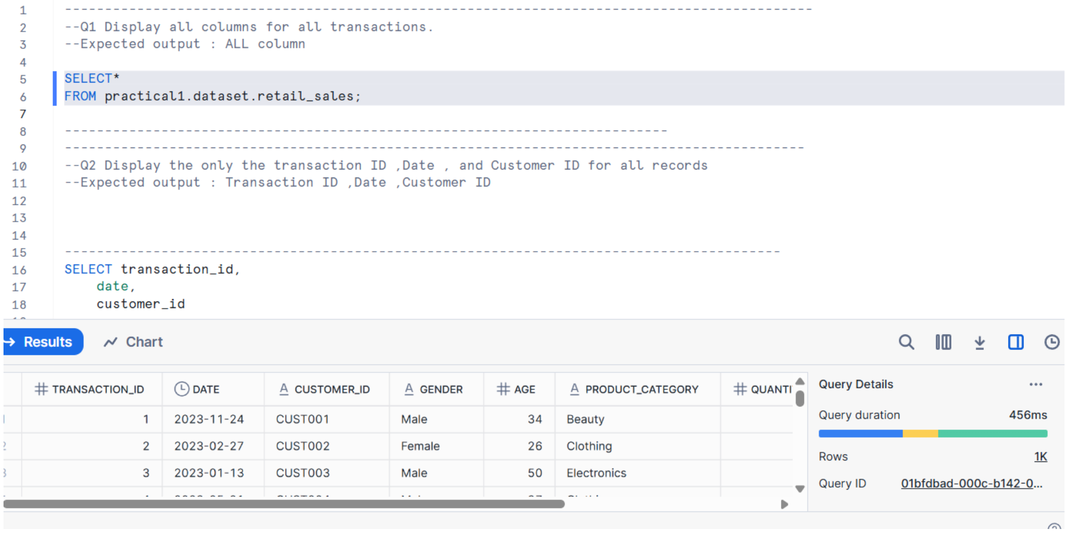
Q1



```
---------------------------------------------------------------------------------------------
--Q1 Display all columns for all transactions.
--Expected output : ALL column

SELECT*
FROM practical1.dataset.retail_sales;

---------------------------------------------------------------------------
--------------------------------------------------------------------------------------------
--Q2 Display the only the transaction ID ,Date , and Customer ID for all records
--Expected output : Transaction ID ,Date ,Customer ID



-----------------------------------------------------------------------------------------
SELECT transaction_id,
    date,
    customer_id
```

	TRANSACTION_ID	DATE	CUSTOMER_ID	GENDER	AGE	PRODUCT_CATEGORY	QUANTI
1	1	2023-11-24	CUST001	Male	34	Beauty	
2	2	2023-02-27	CUST002	Female	26	Clothing	
3	3	2023-01-13	CUST003	Male	50	Electronics	

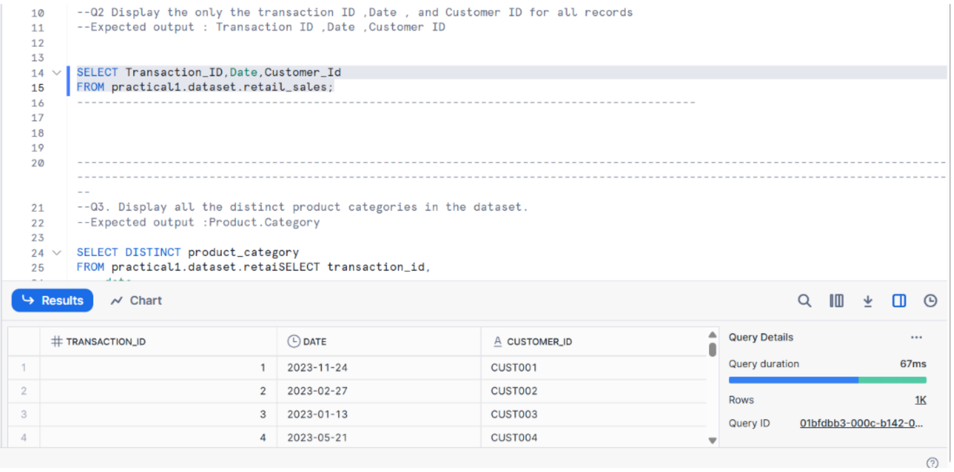
Query Details

Query duration 456ms

Rows 1K

Query ID 01bfdbad-000c-b142-0...

Q2



```
--Q2 Display the only the transaction ID ,Date , and Customer ID for all records
--Expected output : Transaction ID ,Date ,Customer ID


SELECT Transaction_ID,Date,Customer_Id
FROM practical1.dataset.retail_sales;
------------------------------------------------------------------------------------------




--------------------------------------------------------------------------------------------------------------------------------
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--
--Q3. Display all the distinct product categories in the dataset.
--Expected output :Product.Category

SELECT DISTINCT product_category
FROM practical1.dataset.retaiSELECT transaction_id,
```
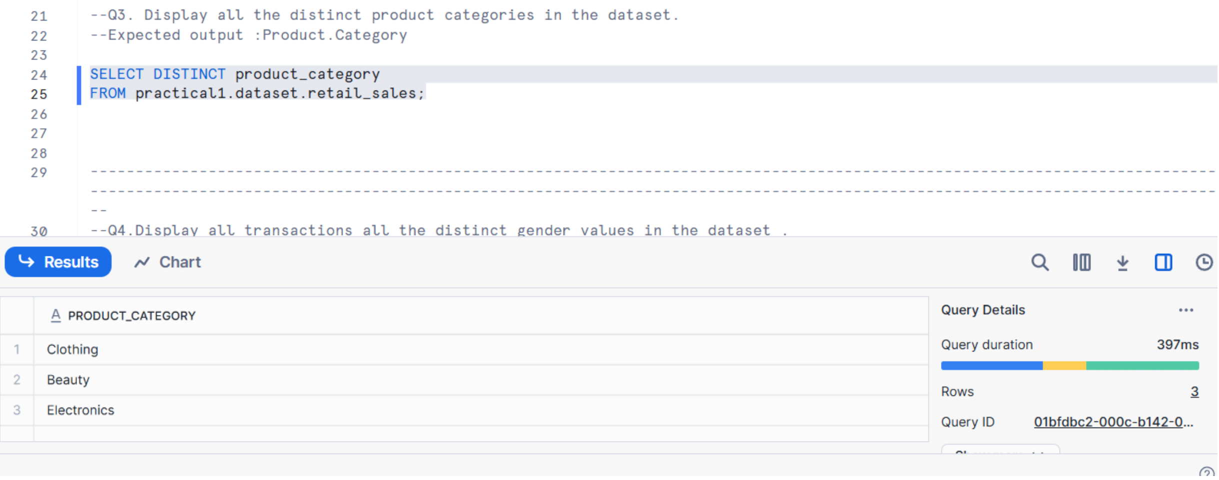

	TRANSACTION_ID	DATE	CUSTOMER_ID
1	1	2023-11-24	CUST001
2	2	2023-02-27	CUST002
3	3	2023-01-13	CUST003
4	4	2023-05-21	CUST004

Query Details
Query duration 67ms
Rows 1K
Query ID 01bfdbb3-000c-b142-0...

Q3

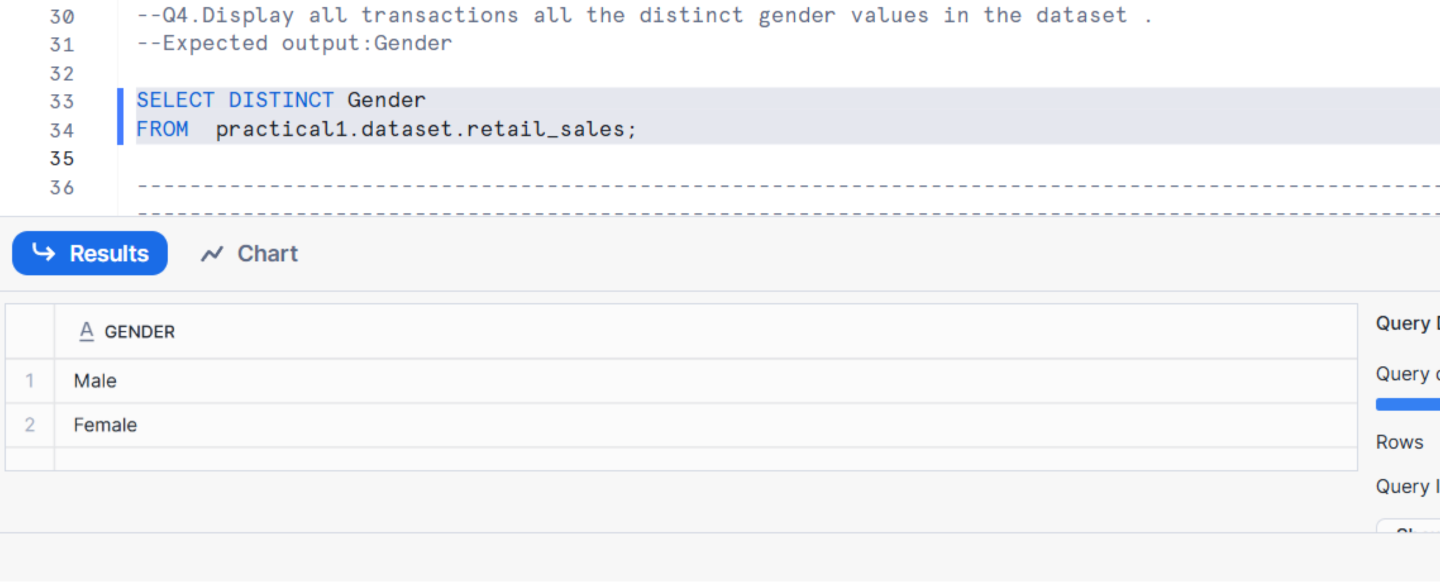


```
--Q3. Display all the distinct product categories in the dataset.
--Expected output :Product.Category

SELECT DISTINCT product_category
FROM practical1.dataset.retail_sales;



--------------------------------------------------------------------------------------------------------------------------------
--------------------------------------------------------------------------------------------------------------------------------
--
--Q4.Display all transactions all the distinct gender values in the dataset .
```

