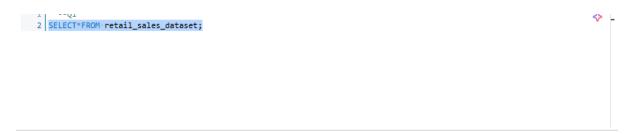
Question 1:



Raw r	esults v +					Q70	[] ×
	1 ² ₃ Transcation ID	⊟ Date	ABC Customer ID	△B _C Gender	1 ² ₃ Age	△B Product Category	1 ² 3 Q
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	
4	4	2023-05-21	CUST004	Male	37	Clothing	
5	5	2023-05-06	CUST005	Male	30	Beauty	
6	6	2023-04-25	CUST006	Female	45	Beauty	
7	4	2022 02 12	CHCTOOT		**	0.0.	•

Question 2:

```
4 SELECT `Transcation ID`,

5 `Date`,

6 `Customer ID`

7 FROM retail_sales_dataset;

8
```

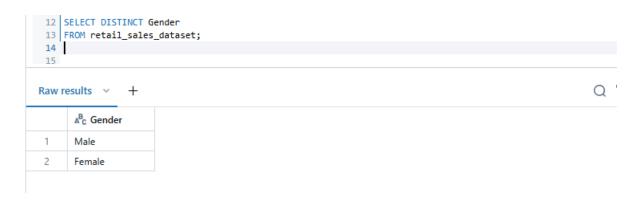


Question 3:

3

Beauty

Question 4:



Question 5:

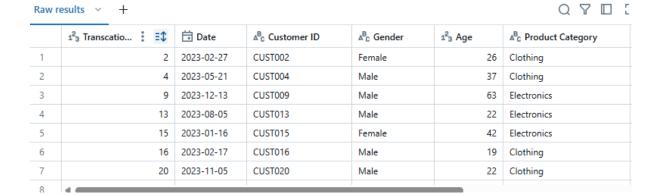
Raw results v +

```
15 SELECI* FROM retail_sales_dataset
16 WHERE Age>40;
18
                                                                                                                    Q 7 D [
```

	123 Transcation ID	Date Date	△BC Customer ID	△B _C Gender	1 ² ₃ Age	A ^B C Product Category
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
4	9	2023-12-13	CUST009	Male	63	Electronics
5	10	2023-10-07	CUST010	Female	52	Clothing
5	14	2023-01-17	CUST014	Male	64	Clothing
7	15	2023-01-16	CUST015	Female	42	Electronics

Question 6:

```
18 | SELECT*FROM retail_sales_dataset
19 | WHERE 'Price per unit' BETWEEN 100 AND 500;
 20
21
```



Question 7:

```
SELECT*FROM retail_sales_dataset

WHERE `Product Category` = 'Beauty' OR `Product Category` = 'Electronics'

23
24
```

Q 7 D [

QVD

Raw results v +

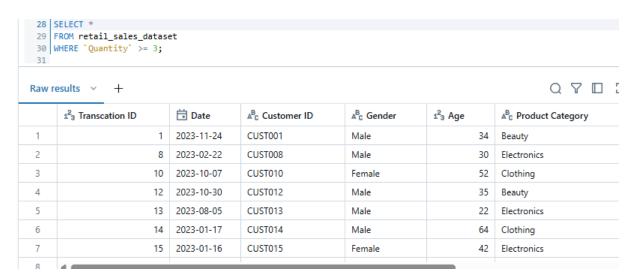
	123 Transcation ID	⊟ Date	△B Customer ID	△B _C Gender	1 ² ₃ Age	${\tt A}^{\tt B}_{\tt C}$ Product Category
1	1	2023-11-24	CUST001	Male	34	Beauty
2	3	2023-01-13	CUST003	Male	50	Electronics
3	5	2023-05-06	CUST005	Male	30	Beauty
4	6	2023-04-25	CUST006	Female	45	Beauty
5	8	2023-02-22	CUST008	Male	30	Electronics
6	9	2023-12-13	CUST009	Male	63	Electronics
7	12	2023-10-30	CUST012	Male	35	Beauty

Question 8:

```
24 SELECT *
25 FROM retail_sales_dataset
26 WHERE `Product Category` NOT IN ('Clothing');
27
```

