

36pm 2025-10-07 7:54pm 2025-10-15 8:38pm Practical 1 2025-10-15 9:03pm +

Worksheets

Practical PUBLIC Settings

1 -- Q1. Display all columns for all transactions.
2 -- Expected output: All columns
3
4 SELECT * FROM retail_practical;
5
6
7
8 -- Q2. Display only the Transaction ID, Date, and Customer ID for all records.
9 -- Expected output: Transaction ID, Date, Customer ID
10
11

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	48	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
10	10	2023-10-07	CUST010	Female	52	Clothing	4	50	200
11	11	2023-02-14	CUST011	Male	23	Clothing	2	50	100
12	12	2023-10-30	CUST012	Male	35	Beauty	3	25	75
13	13	2023-05-25	CUST013	Male	60	Electronics	5	500	2500

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PRACTICAL.PUBLIC Settings

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```
15 FROM retail_practical;
16 -- Q3: Display all the distinct product categories in the dataset.
17 -- Expected output: Product Category
18
19 SELECT DISTINCT(product_category)
20
21 FROM retail_practical;
22
23
```

Results Chart

▲ PRODUCT_CATEGORY

	PRODUCT_CATEGORY
1	Clothing
2	Beauty
3	Electronics

①

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PRACTICALPUBLIC Settings

24 -- Q4. Display all the distinct gender values in the dataset.
25 -- Expected output: Gender
26 --Answer:
27 SELECT DISTINCT(gender)
28 FROM retail_practical;
29
30
31 -- Q5. Display all transactions where the Age is greater than 40.
32 -- Expected output: All columns
33 --Answer:
34 SELECT age, transaction_id

Results Chart

GENDER
Male
Female

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Databases Worksheets

PRACTICAL_1

COFFEE_SHOP INFORMATION_SCHEMA PUBLIC PRACTICAL INFORMATION_SCHEMA PUBLIC WORK

PRACTICAL_1 INFORMATION_SCHEMA Views PUBLIC Tables Cortex Search Services RETAIL_SHOP SALE SALES SNOWFLAKE SNOWFLAKE_LEARNING_DB SNOWFLAKE_SAMPLE_DATA

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PRACTICAL.PUBLIC Settings

```
30 -- Q5. Display all transactions where the Age is greater than 40.
31 -- Expected output: All columns
32 --Answer:
33
34 SELECT age, transaction_id
35
36 FROM retail_practical
37 WHERE age>40;
38
39
40 -- Q6. Display all transactions where the Price per Unit is between 100 and 500.
```

Results Chart

AGE	TRANSACTION_ID
1	50
2	45
3	48
4	63
5	52
6	64
7	42
8	47
9	62
10	50
11	49
12	64

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PRACTICAL.PUBLIC Settings

Open in Workspaces

Code Versions



```
38
39
40 -- Q6. Display all transactions where the Price per Unit is between 100 and 500.
41 -- Expected output: All columns
42 --Answer:
43
44 SELECT price_per_unit, transaction_id
45 FROM retail_practical
46 WHERE price_per_unit > 100 AND price_per_unit < 500;
```

Results Chart

Search Filter Sort

#	PRICE_PER_UNIT	#	TRANSACTION_ID	#
1		300		9
2		300		20
3		300		24
4		300		30
5		300		31
6		300		35
7		300		36
8		300		42
9		300		43
10		300		46
11		300		48
12		300		52
...				

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```
PRACTICAL.PUBLIC  Settings ▾

48
49 -- Q7. Display all transactions where the Product Category is either 'Beauty' or
50 -- 'Electronics'.
51 -- Expected output: All columns
52 --Answer:
53 SELECT transaction_id, product_category
54 FROM retail_practical
55 WHERE product_category = 'Beauty' OR product_category = 'Electronics';
56
57
58 -- Q8. Display all transactions where the Product Category is not 'Clothing'.
59 -- Expected output: All columns
```

→ Results ↗ Chart



PRACTICAL_PUBLIC Settings

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Code Versions



```
50 WHERE product_category = 'Beauty' OR product_category = 'Electronics' ;
51
52 -- Q8. Display all transactions where the Product Category is not "Clothing".
53 -- Expected output: All columns
54 --Answer:
55
56 SELECT transaction_id, product_category
57 FROM retail_practical
58 WHERE NOT product_category = 'Clothing';
59
60
61 -- Q9. Display all transactions where the Quantity is greater than or equal to 3.
62
```

↳ Results ↵ Chart



TRANSACTION_ID

▲ PRODUCT_CATEGORY

1	Beauty
2	Electronics
3	Beauty
4	Beauty
5	Electronics
6	Electronics
7	Electronics
8	Electronics
9	Electronics
10	Electronics
11	Beauty
12	Beauty

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```
-- Q9. Display all transactions where the Quantity is greater than or equal to 3.  
-- Expected output: All columns  
-- Answer:  
SELECT transaction_id, quantity  
FROM retail_practical  
WHERE quantity>=3;  
  
-- Q10. Count the total number of transactions.  
-- Expected output: Total_Transactions
```

Results Chart

TRANSACTION_ID	QUANTITY
1	1
2	8
3	10
4	12
5	13
6	14
7	15
8	16
9	17
10	20
11	23
12	30
	...

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```
74
75
76 -- Q10. Count the total number of transactions.
77 -- Expected output: Total_Transactions
78 -- Answer:
79 SELECT COUNT(transaction_id) AS Total_Transaction
80 FROM retail_practical;
81
82 -- Q11. Find the average Age of customers.
83 -- Expected output: Average_Age
```