	PRODUCT_CATEGORY
1	Clothing
2	Beauty
3	Electronics

Query Details
Query duration 397ms
Rows 3
Query ID 01bfdbc2-000c-b142-0...

Q4.

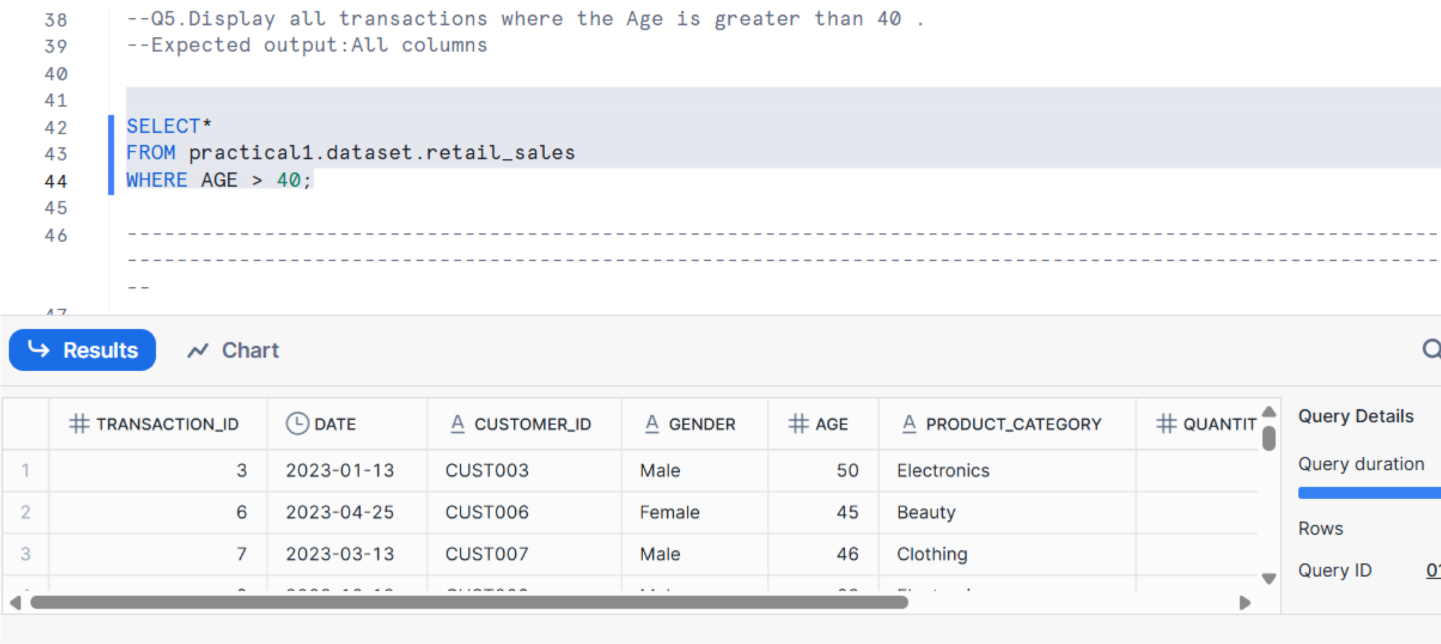


```
--Q4.Display all transactions all the distinct gender values in the dataset .
--Expected output:Gender

SELECT DISTINCT Gender
FROM  practical1.dataset.retail_sales;

--------------------------------------------------------------------------------
--------------------------------------------------------------------------------
```

	GENDER
1	Male
2	Female

Query
Query
Rows
Query

Q5



```
--Q5.Display all transactions where the Age is greater than 40 .
--Expected output:All columns


SELECT*
FROM practical1.dataset.retail_sales
WHERE AGE > 40;

-----------------------------------------------------------------------------------------------------------
-----------------------------------------------------------------------------------------------------------
--
```

	TRANSACTION_ID	DATE	CUSTOMER_ID	GENDER	AGE	PRODUCT_CATEGORY	QUANTIT
1	3	2023-01-13	CUST003	Male	50	Electronics	
2	6	2023-04-25	CUST006	Female	45	Beauty	
3	7	2023-03-13	CUST007	Male	46	Clothing	

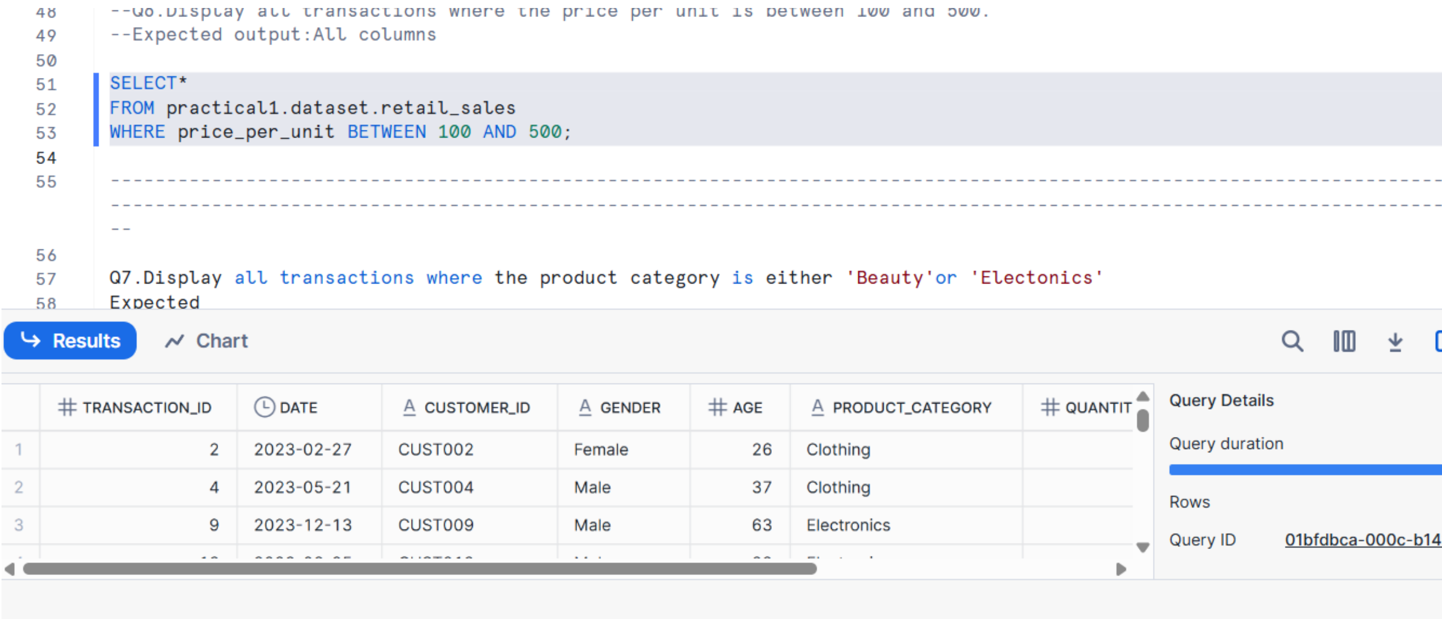
Query Details

Query duration

Rows

Query ID 01

Q6



```
--Q6.Display all transactions where the price per unit is between 100 and 500.
--Expected output:All columns

SELECT*
FROM practical1.dataset.retail_sales
WHERE price_per_unit BETWEEN 100 AND 500;

-----------------------------------------------------------------------------------------------------------
-----------------------------------------------------------------------------------------------------------
--

Q7.Display all transactions where the product category is either 'Beauty'or 'Electonics'
Expected
```

	TRANSACTION_ID	DATE	CUSTOMER_ID	GENDER	AGE	PRODUCT_CATEGORY	QUANTIT
1	2	2023-02-27	CUST002	Female	26	Clothing	
2	4	2023-05-21	CUST004	Male	37	Clothing	
3	9	2023-12-13	CUST009	Male	63	Electronics	

