

## PRATCICAL 1 :Sql basic syntax

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### Question 1

The screenshot shows the Snowflake SQL Editor interface. The query editor contains the following SQL code:

```
1 -----  
2 --Q1. Display all columns for all transactions.  
3  
4 SELECT*  
5 FROM RETAIL_SHOP.SHOP_SALES.RETAIL_SALES_DATASET;  
6  
7 -----  
8 --Q2. Display only the Transaction ID,Date,and Customer ID for all records.
```

The results pane shows the output of the first query, displaying 1,000 rows in a table format. The table has the following columns: TRANSACTION\_ID, DATE, CUSTOMER\_ID, GENDER, AGE, PRODUCT\_CATEGORY, and QUANTITY. The first three rows are visible:

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

### Question 2

The screenshot shows the Snowflake SQL Editor interface. The query editor contains the following SQL code:

```
8 --Q2. Display only the Transaction ID,Date,and Customer ID for all records.  
9  
10 SELECT transaction_id,  
11 date,  
12 customer_id  
13 FROM RETAIL_SHOP.SHOP_SALES.RETAIL_SALES_DATASET;  
14  
15 -----  
16 --? SELECT DISTINCT Statement
```

The results pane shows the output of the second query, displaying 3 rows in a table format. The table has the following columns: PRODUCT\_CATEGORY. The first three rows are visible:

#	PRODUCT_CATEGORY
1	Clothing
2	Beauty
3	Electronics

### Question 3

The screenshot shows the Snowflake web interface. The SQL editor contains the following query:

```
--2. SELECT DISTINCT Statement
--Q3. Display all the distinct product categories in the dataset

SELECT DISTINCT product_category
FROM RETAIL_SHOP.SHOP_SALES.RETAIL_SALES_DATASET;

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

```

The results pane shows 3 rows:

Table	PRODUCT_CATEGORY
1	Clothing
2	Beauty
3	Electronics

The Windows taskbar at the bottom shows the search bar with the text "Type here to search".

### Question 4

The screenshot shows the Snowflake web interface. The SQL editor contains the following query:

```
--3. WHERE Clause

SELECT DISTINCT gender
FROM RETAIL_SHOP.SHOP_SALES.RETAIL_SALES_DATASET;

-----

```

The results pane shows 2 rows:

Table	GENDER
1	Male
2	Female

The Windows taskbar at the bottom shows the search bar with the text "Search - Rock River Falls, Michigan".

### Question 5

Screenshot of the Snowflake web interface showing a SQL query and its results.

The SQL query is:

```
--3. WHERE Clause
--Q5. Display all transactions where the Age is greater than 40.
SELECT*
FROM RETAIL_SHOP.SHOP_SALES.RETAIL_SALES_DATASET
WHERE AGE>40;
```

The results table shows 534 rows. The columns are: TRANSACTION\_ID, DATE, CUSTOMER\_ID, GENDER, AGE, PRODUCT\_CATEGORY, and QUANTITY.

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

## Question 6

Screenshot of the Snowflake web interface showing a SQL query and its results.

The SQL query is:

```
--Q6. Display all transactions where the Price per Unit is between 100 and 500.
SELECT*
FROM RETAIL_SHOP.SHOP_SALES.RETAIL_SALES_DATASET
WHERE price_per_unit BETWEEN 100 AND 500;
```

The results table shows 396 rows. The columns are: TRANSACTION\_ID, DATE, CUSTOMER\_ID, GENDER, AGE, PRODUCT\_CATEGORY, and QUANTITY.

