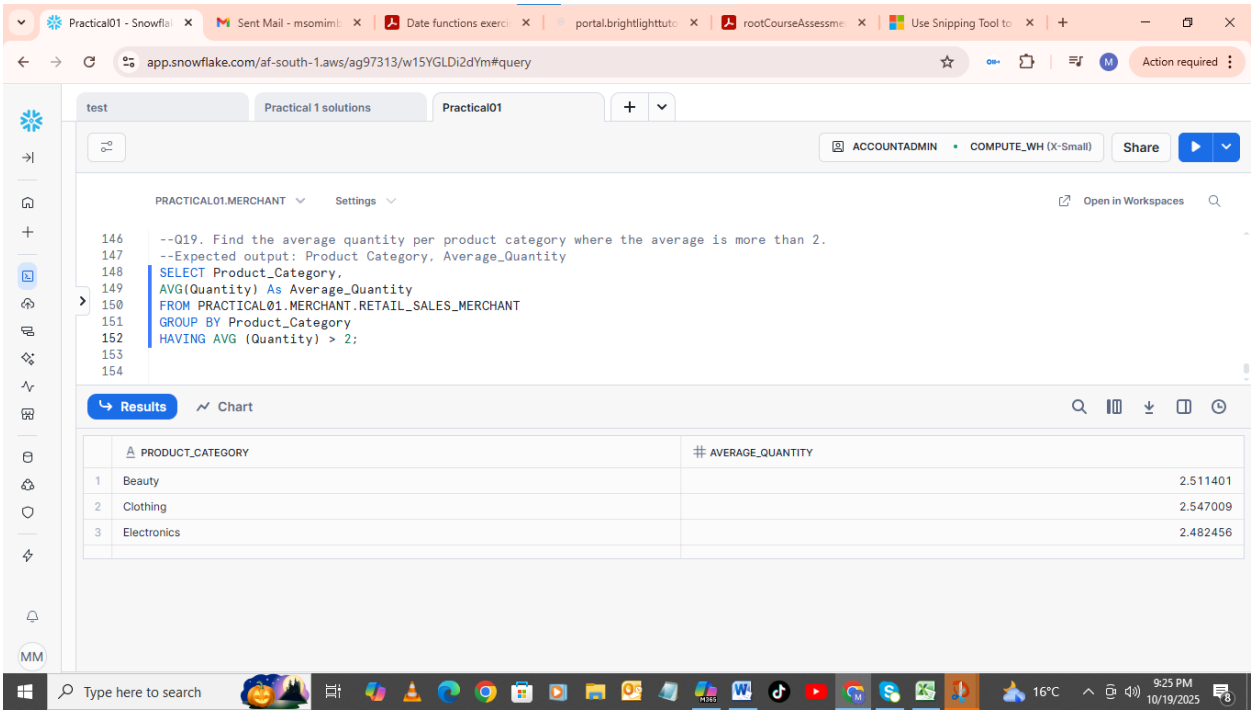
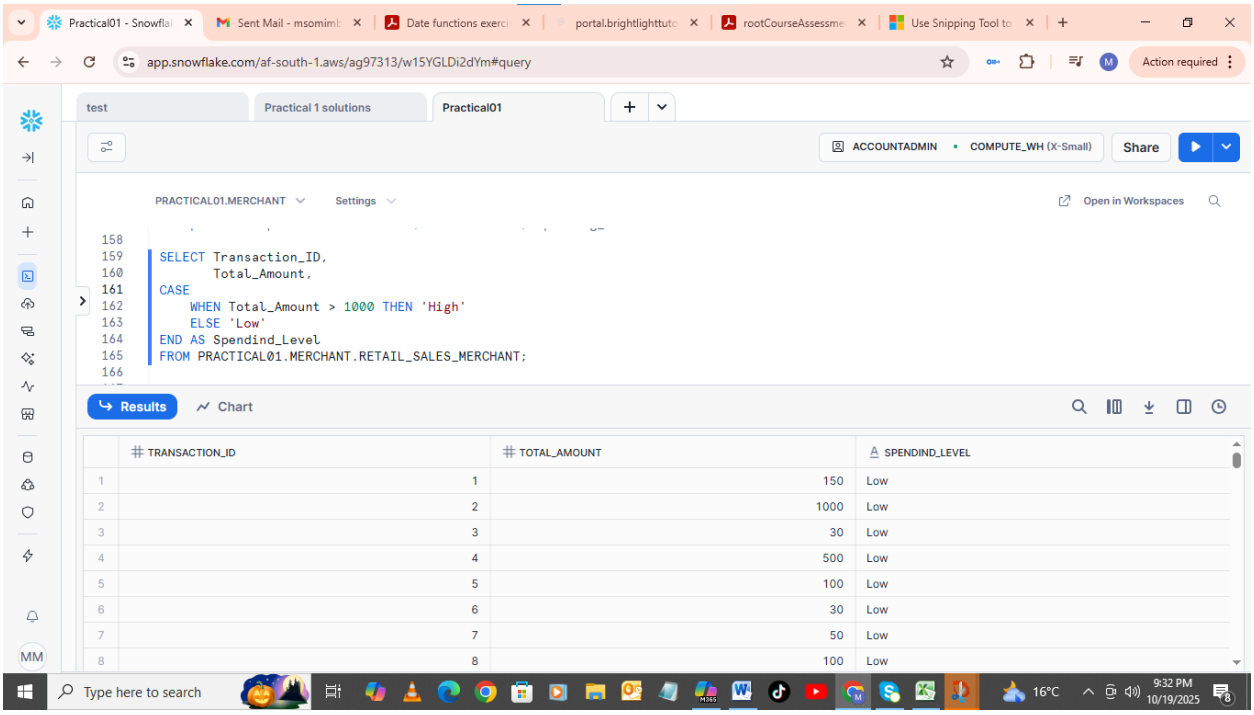
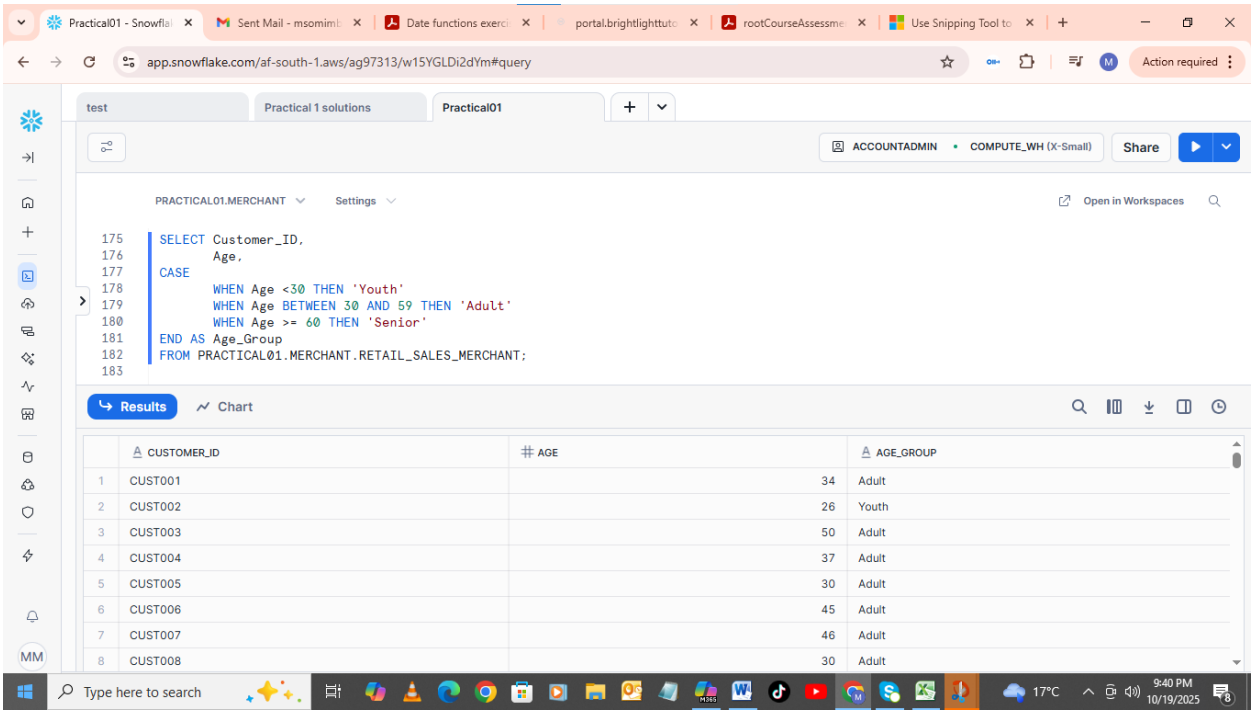


Question 20:



Question 21:


app.snowflake.com/af-south-1.aws/ag97313/w15YGLDi2dYm#query
test
Practical 1 solutions
Practical01
ACCOUNTADMIN • COMPUTE_WH (X-Small)
Share
PRACTICAL01.MERCHANT
Settings
Open in Workspaces
SELECT Customer_ID,
Age,
CASE
WHEN Age <30 THEN 'Youth'
WHEN Age BETWEEN 30 AND 59 THEN 'Adult'
WHEN Age >= 60 THEN 'Senior'
END AS Age_Group
FROM PRACTICAL01.MERCHANT.RETAIL_SALES_MERCHANT;
Results
Chart
CUSTOMER_ID
AGE
AGE_GROUP
1 CUST001 34 Adult
2 CUST002 26 Youth
3 CUST003 50 Adult
4 CUST004 37 Adult
5 CUST005 30 Adult
6 CUST006 45 Adult
7 CUST007 46 Adult
8 CUST008 30 Adult
Type here to search
17°C
9:40 PM
10/19/2025