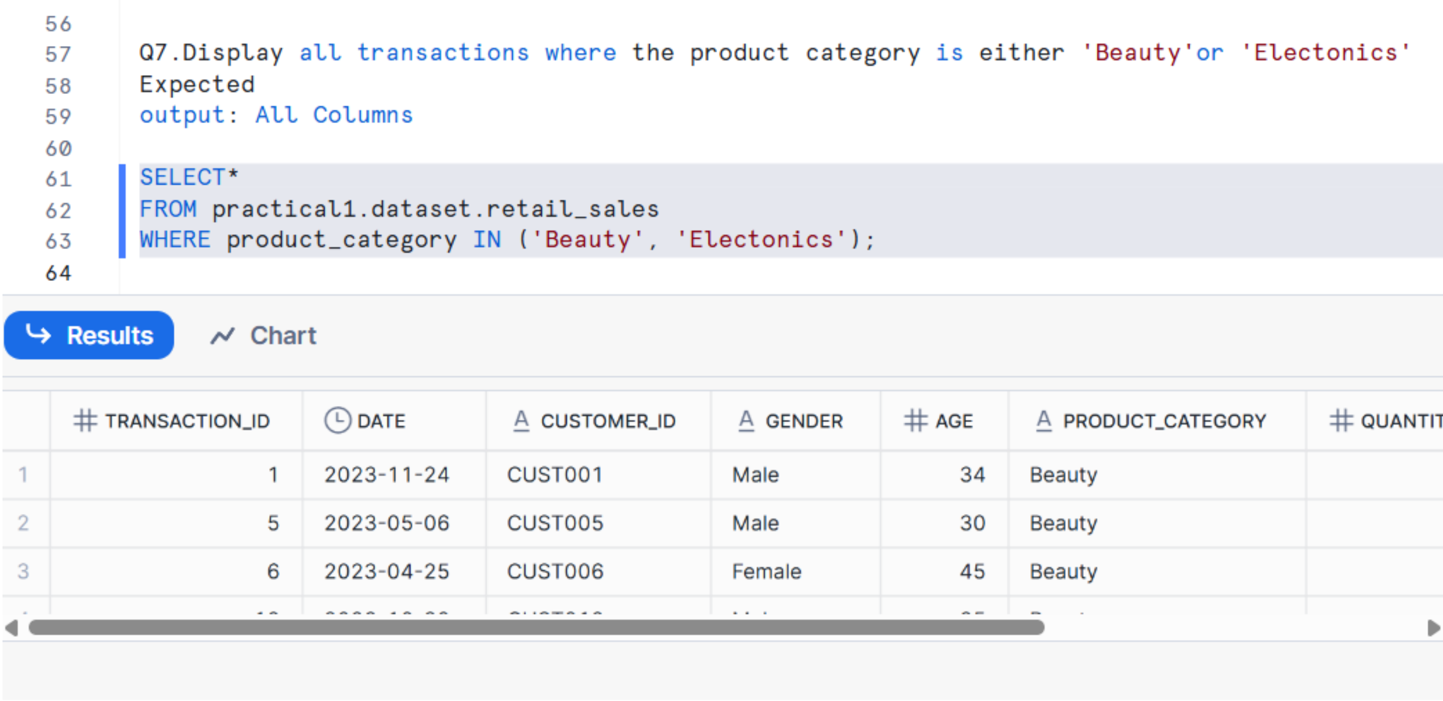
Query Details

Query duration

Rows

Query ID 01bfdbca-000c-b14

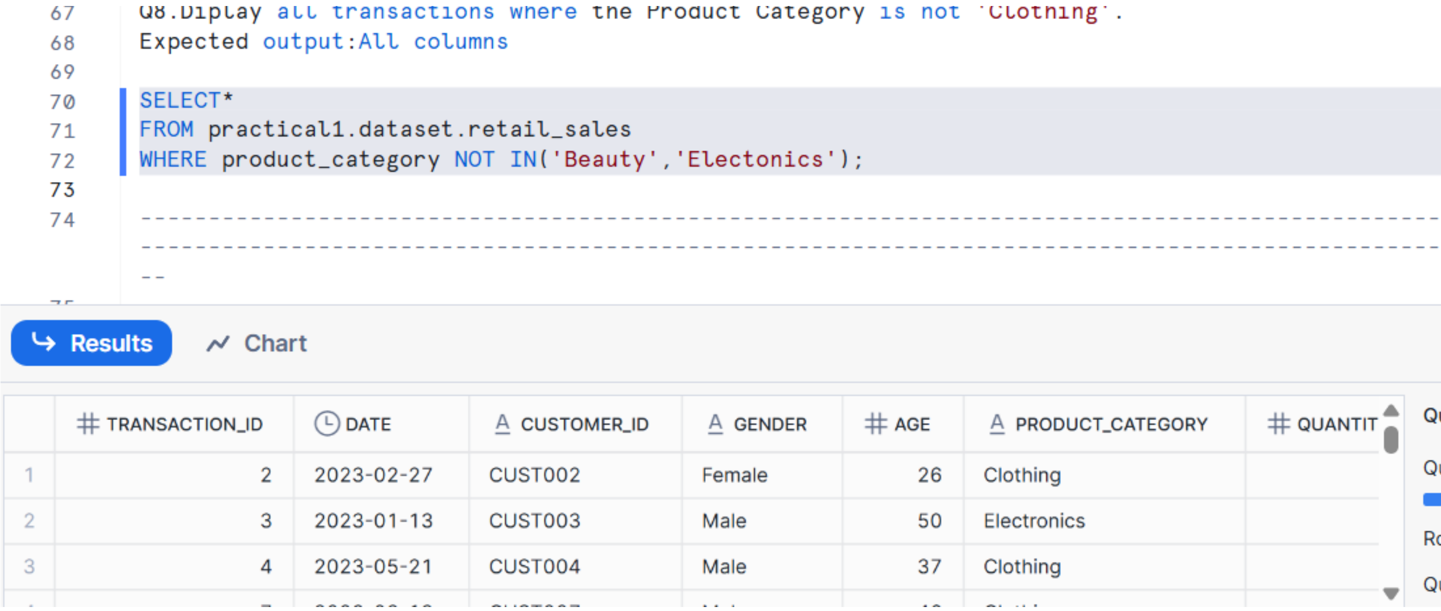
Q7



```
Q7.Display all transactions where the product category is either 'Beauty'or 'Electonics'
Expected
output: All Columns

SELECT*
FROM practical1.dataset.retail_sales
WHERE product_category IN ('Beauty', 'Electonics');
```

	TRANSACTION_ID	DATE	CUSTOMER_ID	GENDER	AGE	PRODUCT_CATEGORY	QUANTIT
1	1	2023-11-24	CUST001	Male	34	Beauty	
2	5	2023-05-06	CUST005	Male	30	Beauty	
3	6	2023-04-25	CUST006	Female	45	Beauty	

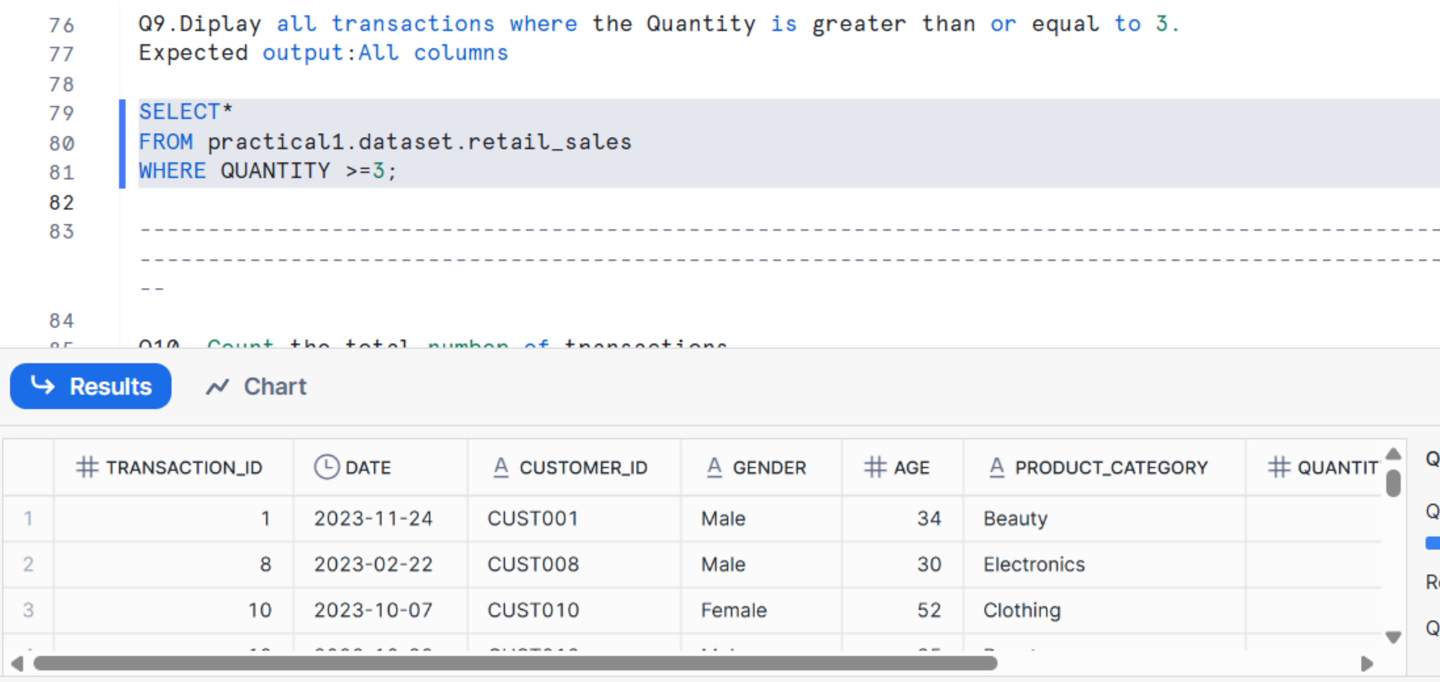
Q8



```
Q8.Diplay all transactions where the Product Category is not 'Clothing'.
Expected output:All columns

SELECT*
FROM practical1.dataset.retail_sales
WHERE product_category NOT IN('Beauty','Electonics');

------------------------------------------------------------------------------------------
------------------------------------------------------------------------------------------
--
```

