

Q1

```
1 -----
2 --Q1 Display all columns for all transactions.
3 --Expected output : ALL column
4
5 SELECT*
6 FROM practical1.dataset.retail_sales;
7
8 -----
9
10 --Q2 Display the only the transaction ID ,Date , and Customer ID for all records
11 --Expected output : Transaction ID ,Date ,Customer ID
12
13
14 -----
15
16 SELECT transaction_id,
17        date,
18        customer_id
19 --
```

→ Results

Chart

🔍 📄 ⬇️ 📋 🕒

	# TRANSACTION_ID	🕒 DATE	🔗 CUSTOMER_ID	🔗 GENDER	# AGE	🔗 PRODUCT_CATEGORY	# QUANTITY
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 01bfbdbad-000c-b142-0...

Q2

```
10 --Q2 Display the only the transaction ID ,Date , and Customer ID for all records
11 --Expected output : Transaction ID ,Date ,Customer ID
12
13
14 SELECT Transaction_ID,Date,Customer_Id
15 FROM practical1.dataset.retail_sales;
16
17
18
19
20
21
22
23
24 --Q3. Display all the distinct product categories in the dataset.
25 --Expected output :Product.Category
26
27 SELECT DISTINCT product_category
28 FROM practical1.dataset.retail_sales;
29
```

Results Chart

#	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

```
21 --Q3. Display all the distinct product categories in the dataset.
22 --Expected output :Product.Category
23
24 SELECT DISTINCT product_category
25 FROM practical1.dataset.retail_sales;
26
27
28
29
30 --Q4.Display all transactions all the distinct gender values in the dataset .
31
```

Results Chart

#	PRODUCT_CATEGORY
1	Clothing
2	Beauty
3	Electronics

Query Details

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

Q4.

```
30 --Q4.Display all transactions all the distinct gender values in the dataset .
31 --Expected output:Gender
32
33 SELECT DISTINCT Gender
34 FROM practical1.dataset.retail_sales;
35
36
```

Results Chart

#	GENDER
1	Male
2	Female

Query Details

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

Q5

38 --Q5.Display all transactions where the Age is greater than 40 .
39 --Expected output:All columns
40
41
42 SELECT*
43 FROM practical1.dataset.retail_sales
44 WHERE AGE > 40;
45
46
47

Results Chart

	# 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 01bfbca-000c-b14

Q6

48 --Q6.Display all transactions where the price per unit is between 100 and 500.
49 --Expected output:All columns
50
51 SELECT*
52 FROM practical1.dataset.retail_sales
53 WHERE price_per_unit BETWEEN 100 AND 500;
54
55
56
57 Q7.Display all transactions where the product category is either 'Beauty'or 'Electronics'
58 Expected

Results Chart

	# 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 01bfbca-000c-b14

Q7

```

56
57 Q7.Display all transactions where the product category is either 'Beauty' or 'Electronics'
58 Expected
59 output: All Columns
60
61 SELECT*
62 FROM practical1.dataset.retail_sales
63 WHERE product_category IN ('Beauty', 'Electronics');
64

```

Results Chart

	# 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

```

67 Q8.Display all transactions where the Product Category is not 'Clothing'.
68 Expected output: All columns
69
70 SELECT*
71 FROM practical1.dataset.retail_sales
72 WHERE product_category NOT IN('Beauty', 'Electronics');
73
74 -----
75 -----
76 -----

```

Results Chart

	# 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

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

```
78  
79 SELECT*  
80 FROM practical1.dataset.retail_sales  
81 WHERE QUANTITY >=3;  
82  
83  
84  
85 Q10. Count the total number of transactions
```

Results

Chart

	# 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

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

```
78  
79 SELECT*  
80 FROM practical1.dataset.retail_sales  
81 WHERE QUANTITY >=3;  
82  
83  
84  
85 Q10. Count the total number of transactions
```

Results

Chart

	# 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 01bfbce

Q10

76 Q9.Display all transactions where the Quantity is greater than or equal to 3.
77 Expected output:All columns
78
79 SELECT*
80 FROM practical1.dataset.retail_sales
81 WHERE QUANTITY >=3;
82
83
84
85 Q10. Count the total number of transactions

ResultsChart

	# TRANSACTION_ID	🕒 DATE	🔗 CUSTOMER_ID	🔗 GENDER	# AGE	🔗 PRODUCT_CATEGORY	# QUANTIT	Query Details
1	1	2023-11-24	CUST001	Male	34	Beauty		Query duration
2	8	2023-02-22	CUST008	Male	30	Electronics		Rows
3	10	2023-10-07	CUST010	Female	52	Clothing		Query ID 01b

Q11

76 Q9.Display all transactions where the Quantity is greater than or equal to 3.
77 Expected output:All columns
78
79 SELECT*
80 FROM practical1.dataset.retail_sales
81 WHERE QUANTITY >=3;
82
83
84
85 Q10. Count the total number of transactions

