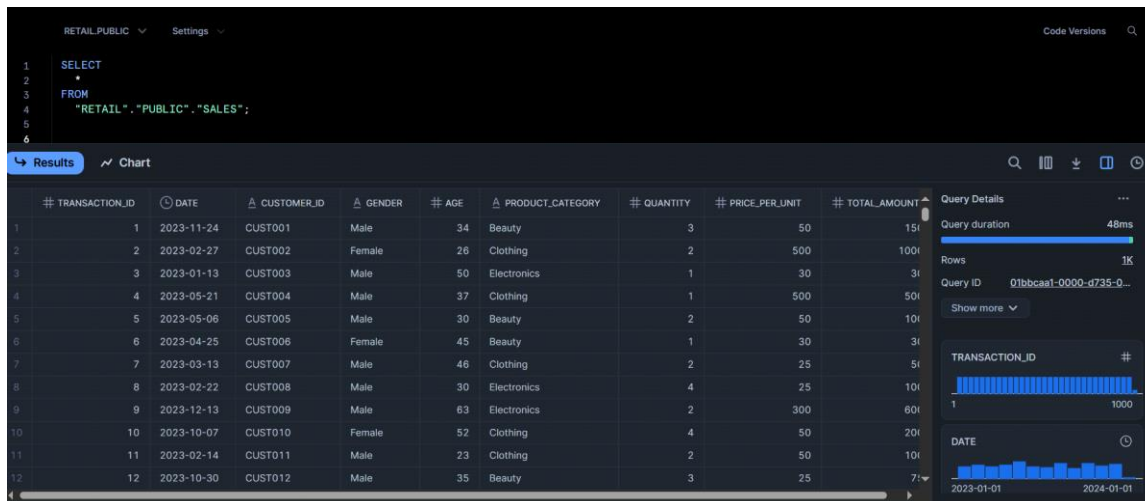


- **SELECT Statement**

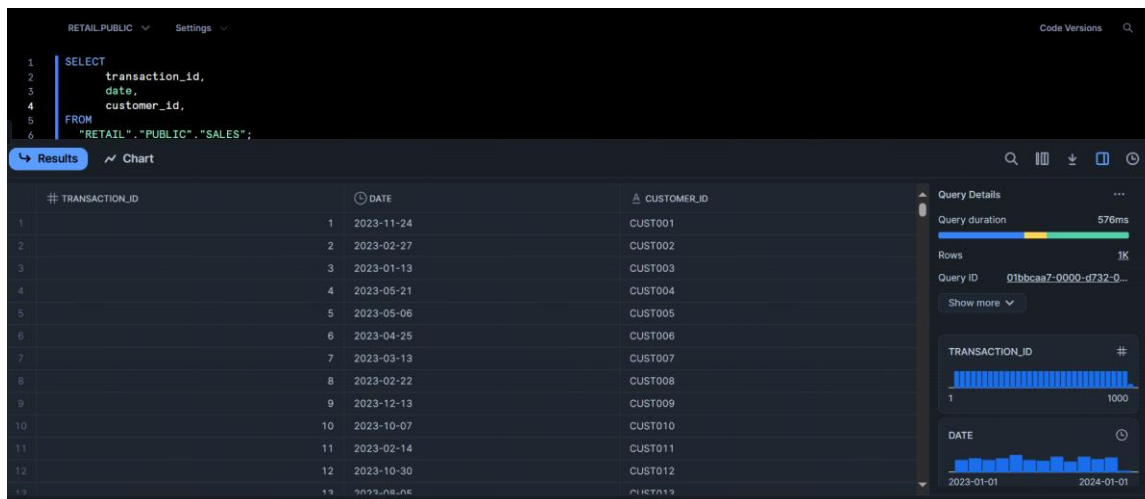
Q1. Display all columns for all transactions.

Expected output: All columns



Q2. Display only the Transaction ID, Date, and Customer ID for all records.

Expected output: Transaction ID, Date, Customer ID



- **SELECT DISTINCT Statement**

Q3. Display all the distinct product categories in the dataset.