	TRANSACTION_ID	DATE	CUSTOMER_ID	GENDER	AGE	PRODUCT_CATEGORY	QUANTIT
1	2	2023-02-27	CUST002	Female	26	Clothing	
2	3	2023-01-13	CUST003	Male	50	Electronics	
3	4	2023-05-21	CUST004	Male	37	Clothing	

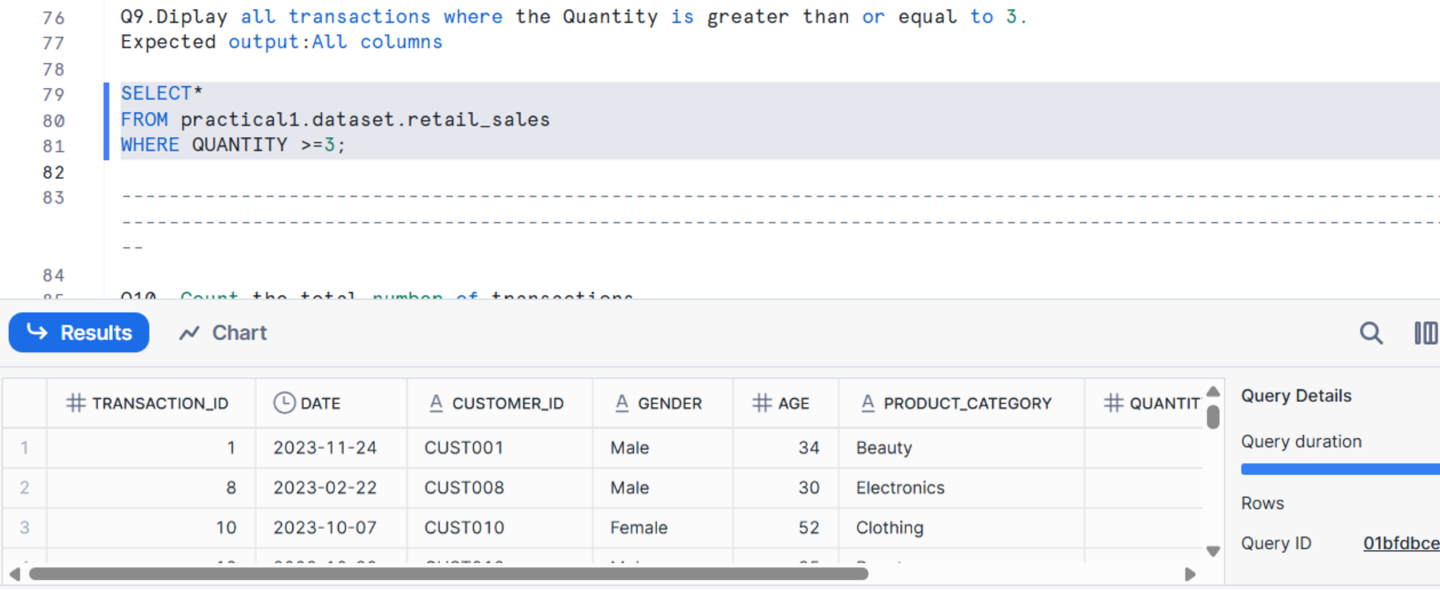
Q8



```
Q9.Diplay all transactions where the Quantity is greater than or equal to 3.
Expected output:All columns

SELECT*
FROM practical1.dataset.retail_sales
WHERE QUANTITY >=3;

------------------------------------------------------------------------------------------------
------------------------------------------------------------------------------------------------
--

Q10. Count the total number of transactions
```

	TRANSACTION_ID	DATE	CUSTOMER_ID	GENDER	AGE	PRODUCT_CATEGORY	QUANTIT
1	1	2023-11-24	CUST001	Male	34	Beauty	
2	8	2023-02-22	CUST008	Male	30	Electronics	
3	10	2023-10-07	CUST010	Female	52	Clothing	

Q9



```
Q9.Diplay all transactions where the Quantity is greater than or equal to 3.
Expected output:All columns

SELECT*
FROM practical1.dataset.retail_sales
WHERE QUANTITY >=3;

------------------------------------------------------------------------------------------------
------------------------------------------------------------------------------------------------
--

Q10. Count the total number of transactions
```

	TRANSACTION_ID	DATE	CUSTOMER_ID	GENDER	AGE	PRODUCT_CATEGORY	QUANTIT
1	1	2023-11-24	CUST001	Male	34	Beauty	
2	8	2023-02-22	CUST008	Male	30	Electronics	
3	10	2023-10-07	CUST010	Female	52	Clothing	