	1 ² ₃ Transcation ID	Date Date	△B Customer ID	△B Gender	1 ² 3 Age	△B Product Category
1	1	2023-11-24	CUST001	Male	34	Beauty
2	3	2023-01-13	CUST003	Male	50	Electronics
3	5	2023-05-06	CUST005	Male	30	Beauty
1	6	2023-04-25	CUST006	Female	45	Beauty
5	8	2023-02-22	CUST008	Male	30	Electronics
,	9	2023-12-13	CUST009	Male	63	Electronics
7	12	2023-10-30	CUST012	Male	35	Beauty

Question 9:



Question 10:

```
32 SELECT COUNT(*) AS total_transactions
33 FROM retail sales dataset:

Raw results 

+

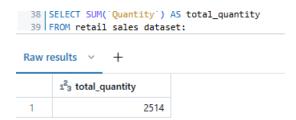
1<sup>2</sup><sub>3</sub> total_transactions

1 1000
```

Question 11:



Question 12:



Question 13:

```
41 SELECT MAX(`Total Amount`) AS max_total_amount
42 FROM retail sales dataset:

Raw results 

+

1<sup>2</sup><sub>3</sub> max_total_amount

1 2000
```

Question 14:

```
44 SELECT MIN(`Price Per Unit`) AS min_price_per_unit
45 FROM retail sales dataset:

Raw results 

+

1<sup>2</sup><sub>3</sub> min_price_per_unit

1 25
```

Question 15:

```
47 SELECT

48 COUNT(DISTINCT `Transcation ID`) AS transaction_count,

49 Product Category`

50 FROM retail_sales_dataset

51 GROUP BY `Product Categorv`:
```

	123 transaction_count	△B Product Category
1	351	Clothing
2	342	Electronics
3	307	Beauty

Question 16:

```
SELECT
SUM(`Total Amount`) AS total_revenue,
'Gender`
FROM retail_sales_dataset
GROUP BY `Gender`:
```

Raw results v +

	1 ² ₃ total_revenue	△B Gender
1	223160	Male
2	232840	Female

Question 17:

```
59 | SELECT
60 | AVG(`Price Per Unit`) | AS average_price,
61 | `Product Category`|
62 | FROM retail_sales_dataset
63 | GROUP BY `Product Category`:
```

Raw results v +

	1.2 average_price	△B Product Category
1	174.28774928774928	Clothing
2	181.90058479532163	Electronics
3	184.05537459283389	Beauty

Question 18:

```
65 SELECT
66 SUM(`Total Amount`) AS total_revenue,
67 `Product Category`
68 FROM retail_sales_dataset
69 GROUP BY `Product Category`
70 HAVING SUM(`Total Amount`) > 1000:
```

	123 total_revenue	$\mathbb{A}^{\mathbb{B}}_{\mathbb{C}}$ Product Category
1	155580	Clothing
2	156905	Electronics
3	143515	Beauty

Question 19:

```
72 SELECT
73 AVG(`Quantity`) AS average_quantity,
74 `Product Category`
75 FROM retail_sales_dataset
76 GROUP BY `Product Category`
77 HAVING AVG(`Quantitv`) > 2:
```

Raw results v +

	1.2 average_quantity	△B _C Product Category
1	2.547008547008547	Clothing
2	2.482456140350877	Electronics
3	2.511400651465798	Beauty

Question 20:

```
79 WITH customer_spend AS (
80 SELECT
81 'Customer ID',
82 SUM('Total amount') AS total_spent
83 FROM retail_sales_dataset
84 GROUP BY 'Customer ID'
85 )
86 SELECT
```

```
8/ COUNI(*) AS transaction_count,

88 CASE

89 WHEN total_spent > 1000 THEN 'High'

90 ELSE 'Low'

91 END AS spending_level

92 FROM customer_spend

93 GROUP BY

CASE

94 WHEN total_spent > 1000 THEN 'High'

95 ELSE 'Low'

97 END:
```

	1 ² ₃ transaction_count	△Bc spending_level
1	847	Low
2	153	High

Question 21:

```
92 SELECT
93 'Customer ID',
'Age',
95 CASE
96 WHEN 'Age' < 30 THEN 'Youth'
97 WHEN 'Age' BETWEEN 30 AND 59 THEN 'Adult'
98 ELSE 'Senior'
99 END AS age_group
100 FROM retail sales dataset:
```

	A ^B C Customer ID	1 ² ₃ Age	$\mathbb{A}^{\mathbb{B}}_{\mathbb{C}}$ 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
7			