Expected output: Product Category

SQL Query Editor Interface:

```
1 SELECT DISTINCT
2   product_category
3 FROM
4   "RETAIL"."PUBLIC"."SALES";
5
6
```

Results:

PRODUCT_CATEGORY
Beauty
Clothing
Electronics

Query Details:

- Query duration: 266ms
- Rows: 3
- Query ID: 01bbcaac-0000-d735-0...
- Show more

PRODUCT_CATEGORY: 100% filled

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

SQL Query Editor Interface:

```
1 SELECT DISTINCT
2   gender,
3 FROM
4   "RETAIL"."PUBLIC"."SALES";
5
6
```

Results:

GENDER
Male
Female

Query Details:

- Query duration: 253ms
- Rows: 2
- Query ID: 01bbcaae-0000-d727-0...
- Show more

GENDER: 100% filled

- **WHERE Clause**

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

RETAIL_PUBLIC Settings Code Versions

```

1 SELECT
2 *
3 FROM
4 "RETAIL"."PUBLIC"."SALES"
5 WHERE
6 age > '40';
7
8
9
10

```

Results Chart

#	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

Query Details

Query duration 287ms

Rows 534

Query ID 01bbcad2-0000-d732-0...

Show more

TRANSACTION_ID #

Q6. Display all transactions where the Price per Unit is between 100 and 500.
Expected output: All columns

RETAIL_PUBLIC Settings Code Versions

```

1 SELECT
2 *
3 FROM
4 "RETAIL"."PUBLIC"."SALES"
5 WHERE
6 price_per_unit BETWEEN '100' AND '500';
7
8
9
10

```

Results Chart

#	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

Query Details

Query duration 225ms

Rows 398

Query ID 01bbcad2-0000-d709-0...

Show more

TRANSACTION_ID #

Q7. Display all transactions where the Product Category is either 'Beauty' or 'Electronics'.
Expected output: All columns

RETAIL_PUBLIC Settings Code Versions

```

SELECT
*
FROM
"RETAIL"."PUBLIC"."SALES"
WHERE
PRODUCT_CATEGORY = 'beauty'
OR
PRODUCT_CATEGORY = 'electronics';

```

Results Chart

TRANSACTION_ID	DATE	CUSTOMER_ID	GENDER	AGE	PRODUCT_CATEGORY	QUANTITY	PRICE_PER_UNIT	TOTAL_AM
Query produced no results								

Query Details

- Query duration: 63ms
- Rows: 0
- Query ID: 01bbcac8-0000-d727-0...

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

RETAIL_PUBLIC Settings Code Versions

```

1 SELECT
2 *
3 FROM
4 "RETAIL"."PUBLIC"."SALES"
5 WHERE
6 product_category <> 'clothing';
7
8
9
10

```

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	2	2023-02-27	CUST002	Female	26	Clothing	2	500	1000
3	3	2023-01-13	CUST003	Male	50	Electronics	1	30	30
4	4	2023-05-21	CUST004	Male	37	Clothing	1	500	500
5	5	2023-05-06	CUST005	Male	30	Beauty	2	50	100
6	6	2023-04-25	CUST006	Female	45	Beauty	1	30	30
7	7	2023-03-13	CUST007	Male	46	Clothing	2	25	50
8	8	2023-02-22	CUST008	Male	30	Electronics	4	25	100
9	9	2023-12-13	CUST009	Male	63	Electronics	2	300	600

Query Details

- Query duration: 55ms
- Rows: 1K
- Query ID: 01bbcad1-0000-d727-0...

TRANSACTION_ID #

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

RETAIL_PUBLIC Settings Code Versions

```

1 SELECT
2 *
3 FROM
4 "RETAIL"."PUBLIC"."SALES"
5 WHERE
6 quantity > '3'
7 OR quantity = '3';
8
9
10

```

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

Query Details

Query duration 125ms

Rows 504

Query ID 01bbcae2-0000-d709-0...

Show more

TRANSACTION_ID

- Aggregate Functions

Q10. Count the total number of transactions.