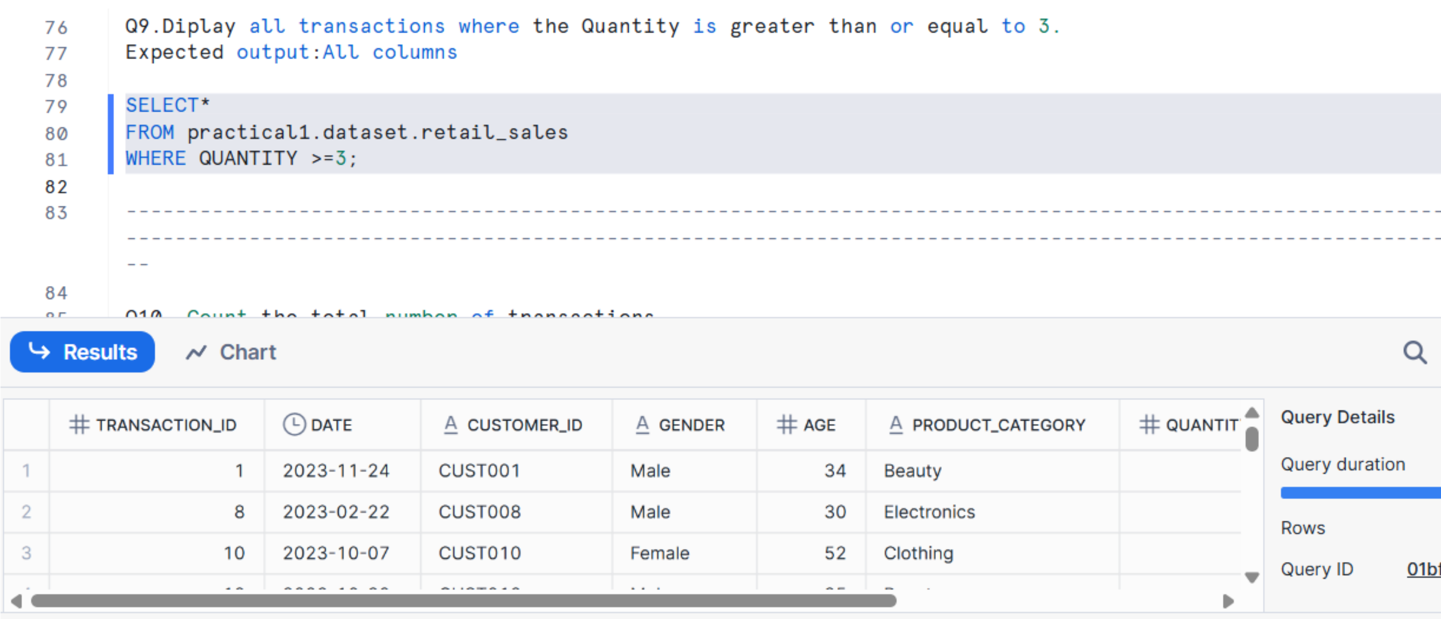
Query Details

Query duration

Rows

Query ID 01bfdbce

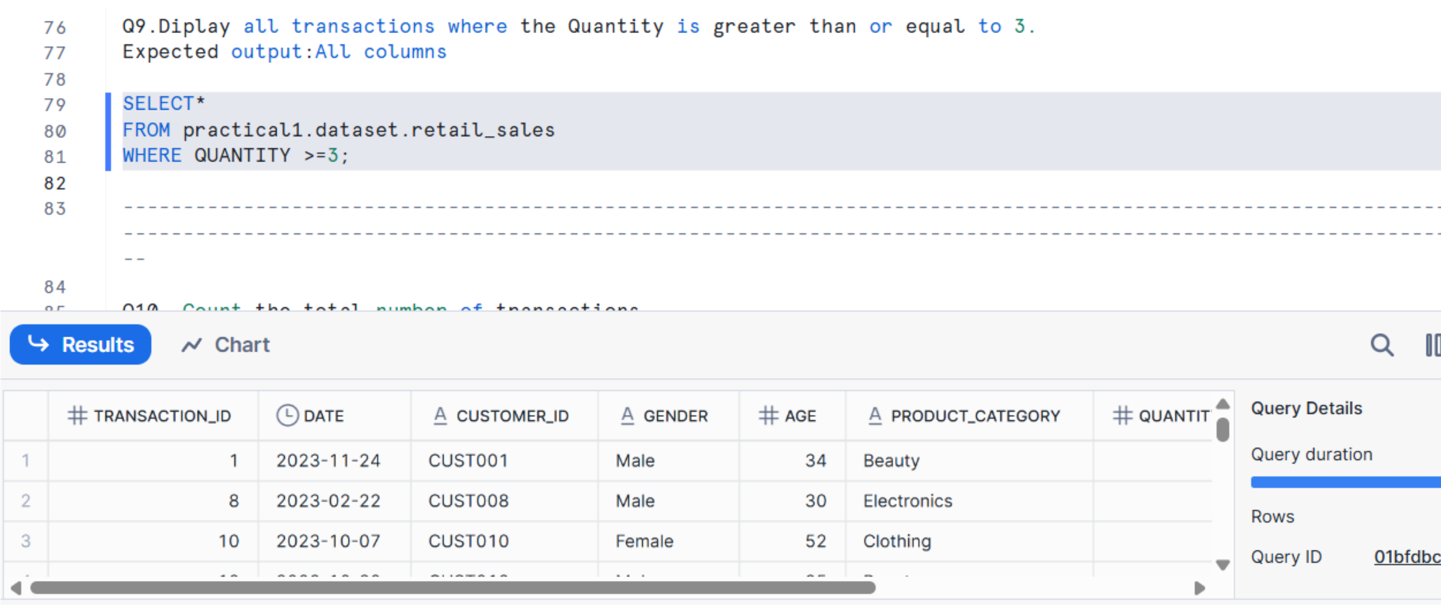
Q10



```
Q9.Diplay all transactions where the Quantity is greater than or equal to 3.
Expected output:All columns

SELECT*
FROM practical1.dataset.retail_sales
WHERE QUANTITY >=3;

----------------------------------------------------------------------------------------
----------------------------------------------------------------------------------------
--

Q10. Count the total number of transactions
```

	TRANSACTION_ID	DATE	CUSTOMER_ID	GENDER	AGE	PRODUCT_CATEGORY	QUANTIT
1	1	2023-11-24	CUST001	Male	34	Beauty	
2	8	2023-02-22	CUST008	Male	30	Electronics	
3	10	2023-10-07	CUST010	Female	52	Clothing	

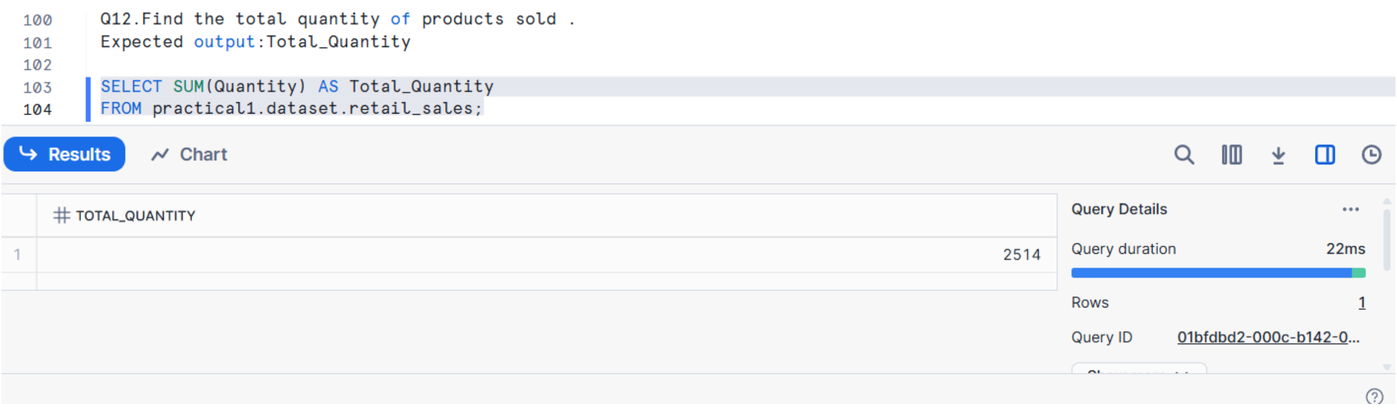
Q11



```
Q9.Diplay all transactions where the Quantity is greater than or equal to 3.
Expected output:All columns

SELECT*
FROM practical1.dataset.retail_sales
WHERE QUANTITY >=3;

----------------------------------------------------------------------------------------
----------------------------------------------------------------------------------------
--

Q10. Count the total number of transactions
```

	TRANSACTION_ID	DATE	CUSTOMER_ID	GENDER	AGE	PRODUCT_CATEGORY	QUANTIT
1	1	2023-11-24	CUST001	Male	34	Beauty	
2	8	2023-02-22	CUST008	Male	30	Electronics	
3	10	2023-10-07	CUST010	Female	52	Clothing	

Q12



```
Q12.Find the total quantity of products sold .
Expected output:Total_Quantity

SELECT SUM(Quantity) AS Total_Quantity
FROM practical1.dataset.retail_sales;
```

	TOTAL_QUANTITY
1	2514

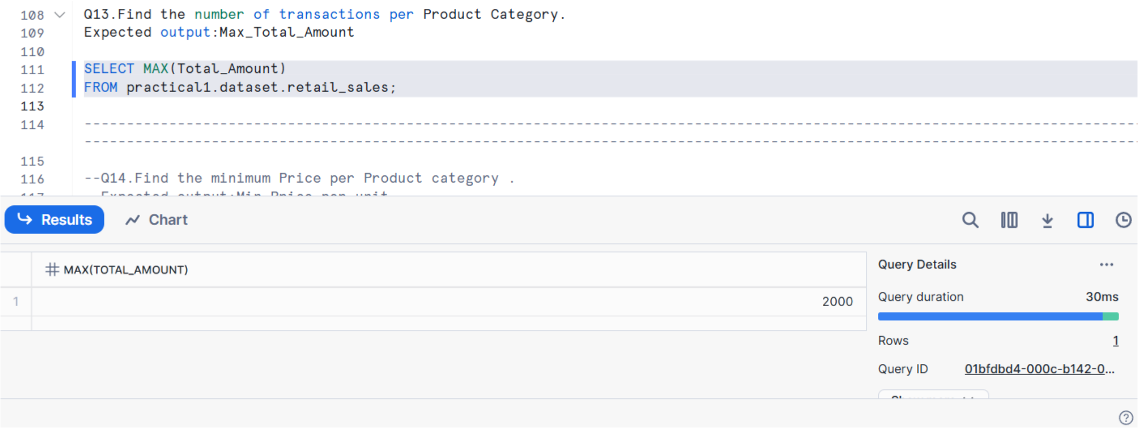
Query Details

Query duration 22ms

Rows 1

Query ID 01bfdbd2-000c-b142-0...