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

## Question 7

Screenshot of the Snowflake web interface showing a SQL query and its results. The query is:

```
WHERE price_per_unit BETWEEN 100 AND 500;
-- Q7. Display all transactions where the Product Category is either 'Beauty' or 'electronics'.
SELECT*
FROM RETAIL_SHOP.SHOP_SALES.RETAIL_SALES_DATASET
WHERE product_category = 'beauty' OR product_category = 'eletronics';
-- Q8. Display all transactions where the Product Category is not 'Clothing'.
```

The results pane shows 0 rows and 26ms execution time. The table structure is:

TRANSACTION_ID	DATE	CUSTOMER_ID	GENDER	AGE	PRODUCT_CATEGORY	QUANTITY
----------------	------	-------------	--------	-----	------------------	----------

Query produced no results

## Question 8

Screenshot of the Snowflake web interface showing a SQL query and its results. The query is:

```
-- Q8. Display all transactions where the Product Category is not 'Clothing'.
SELECT*
FROM RETAIL_SHOP.SHOP_SALES.RETAIL_SALES_DATASET
WHERE product_category <> 'clothing';
-- Q9. Display all transactions where the Quantity is greater than or equal to 3.
```

The results pane shows 1,000 rows and 33ms execution time. The table structure is:

#	TRANSACTION_ID	DATE	CUSTOMER_ID	GENDER	AGE	PRODUCT_CATEGORY	QUANTITY
1	1	2023-11-24	CUST001	Male	34	Beauty	3
2	2	2023-02-27	CUST002	Female	28	Clothing	2
3	3	2023-01-13	CUST003	Male	50	Electronics	1

## Question 9

2025-10-15 9:20am

app.snowflake.com/af-south-1.aws/qf34874/#/workspaces/ws/USER%24/PUBLIC/DEFAULT%24

My W... Worksheets Untitled.sql Load sample data from AWS S3 with SQL 2025-10-15 9:20am Untitled 1.sql

ACCOUNTADMIN COMPUTE\_WH (X-Small) Choose database

```
51 -----
52 -- 09. Display all transactions where the Quantity is greater than or equal to 3.
53
54 SELECT*
55 FROM RETAIL_SHOP.SHOP_SALES.RETAIL_SALES_DATASET
56 WHERE quantity >= 3;
57
58 -----
59 -- 4. Aggregate Functions
60
```

Results (1 minute ago)

Table Chart 1,000 rows 33ms

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

Type here to search

21°C Friday 2025/10/17

### Question 10

2025-10-15 9:20am

app.snowflake.com/af-south-1.aws/qf34874/#/workspaces/ws/USER%24/PUBLIC/DEFAULT%24

My W... Worksheets Untitled.sql Load sample data from AWS S3 with SQL 2025-10-15 9:20am Untitled 1.sql

ACCOUNTADMIN COMPUTE\_WH (X-Small) Choose database

```
57 -----
58 -- 4. Aggregate Functions
59 --Q10. Count the total number of transactions.
60
61 SELECT COUNT(*) AS total_transaction
62 FROM RETAIL_SHOP.SHOP_SALES.RETAIL_SALES_DATASET;
63
64 -----
65 --Q11. Find the average Age of customers.
66
```

Results (just now)

Table Chart 1 row 33ms

#	TOTAL_TRANSACTION
1	1000

Type here to search

21°C Friday 2025/10/17

### Question 11

app.snowflake.com/af-south-1.aws/qf34874/#/workspaces/ws/USER%24/PUBLIC/DEFAULT%24

Worksheets

Search for files

- > Owned
- > Shared with you
- > Scratchpad
- 2025-10-15 9:2...

Database Explorer

Objects

Data Products

Search

Filter

- > RETAIL\_SHOP
- > SNOWFLAKE
- > SNOWFLAKE\_LE...
- > SNOWFLAKE\_SA...
- > USER\$LARVEN

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Screenshot of the Snowflake web interface showing a SQL query and its results.

The SQL query is:

```
SELECT SUM(quantity) AS total_quantity
FROM RETAIL_SHOP.SHOP_SALES.RETAIL_SALES_DATASET;
--Q13. Find the maximum Total Amount spent in a single transaction.
SELECT MAX(total_amount) AS max_total_amount
FROM RETAIL_SHOP.SHOP_SALES.RETAIL_SALES_DATASET;
--Q14. Find the minimum Price per Unit in the dataset.
```

The results show a single row with the value 2000 for the MAX\_TOTAL\_AMOUNT.

MAX_TOTAL_AMOUNT
2000

### Question 14

Screenshot of the Snowflake web interface showing a SQL query and its results.