Expected output: Total_Transactions

RETAIL_PUBLIC Settings Code Versions

```

1 SELECT COUNT ('transaction') AS total_transaction,
2 FROM
3 "RETAIL"."PUBLIC"."SALES";
4
5
6
7
8
9
10
11
12
13
14

```

Results Chart

TOTAL_TRANSACTION
1000

Query Details

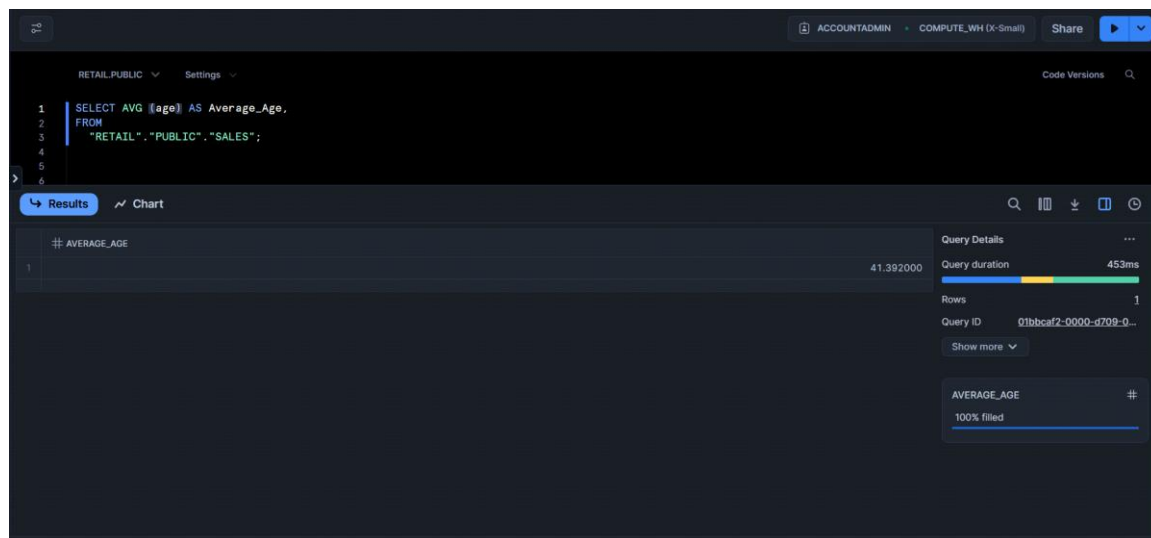
Query duration 30ms

Rows 1

Query ID 01bbcae1f-0000-d709-0...

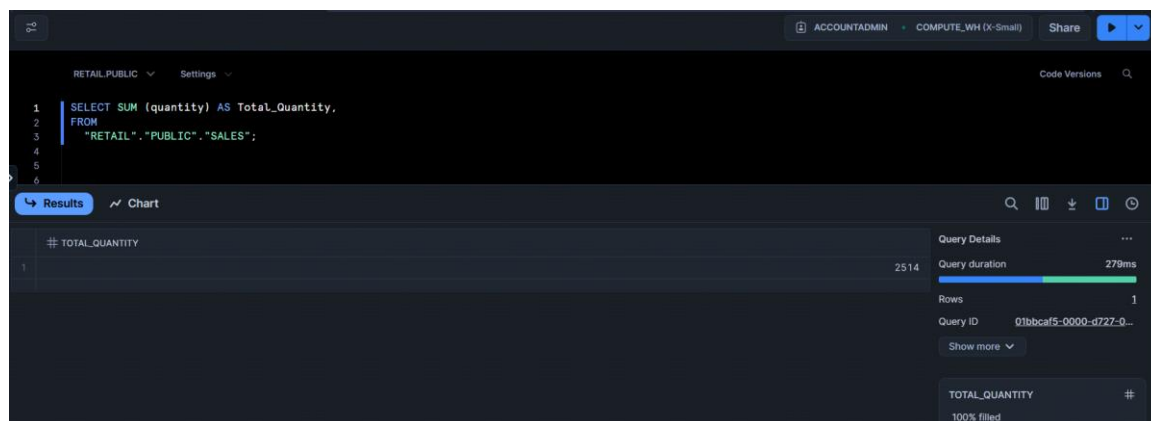
Q11. Find the average Age of customers.