Q13



```
Q13.Find the number of transactions per Product Category.
Expected output:Max_Total_Amount

SELECT MAX(Total_Amount)
FROM practical1.dataset.retail_sales;

---------------------------------------------------------------------------------------------------------
---------------------------------------------------------------------------------------------------------

--Q14.Find the minimum Price per Product category .
```

	MAX(TOTAL_AMOUNT)
1	2000

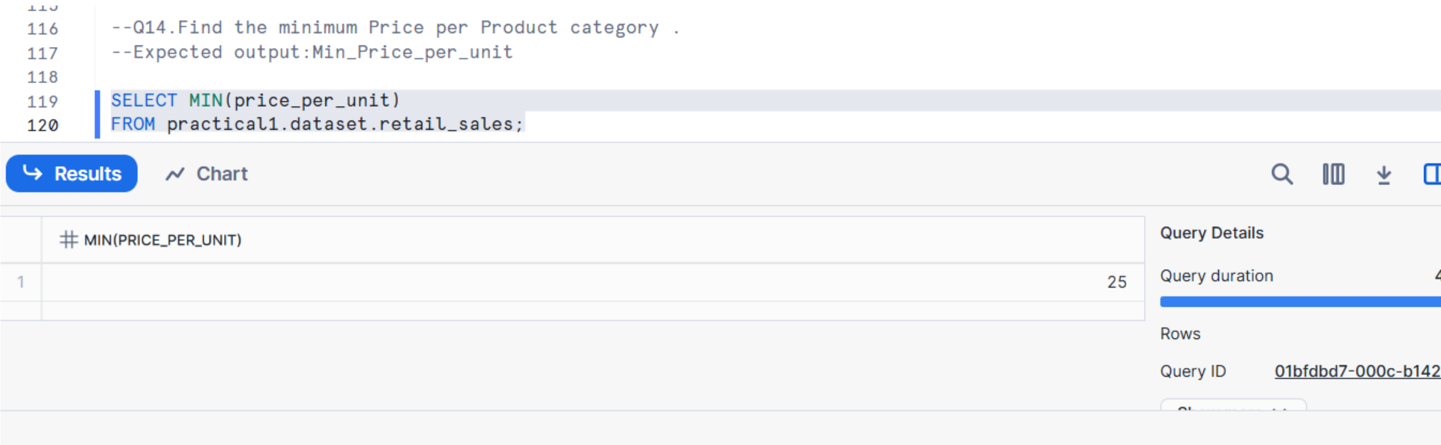
Query Details

Query duration 30ms

Rows 1

Query ID 01bfdbd4-000c-b142-0...

Q14



```
--Q14.Find the minimum Price per Product category .
--Expected output:Min_Price_per_unit

SELECT MIN(price_per_unit)
FROM practical1.dataset.retail_sales;
```

	MIN(PRICE_PER_UNIT)
1	25

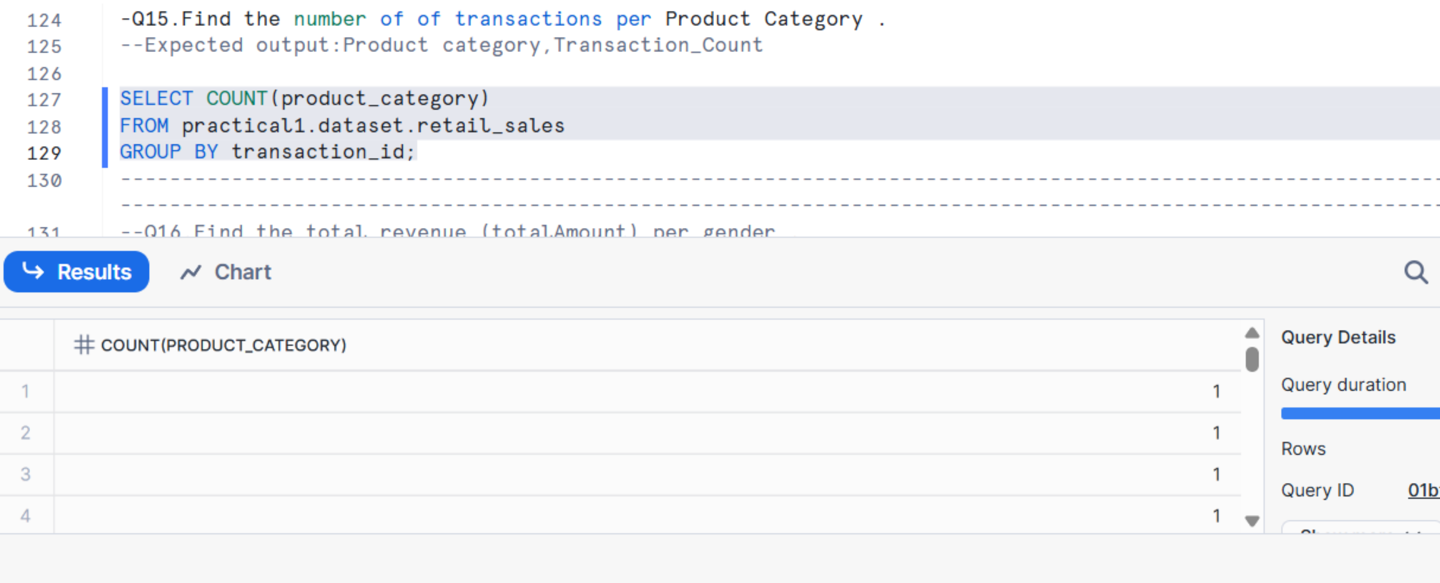
Query Details

Query duration

Rows

Query ID 01bfdbd7-000c-b142

Q15



```
-Q15.Find the number of of transactions per Product Category .
--Expected output:Product category,Transaction_Count

SELECT COUNT(product_category)
FROM practical1.dataset.retail_sales
GROUP BY transaction_id;
--------------------------------------------------------------------------------------------
--------------------------------------------------------------------------------------------
--Q16.Find the total revenue (totalAmount) per gender
```

	COUNT(PRODUCT_CATEGORY)
1	1
2	1
3	1
4	1

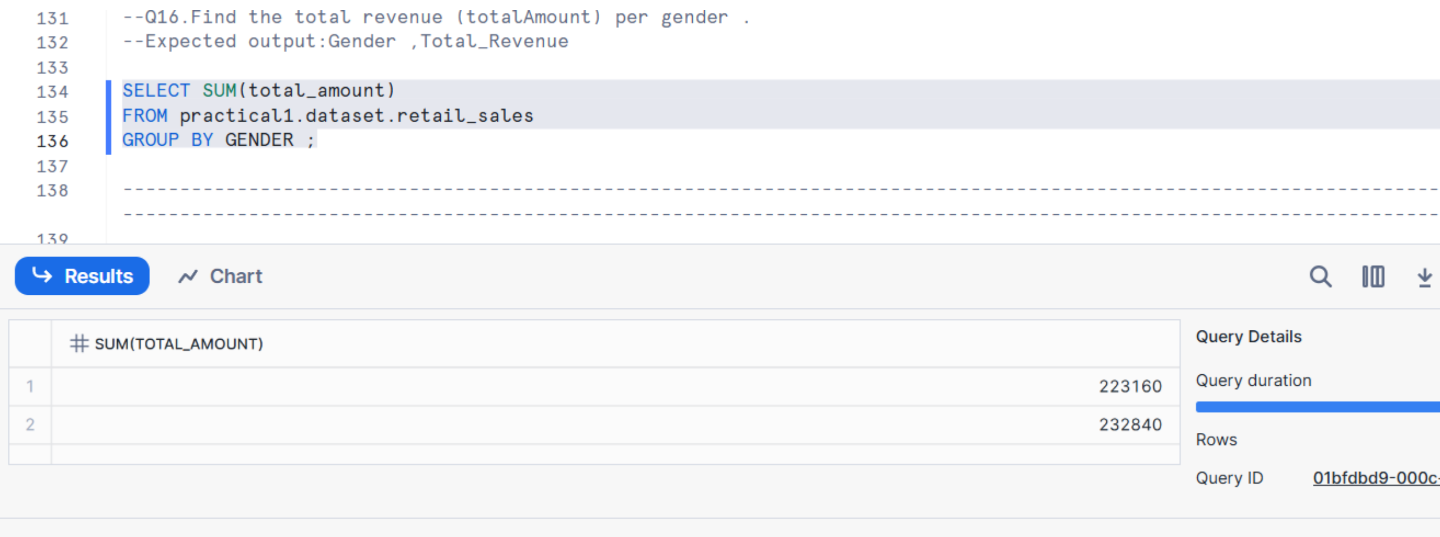
Query Details

Query duration

Rows

Query ID 01b

Q16



```
--Q16.Find the total revenue (totalAmount) per gender .
--Expected output:Gender ,Total_Revenue

SELECT SUM(total_amount)
FROM practical1.dataset.retail_sales
GROUP BY GENDER ;

--------------------------------------------------------------------------------------------
--------------------------------------------------------------------------------------------
```