ResultsChart

	# TRANSACTION_ID	🕒 DATE	🔗 CUSTOMER_ID	🔗 GENDER	# AGE	🔗 PRODUCT_CATEGORY	# QUANTIT	Query Details
1	1	2023-11-24	CUST001	Male	34	Beauty		Query duration
2	8	2023-02-22	CUST008	Male	30	Electronics		Rows
3	10	2023-10-07	CUST010	Female	52	Clothing		Query ID 01bfdbc

Q12

```

100 Q12.Find the total quantity of products sold .
101 Expected output:Total_Quantity
102
103 SELECT SUM(Quantity) AS Total_Quantity
104 FROM practical1.dataset.retail_sales;

```

Results		Chart		Query Details	
# TOTAL_QUANTITY				Query duration	22ms
1	2514			Rows	1
				Query ID	01bfdbd2-000c-b142-0...

Q13

```

108 Q13.Find the number of transactions per Product Category.
109 Expected output:Max_Total_Amount
110
111 SELECT MAX(Total_Amount)
112 FROM practical1.dataset.retail_sales;
113
114 -----
115
116 --Q14.Find the minimum Price per Product category .
117 Expected output:Min_Price_per_unit
118

```

Results		Chart		Query Details	
# MAX(TOTAL_AMOUNT)				Query duration	30ms
1	2000			Rows	1
				Query ID	01bfdbd4-000c-b142-0...

Q14

```

115
116 --Q14.Find the minimum Price per Product category .
117 --Expected output:Min_Price_per_unit
118
119 SELECT MIN(price_per_unit)
120 FROM practical1.dataset.retail_sales;

```

Results		Chart		Query Details	
# MIN(PRICE_PER_UNIT)				Query duration	4
1	25			Rows	
				Query ID	01bfdbd7-000c-b142

Q15

```

124 --Q15.Find the number of of transactions per Product Category .
125 --Expected output:Product category,Transaction_Count
126
127 SELECT COUNT(product_category)
128 FROM practical1.dataset.retail_sales
129 GROUP BY transaction_id;
130 -----
131
132 --Q16.Find the total revenue (totalAmount) per gender

```

Results

Chart

#	COUNT(PRODUCT_CATEGORY)		Query Details
1		1	Query duration
2		1	Rows
3		1	Query ID 01b
4		1	

Q16

```

131 --Q16.Find the total revenue (totalAmount) per gender .
132 --Expected output:Gender ,Total_Revenue
133
134 SELECT SUM(total_amount)
135 FROM practical1.dataset.retail_sales
136 GROUP BY GENDER ;
137 -----
138 -----
139

```

Results

Chart

#	SUM(TOTAL_AMOUNT)		Query Details
1		223160	Query duration
2		232840	Rows
			Query ID 01bfd9-000c

Q17


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

```
142
143 SELECT AVG (PRICE_PER_UNIT)
144 FROM practical1.dataset.retail_sales
145 GROUP BY product_category;
```

```
146
147 -----
148 -----
```

```
148
149 Q18. Find the toal revenue per product category where total revenue is greater than 10000.
```

Results

Chart

#	AVG (PRICE_PER_UNIT)
1	184.055375
2	174.287749
3	181.900585

Query Details

Query duration

Rows

Query ID 01b

Q18

```
148
149 --Q18. Find the toal revenue per product category where total revenue is greater than 10000.
150 --Expected output :Product Category ,Total_Revenue
```

```
151
152 SELECT Product_category ,SUM (TOTAL_AMOUNT) AS Total_Revenue
153 FROM practical1.dataset.retail_sales
154 GROUP BY product_category
155 HAVING COUNT (total_revenue)>10000;
```

```
156
157 -----
158 -----
```

```
158
159 Q19. Find the total revenue per product category where total revenue is greater than 10000.
```

Results

Chart



Aggregate functions cannot be nested: [SUM(PRACTICAL1.SALES.TOTAL_AMOUNT)] nested in

Query Details

Query duration

Rows

Query ID 01b

Q19

159

--Q19.Find the average quantity per product category where the average is more than 2 .

160

--Expected output:Product category ,Average_Quantity

161

162

SELECT Product_category,AVG(QUANTITY) AS Average_Quantity

163

FROM practical1.dataset.retail_sales

164

GROUP BY PRODUCT_CATEGORY

165

HAVING AVG (Quantity)>2;

166

167

168

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

Results

Chart

	PRODUCT_CATEGORY	AVERAGE_QUANTITY	
1	Beauty	2.511401	
2	Clothing	2.547009	
3	Electronics	2.482456	

Query Details

Query duration

Rows

Query ID

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:

Results

Chart

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

Query

Query

Rows

Query

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
```

Results

Chart



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

Query Details

Query duration

Rows

Query ID **01bfdbe2-000c-b**