Expected output: Average_Age



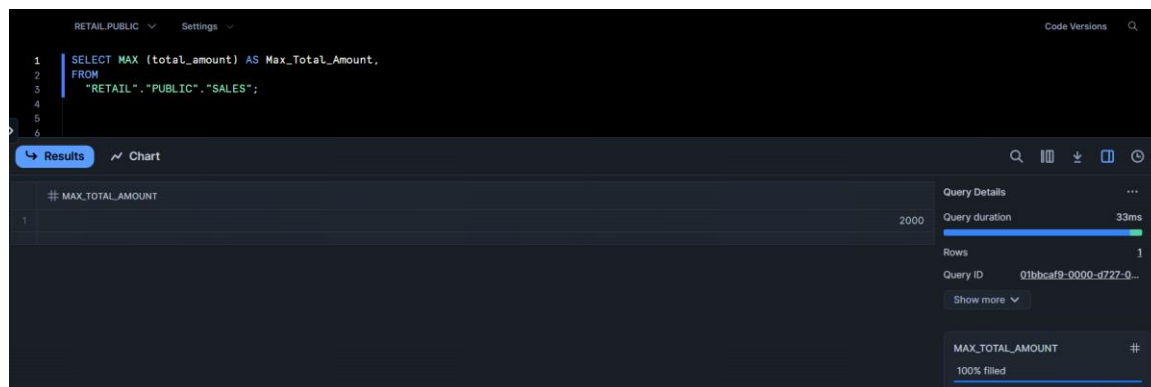
Q12. Find the total quantity of products sold.

Expected output: Total_Quantity



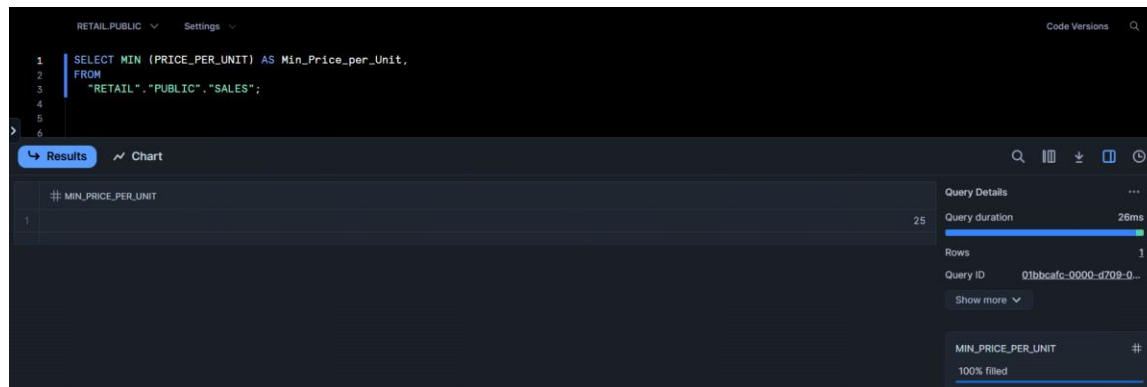
Q13. Find the maximum Total Amount spent in a single transaction.

Expected output: Max_Total_Amount



Q14. Find the minimum Price per Unit in the dataset.