	SUM(TOTAL_AMOUNT)
1	223160
2	232840

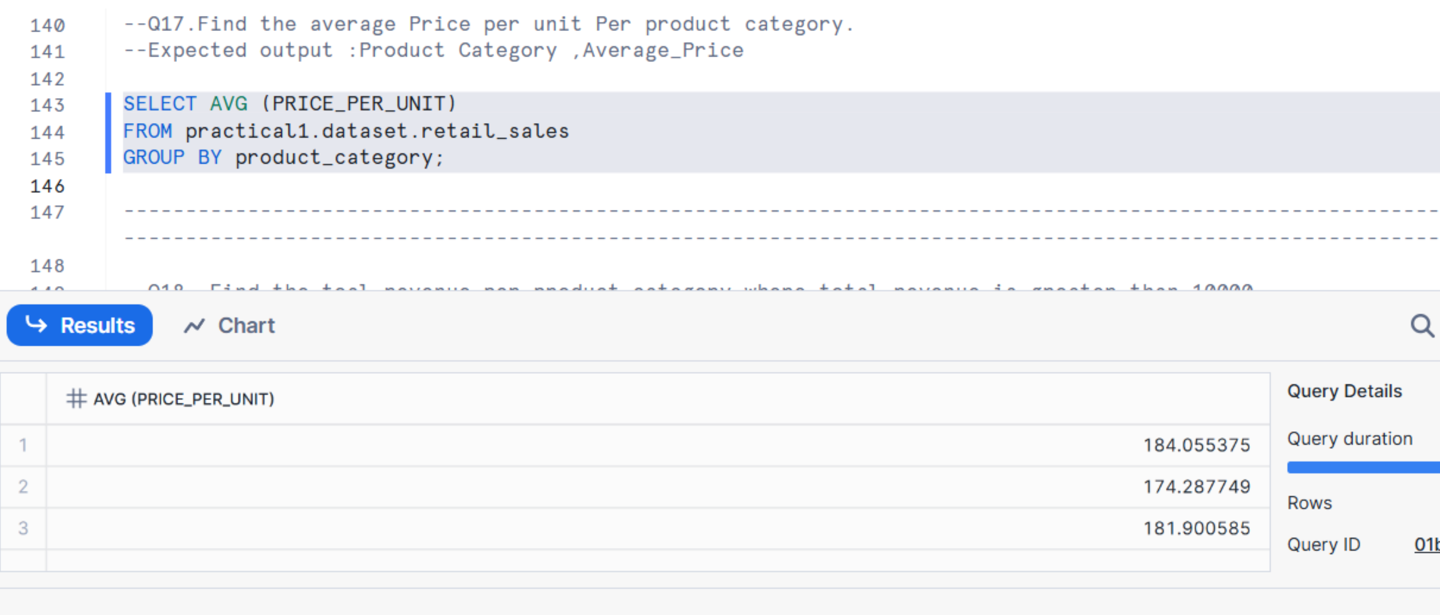
Query Details

Query duration

Rows

Query ID 01bfdbd9-000c

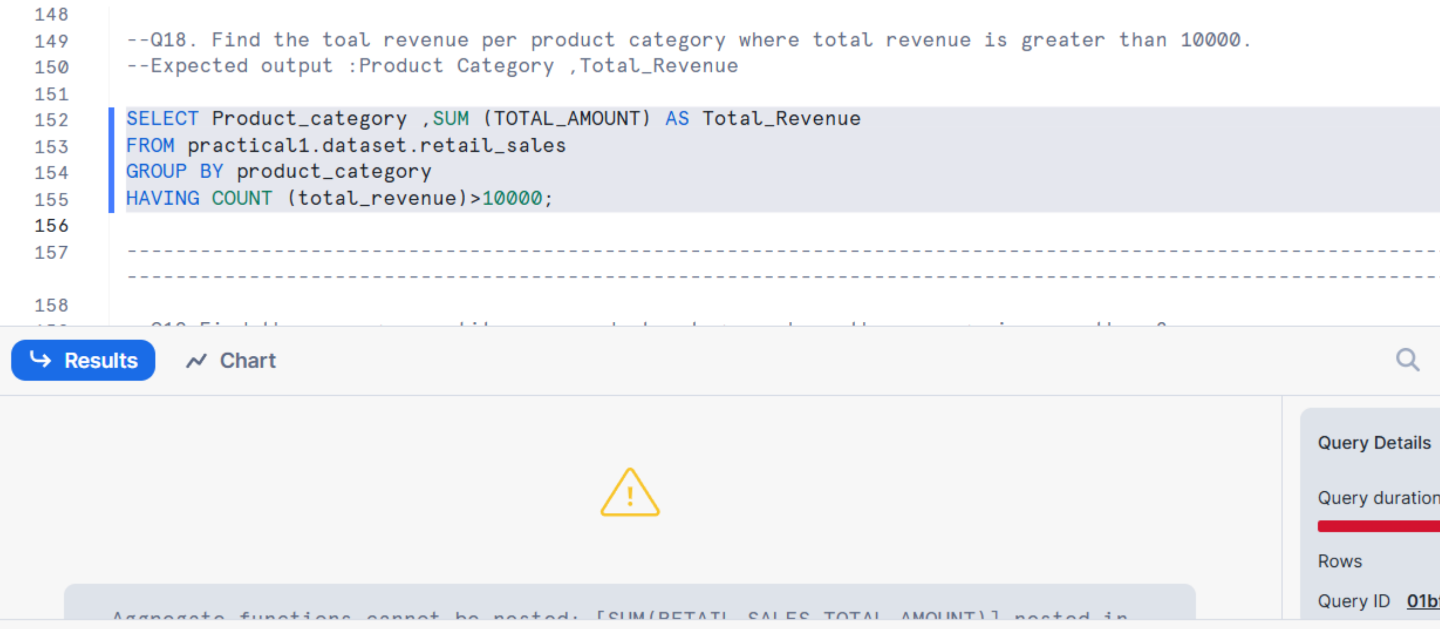
Q17



```sql
--Q17.Find the average Price per unit Per product category.
--Expected output :Product Category ,Average_Price

SELECT AVG (PRICE_PER_UNIT)
FROM practical1.dataset.retail_sales
GROUP BY product_category;

------------------------------------------------------------------------------------------------
------------------------------------------------------------------------------------------------

--Q18. Find the toal revenue per product category where total revenue is greater than 10000
```

	AVG (PRICE_PER_UNIT)
1	184.055375
2	174.287749
3	181.900585

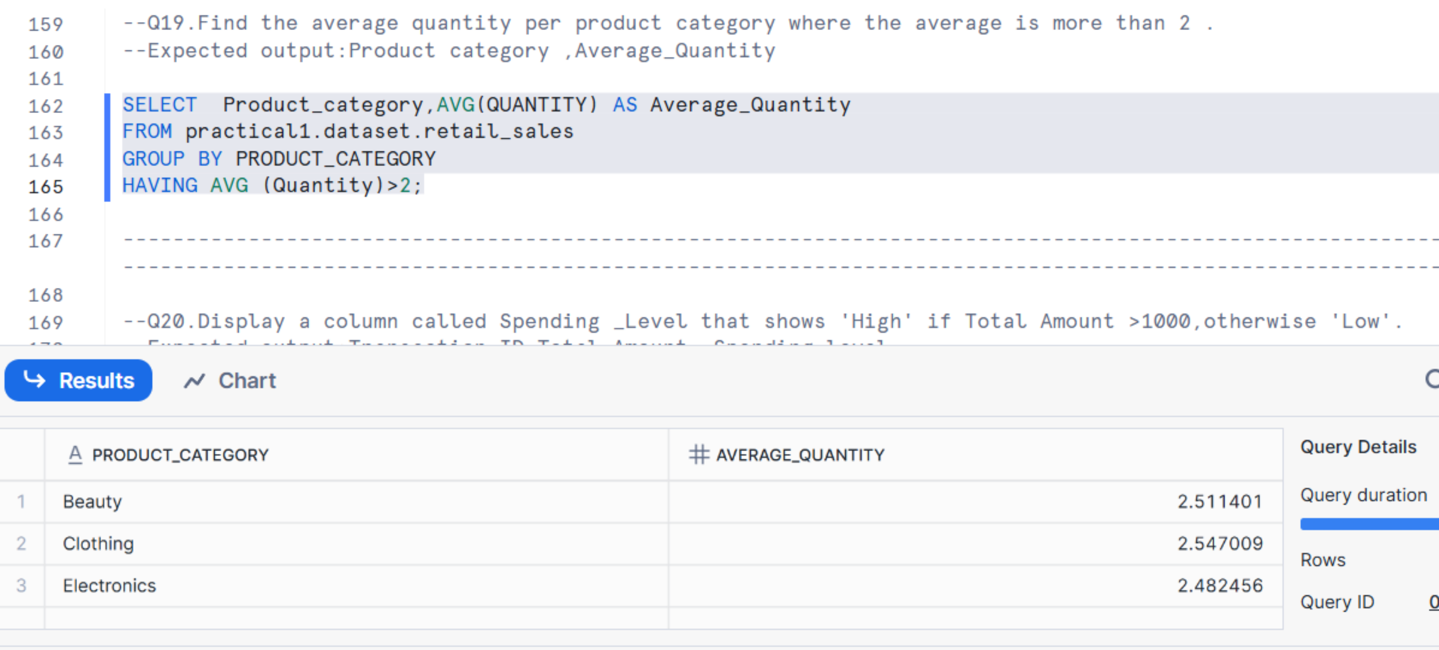
Q18



```sql
--Q18. Find the toal revenue per product category where total revenue is greater than 10000.
--Expected output :Product Category ,Total_Revenue

SELECT Product_category ,SUM (TOTAL_AMOUNT) AS Total_Revenue
FROM practical1.dataset.retail_sales
GROUP BY product_category
HAVING COUNT (total_revenue)>10000;

------------------------------------------------------------------------------------------------
------------------------------------------------------------------------------------------------
```

```
Aggregate functions cannot be nested: [SUM(RETAIL_SALES.TOTAL_AMOUNT)] nested in
```