The SQL query is:

```
FROM RETAIL_SHOP.SHOP_SALES.RETAIL_SALES_DATASET;
--Q14. Find the minimum Price per Unit in the dataset.
SELECT MIN(price_per_unit) AS min_price_per_unit
FROM RETAIL_SHOP.SHOP_SALES.RETAIL_SALES_DATASET;
--Q15. Find the number of transactions per Product Category.
```

The results show a single row with the value 25 for the MIN\_PRICE\_PER\_UNIT.

MIN_PRICE_PER_UNIT
25

### Question 15

2025-10-15 9:20am

app.snowflake.com/af-south-1.aws/qf34874/#/workspaces/ws/USER%24/PUBLIC/DEFAULT%24

My W... Untitled.sql Load sample data from AWS S3 with SQL 2025-10-15 9:20am Untitled 1.sql

ACCOUNTADMIN COMPUTE\_WH (X-Small) Choose database

Worksheets

Search for files

Owned

Shared with you

Scratchpad

2025-10-15 9:2...

Database Explorer

Objects Data Products

Search

Filter

RETAIL\_SHOP

SNOWFLAKE

SNOWFLAKE\_LE...

SNOWFLAKE\_SA...

USERSLARVEN

83

84 --5. GROUP BY Statement

85 --Q15. Find the number of transactions per Product Category.

86

87

88 SELECT product\_category,

89 COUNT(transaction\_id) AS transaction\_count

90 FROM RETAIL\_SHOP.SHOP\_SALES.RETAIL\_SALES\_DATASET

91 GROUP BY product\_category;

Results (just now)

Table Chart

3 rows 29ms

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

Type here to search

21°C Friday 2025/10/17

## Question 16

2025-10-15 9:20am

app.snowflake.com/af-south-1.aws/qf34874/#/workspaces/ws/USER%24/PUBLIC/DEFAULT%24

My W... Untitled.sql Load sample data from AWS S3 with SQL 2025-10-15 9:20am Untitled 1.sql

ACCOUNTADMIN COMPUTE\_WH (X-Small) Choose database

Worksheets

Search for files

Owned

Shared with you

Scratchpad

2025-10-15 9:2...

Database Explorer

Objects Data Products

Search

Filter

RETAIL\_SHOP

SNOWFLAKE

SNOWFLAKE\_LE...

SNOWFLAKE\_SA...

USERSLARVEN

92

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

94

95 SELECT gender,

96 SUM(quantity \* price\_per\_unit) total\_revenue

97 FROM RETAIL\_SHOP.SHOP\_SALES.RETAIL\_SALES\_DATASET

98 GROUP BY gender;

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

Results (just now)

Table Chart

2 rows 34ms

	GENDER	# TOTAL_REVENUE
1	Male	223160
2	Female	232840

Type here to search

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## Question 17



app.snowflake.com/af-south-1.aws/qf34874/#/workspaces/ws/USER%24/PUBLIC/DEFAULT%24

My W... Worksheets Untitled.sql Load sample data from AWS S3 with SQL 2025-10-15 9:20am Untitled 1.sql

ACCOUNTADMIN COMPUTE\_WH (X-Small) Choose database

```
--
98
99
100
101
102
103
104
105
SELECT product_category,
      AVG(price_per_unit) AS average_price
FROM RETAIL_SHOP.SHOP_SALES.RETAIL_SALES_DATASET
GROUP BY product_category;
```

Results (just now)

Table	Chart	3 rows	27ms
PRODUCT_CATEGORY	# AVERAGE_PRICE		
1 Beauty		184.055375	
2 Clothing		174.287749	
3 Electronics		181.900585	

Type here to search

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## Question 18

app.snowflake.com/af-south-1.aws/qf34874/#/workspaces/ws/USER%24/PUBLIC/DEFAULT%24

My W... Worksheets Untitled.sql Load sample data from AWS S3 with SQL 2025-10-15 9:20am Untitled 1.sql