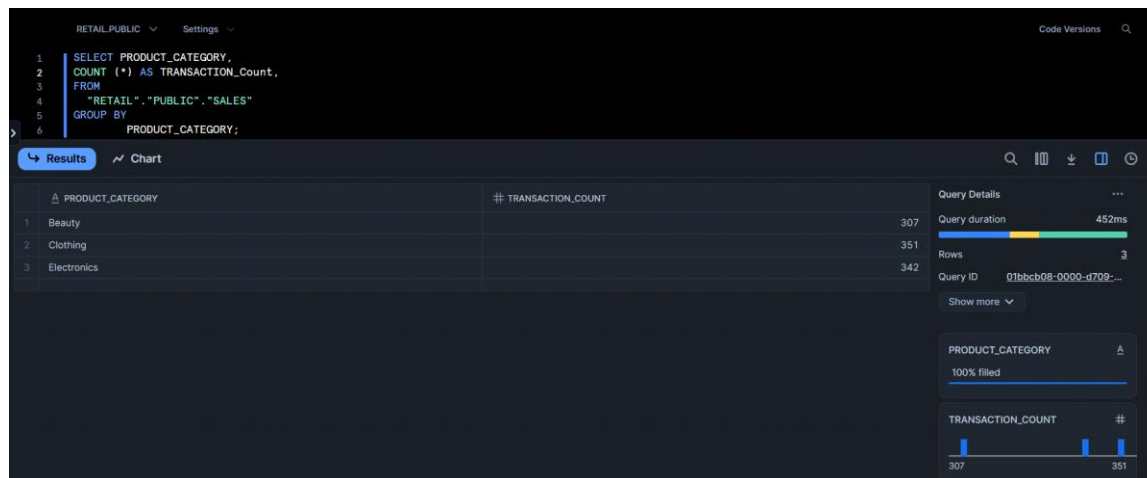
Expected output: Min_Price_per_Unit



- GROUP BY Statement**

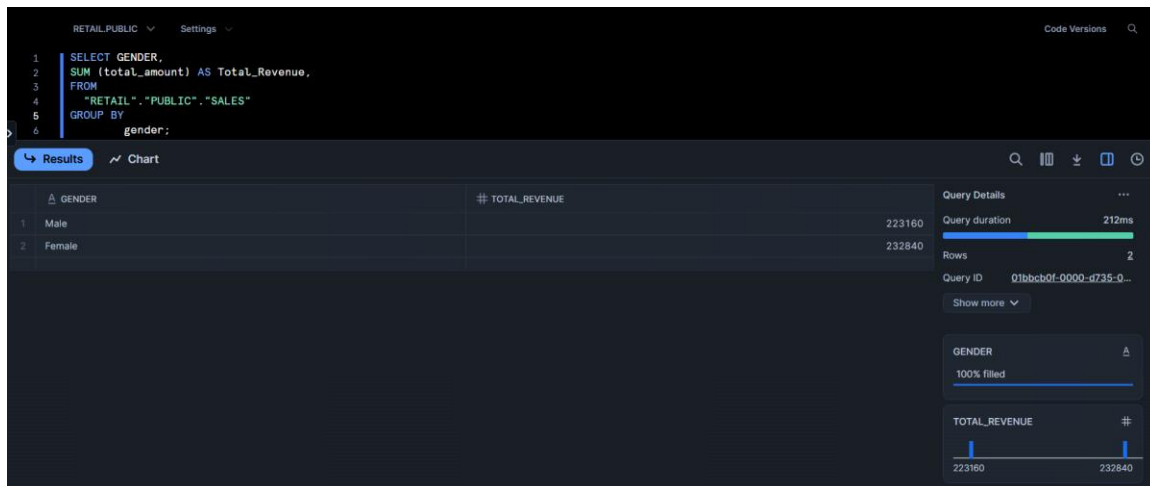
Q15. Find the number of transactions per Product Category.

Expected output: Product Category, Transaction_Count



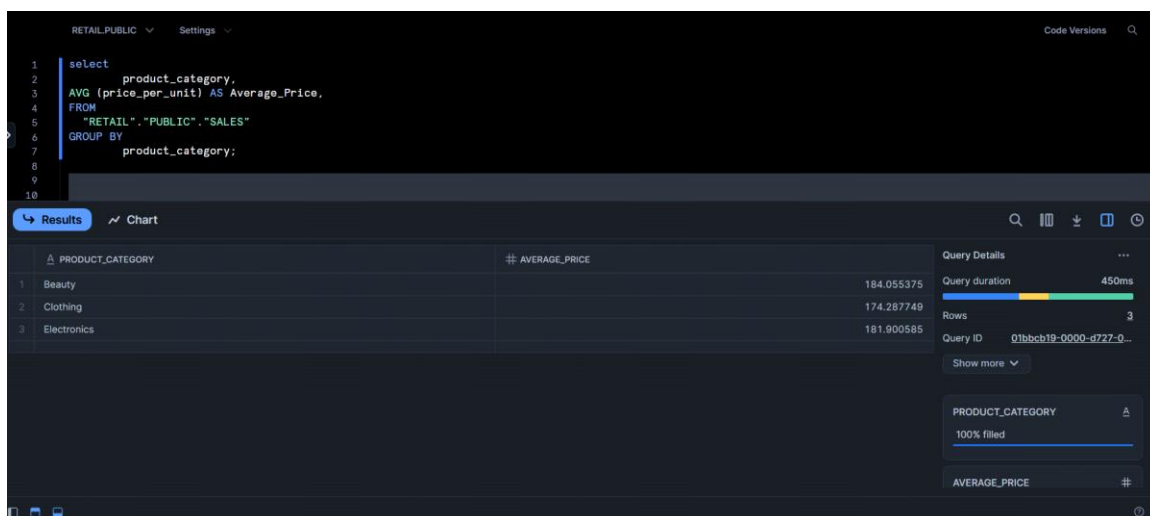
Q16. Find the total revenue (Total Amount) per gender.