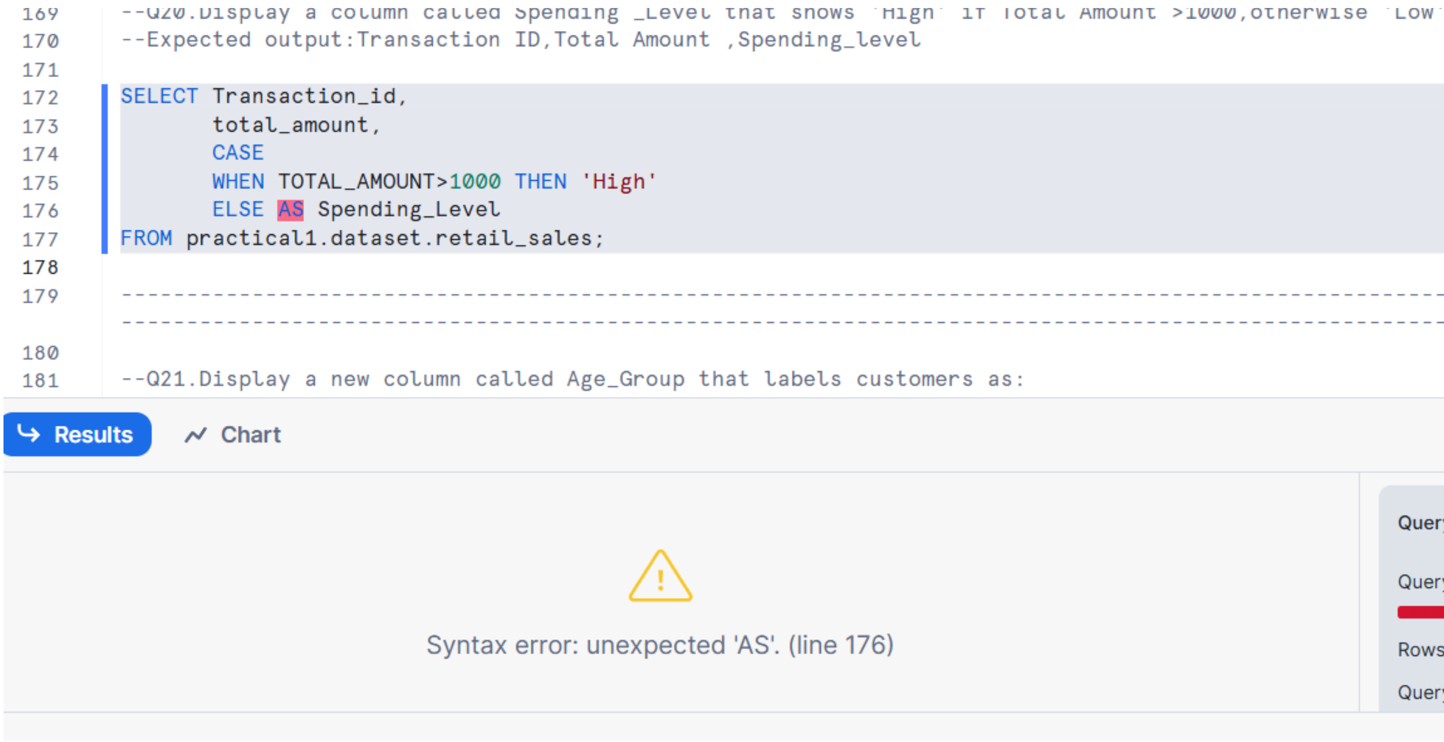
Q19



```
--Q19.Find the average quantity per product category where the average is more than 2 .
--Expected output:Product category ,Average_Quantity

SELECT  Product_category,AVG(QUANTITY) AS Average_Quantity
FROM practical1.dataset.retail_sales
GROUP BY PRODUCT_CATEGORY
HAVING AVG (Quantity)>2;

----------------------------------------------------------------------------------------------------------
----------------------------------------------------------------------------------------------------------

--Q20.Display a column called Spending _Level that shows 'High' if Total Amount >1000,otherwise 'Low'.
```

	PRODUCT_CATEGORY	AVERAGE_QUANTITY
1	Beauty	2.511401
2	Clothing	2.547009
3	Electronics	2.482456

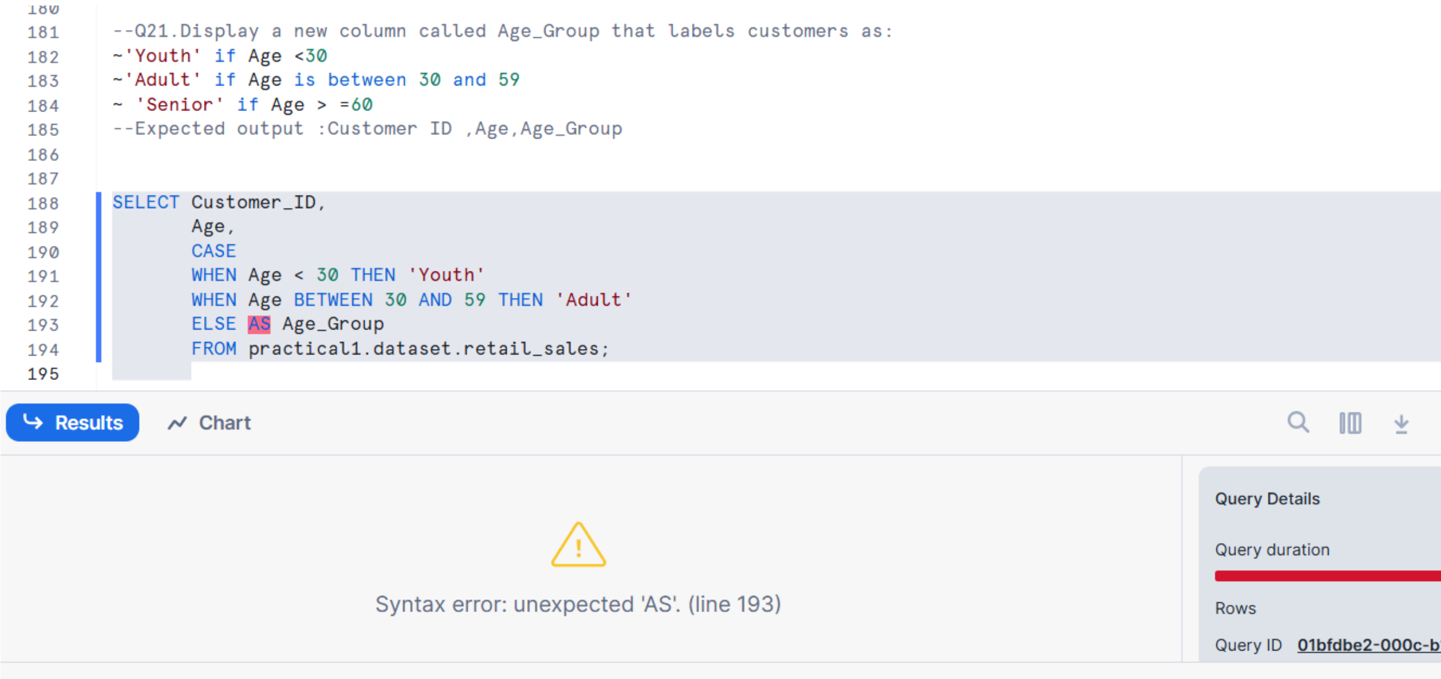
Q20



```
169  --Q20.Display a column called Spending _Level that shows 'High' if Total Amount >1000,otherwise 'Low'
170  --Expected output:Transaction ID,Total Amount ,Spending_level
171
172  SELECT Transaction_id,
173         total_amount,
174         CASE
175         WHEN TOTAL_AMOUNT>1000 THEN 'High'
176         ELSE AS Spending_Level
177  FROM practical1.dataset.retail_sales;
178
179  ----------------------------------------------------------------------------------------------------
     ----------------------------------------------------------------------------------------------------
180
181  --Q21.Display a new column called Age_Group that labels customers as:
```

Syntax error: unexpected 'AS'. (line 176)

Q21



```
180
181  --Q21.Display a new column called Age_Group that labels customers as:
182  ~'Youth' if Age <30
183  ~'Adult' if Age is between 30 and 59
184  ~ 'Senior' if Age > =60
185  --Expected output :Customer ID ,Age,Age_Group
186
187
188  SELECT Customer_ID,
189         Age,
190         CASE
191         WHEN Age < 30 THEN 'Youth'
192         WHEN Age BETWEEN 30 AND 59 THEN 'Adult'
193         ELSE AS Age_Group
194         FROM practical1.dataset.retail_sales;
195
```

Syntax error: unexpected 'AS'. (line 193)

Query Details

Query duration

Rows

Query ID 01bfdbe2-000c-b