ACCOUNTADMIN COMPUTE\_WH (X-Small) Choose database

```
--
106
107
108
109
110
111
112
113
--6. HAVING Clause
--Q18. Find the total revenue per product category where total revenue is greater than
SELECT product_category,
      SUM(quantity * price_per_unit) AS total_revenue
FROM RETAIL_SHOP.SHOP_SALES.RETAIL_SALES_DATASET
GROUP BY product_category
HAVING total_revenue > 10000;
```

Results (just now)

Table	Chart	3 rows	24ms
PRODUCT_CATEGORY	# AVERAGE_PRICE		
1 Beauty		184.055375	
2 Clothing		174.287749	
3 Electronics		181.900585	

Type here to search

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## Question 19

app.snowflake.com/af-south-1.aws/qf34874/#/workspaces/ws/USER%24/PUBLIC/DEFAULT%24

My W... Worksheets Search for files Owned Shared with you Scratchpad 2025-10-15 9:2... Database Explorer Objects Data Products Search Filter RETAIL\_SHOP SNOWFLAKE SNOWFLAKE\_LE... SNOWFLAKE\_SA... USER\$LARVEN

```
116
117
118 SELECT product_category,
119        AVG(quantity) AS avaraga_quantity
120 FROM RETAIL_SHOP.SHOP_SALES.RETAIL_SALES_DATASET
121 GROUP BY product_category
122 HAVING AVG(quantity) > 2;
123
--7. CASE Statement
```

Results (just now) Table Chart 3 rows 40ms

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

Type here to search

21°C 19:55 Friday 2025/10/17

## Question 20

app.snowflake.com/af-south-1.aws/qf34874/#/workspaces/ws/USER%24/PUBLIC/DEFAULT%24

My W... Worksheets Search for files Owned Shared with you Scratchpad 2025-10-15 9:2... Database Explorer Objects Data Products Search Filter RETAIL\_SHOP SNOWFLAKE SNOWFLAKE\_LE... SNOWFLAKE\_SA... USER\$LARVEN

```
124
125 --Q20. Display a column called Spending_Level that shows 'High' if Total Amount > 1000, otherwise 'Low'.
126
127 SELECT transaction_id,
128        total_amount,
129        CASE
130          WHEN total_amount > 1000 THEN 'High'
131          ELSE 'Low'
132        END AS spending_level
133 FROM RETAIL_SHOP.SHOP_SALES.RETAIL_SALES_DATASET;
```

Results (just now) Table Chart 1,000 rows 35ms

	# TRANSACTION_ID	# TOTAL_AMOUNT	SPENDING_LEVEL
1		150	Low
2		1000	Low
3		30	Low
4		500	Low

Type here to search

21°C 19:57 Friday 2025/10/17

## Question 21

app.snowflake.com/af-south-1.aws/qf34874/#/workspaces/ws/USER%24/PUBLIC/DEFAULT%24

My W... Home Untitled.sql Load sample data from AWS S3 with SQL 2025-10-15 9:20am Untitled 1.sql

Worksheets Search for files Owned Shared with you Scratchpad 2025-10-15 9:2...

Database Explorer Objects Data Products Search Filter RETAIL\_SHOP SNOWFLAKE SNOWFLAKE\_LE... SNOWFLAKE\_SA... USER\$LARVEN

```
132 FROM RETAIL_SHOP.SHOP_SALES.RETAIL_SALES_DATASET1;
133
134 -----
135 --Q21. Display a new column called Age_Group that labels customers as:
136 -- 'Youth' if Age < 30
137 -- 'Youth' if Age < 30
138 -- 'Senior' if Age >= 60
139 Ctrl+I to generate
140 SELECT customer_id,
141        age,
142        CASE
143          WHEN age < 30 THEN 'Youth'
144          WHEN age BETWEEN 30 AND 59 THEN 'Adult'
145          WHEN age >= 60 THEN 'Senior'
146        END AS age_group
147 FROM RETAIL_SHOP.SHOP_SALES.RETAIL_SALES_DATASET;
```

Results (just now)

Table Chart 1,000 rows 28ms

	CUSTOMER_ID	AGE	AGE_GROUP
1	CUST001	34	Adult

Type here to search

21°C 19:59 Friday 2025/10/17