Expected output: Gender, Total_Revenue



Q17. Find the average Price per Unit per product category.

Expected output: Product Category, Average_Price



- **HAVING Clause**

Q18. Find the total revenue per product category where total revenue is greater than 10,000.

Expected output: Product Category, Total_Revenue

RETAIL_PUBLIC Settings Code Versions

```

1 select
2   product_category,
3   SUM(total_amount) AS Total_Revenue,
4
5 FROM
6   "RETAIL"."PUBLIC"."SALES"
7 GROUP BY
8   product_category
9 HAVING
10  total_revenue > 10000;

```

Results Chart

	PRODUCT_CATEGORY	# TOTAL_REVENUE
1	Beauty	143515
2	Clothing	155580
3	Electronics	156905

Query Details

Query duration 233ms

Rows 3

Query ID 01bbcb38-0000-d732-

Show more

PRODUCT_CATEGORY 100% filled

TOTAL_REVENUE

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

RETAIL_PUBLIC Settings Code Versions

```

1 select
2   product_category,
3   AVG(quantity) AS Average_Quantity,
4
5 FROM
6   "RETAIL"."PUBLIC"."SALES"
7 GROUP BY
8   product_category
9 HAVING
10  average_quantity > 2;

```

Results Chart

	PRODUCT_CATEGORY	# AVERAGE_QUANTITY
1	Beauty	2.511401
2	Clothing	2.547009
3	Electronics	2.482456

Query Details

Query duration 512ms

Rows 3

Query ID 01bbcb3e-0000-d725-0...

Show more

PRODUCT_CATEGORY 100% filled

AVERAGE_QUANTITY

- **CASE Statement**

Q20. Display a column called Spending_Level that shows 'High' if Total Amount > 1000, otherwise 'Low'.

Expected output: Transaction ID, Total Amount, Spending_Level

RETAIL.PUBLIC Settings Code Versions

```

1 select
2     TRANSACTION_ID,
3     TOTAL_AMOUNT,
4     CASE
5         WHEN TOTAL_AMOUNT > 1000 THEN 'High'
6         ELSE 'Low'
7     END AS Spending_Level
8 FROM
9     "RETAIL"."PUBLIC"."SALES";
10

```

Results Chart

#	TRANSACTION_ID	TOTAL_AMOUNT	SPENDING_LEVEL
1	1	150	Low
2	2	1000	Low
3	3	30	Low
4	4	500	Low
5	5	100	Low
6	6	30	Low
7	7	50	Low
8	8	100	Low
9	9	600	Low
10	10	200	Low

Query Details

- Query duration: 130ms
- Rows: 1K
- Query ID: 01bbcb47-0000-d732-...

TRANSACTION_ID #

Q21. Display a new column called Age_Group that labels customers as:

- 'Youth' if Age < 30
- 'Adult' if Age is between 30 and 59
- 'Senior' if Age >= 60

Expected output: Customer ID, Age, Age_Group

RETAIL.PUBLIC Settings Code Versions

```

1 select
2     CUSTOMER_ID,
3     AGE,
4     CASE
5         WHEN AGE BETWEEN 30 AND 59 THEN 'ADULT'
6         WHEN AGE >= 60 THEN 'SENIOR'
7         ELSE 'YOUTH'
8     END AS Age_Group
9 FROM
10     "RETAIL"."PUBLIC"."SALES";
11
12
13
14
15
16

```

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

Query Details

- Query duration: 88ms
- Rows: 1K
- Query ID: 01bbcb50-0000-d735-...