↳ Results ↳ Chart

TOTAL_TRANSACTION

1000

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PRACTICALPUBLIC Settings

81 -- Q11. Find the average Age of customers.
82 -- Expected output: Average_Age
83
84
85 SELECT AVG(age) AS Average_Age
86 FROM retail_practical;
87
88
89 -- Q12. Find the total quantity of products sold.
90 -- Expected output: Total_Quantity
91 SELECT SUM(quantity) AS Total_Quantity
92 FROM retail_practical;

Results Chart

AVERAGE_AGE 1 41.392000

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16

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PRACTICAL_PUBLIC Settings

85 SELECT AVG(age) AS Average_Age
86 FROM retail_practical;
87
88 -- Q12. Find the total quantity of products sold.
89 -- Expected output: Total_Quantity
90 SELECT SUM(quantity) AS Total_Quantity
91 FROM retail_practical;
92
93 -- Q13. Find the maximum Total Amount spent in a single transaction.
94 -- Expected output: Max_Total_Amount
95

Results Chart

TOTAL_QUANTITY

TOTAL_QUANTITY	2514
1	2514

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PRACTICALPUBLIC Settings

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```
93
94 -- Q15. Find the maximum Total_Amount spent in a single transaction.
95 -- Expected output: Max_Total_Amount
96 SELECT MAX(total_amount) AS MAX_Total_Amount
97 FROM RETAIL_PRACTICAL;
98
99 -- Q14. Find the minimum Price per Unit in the dataset.
100 -- Expected output: Min_Price_per_Unit
101 SELECT MIN(price_per_unit) AS Min_Price_per_Unit
102 FROM retail_practical;
103
```

↳ Results ↵ Chart

MAX_TOTAL_AMOUNT 2000

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PRACTICAL.PUBLIC Settings

```
96 SELECT MAX(total_amount) AS MAX_Total_Amount
97 FROM RETAIL_PRACTICAL;
98
99 -- Q14. Find the minimum Price per Unit in the dataset.
100 -- Expected output: Min_Price_per_Unit
101 SELECT MIN(price_per_unit) AS Min_Price_per_Unit
102 FROM retail_practical;
103
104
105 -- Q15. Find the number of transactions per Product Category.
106 -- Expected output: Product Category, Transaction_Count
```

↳ Results ✎ Chart

MIN_PRICE_PER_UNIT

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PRACTICAL.PUBLIC Settings Open in Workspaces Code Versions

```
103
104
105 -- Q15. Find the number of transactions per Product Category.
106 -- Expected output: Product Category, Transaction_Count
107 SELECT COUNT(transaction_id) AS Transaction_Count, product_category
108 FROM retail_practical
109 GROUP BY product_category;
110
111
112 -- Q16. Find the total revenue (Total Amount) per gender.
113 -- Expected output: Gender, Total_Revenue
```

↳ Results ↳ Chart

# TRANSACTION_COUNT	PRODUCT_CATEGORY
1	307 Beauty
2	351 Clothing
3	342 Electronics

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PRACTICAL.PUBLIC Settings

189 GROUP BY product_category;
190
191
192 -- Q16. Find the total revenue (Total_Amount) per gender.
193 -- Expected output: Gender, Total_Revenue
194 SELECT SUM(total_amount) AS Total_Revenue, gender
195
196 FROM retail_practical
197 GROUP BY gender;

Open in Workspaces Code Versions

Results Chart

#	TOTAL_REVENUE	GENDER
1	223160	Male
2	232840	Female

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```
119
120 -- Q17. Find the average Price per Unit per product category.
121 -- Expected output: Product_Catgegory, Average_Price
122 SELECT AVG(price_per_unit) AS Average_Price, product_category
123 FROM retail_practical
124 GROUP BY product_category;
125
126
127 -- Q18. Find the total revenue per product category where total revenue is greater than
128 -- 10,000.
129 -- Expected output: Product_Catgegory, Total_Revenue.
```

↳ Results ↳ Chart

#	AVERAGE_PRICE	PRODUCT_CATEGORY
1	184.055375	Beauty
2	174.287749	Clothing
3	181.900585	Electronics

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PRACTICAL.PUBLIC Settings

```
151 -- Expected output: Transaction ID, Total Amount, Spending_Level
152 SELECT transaction_id, total_amount,
153
154 CASE
155 WHEN total_amount >1000 THEN 'High'
156 ELSE 'Low'
157 END AS Spending_Level
158 FROM retail_practical;
159
160
161 -- Q21. Display a new column called Age_Group that labels customers as:
```

Results Chart

# TRANSACTION_ID	# TOTAL_AMOUNT	A 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
11	11	100 Low
12	12	75 Low
13	13	4500 Low

Cloud

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PRACTICAL.PUBLIC Settings Open in Workspaces Code Versions

```
166 SELECT age, customer_id,
167
168 CASE
169 WHEN age<30 THEN 'Youth'
170 --WHEN age BETWEEN 30 AND 59 THEN 'Adult'
171 WHEN age>=60 THEN 'Senior'
172
173 END AS Age_Group
174 FROM retail_practical;
```

↳ Results ↳ Chart

#	AGE	CUSTOMER_ID	AGE_GROUP
1		CUST001	null
2		CUST002	Youth
3		CUST003	null
4		CUST004	null
5		CUST005	null
6		CUST006	null
7		CUST007	null
8		CUST008	null
9		CUST009	Senior
10		CUST010	null
11		CUST011	Youth
12		CUST012	null
13		CUST013	null