

## Karabo Mohlahlo

### BrightLight Data Analytics Coding Practical

#### Practical 1: SQL Fundamentals (Snowflake-Basic SQL Syntax)

##### Question 1:

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

```
1  
2  
3  
4 SELECT *  
5 FROM BRIGHT_DATASET.SALES_DATA.RETAIL_SALES_DATASETS;  
6  
7 Q1. Display all columns for all transactions.  
8 Expected output: All columns  
9  
10 SELECT *  
11 FROM BRIGHT_DATASET.SALES_DATA.RETAIL_SALES_DATASETS;
```

The results pane displays a table with 9 rows and 8 columns:

#	TRANSACTION_ID	DATE	CUSTOMER_ID	GENDER	AGE	PRODUCT_CATEGORY	# QUANTI
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	7	2023-03-13	CUST007	Male	46	Clothing	
8	8	2023-02-22	CUST008	Male	30	Electronics	
9	9	2023-12-13	CUST009	Male	63	Electronics	

Query Details: Query duration 58ms, Rows 1K, Query ID 01bfc003-000c-b0ed-9...

##### Question 2:

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

```
9  
10 SELECT *  
11 FROM BRIGHT_DATASET.SALES_DATA.RETAIL_SALES_DATASETS;  
12  
13 Q2. Display only the Transaction ID, Date, and Customer ID for all records.  
14 Expected output: Transaction ID, Date, Customer ID  
15  
16 SELECT TRANSACTION_ID,  
17 DATE,  
18 CUSTOMER_ID  
19 FROM BRIGHT_DATASET.SALES_DATA.RETAIL_SALES_DATASETS;
```

The results pane displays a table with 9 rows and 3 columns:

#	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
5	5	2023-05-06	CUST005
6	6	2023-04-25	CUST006
7	7	2023-03-13	CUST007
8	8	2023-02-22	CUST008
9	9	2023-12-13	CUST009

Query Details: Query duration 50ms, Rows 1K, Query ID 01bfc007-000c-b0ed-9...

##### Question 3:

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ACCOUNTADMIN COMPUTE\_WH (X-Small) Share

No Database selected Settings

Open in Workspaces Code Versions

Q3. Display **all** the **distinct** product **categories** in the dataset.  
Expected output: Product Category

```
SELECT DISTINCT PRODUCT_CATEGORY
FROM BRIGHT_DATASET.SALES_DATA.RETAIL_SALES_DATASETS;
```

Results Chart

PRODUCT_CATEGORY
1 Clothing
2 Beauty
3 Electronics

Query Details

Query duration 26ms

Rows 3

Query ID 01bfc01a-000c-b0ed-9...

Show more

PRODUCT\_CATEGORY

100% filled

Question 4:

2025-10-02 6:14am Brightlearn DAT Practical 1

ACCOUNTADMIN COMPUTE\_WH (X-Small) Share

No Database selected Settings

Open in Workspaces Code Versions

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

```
SELECT DISTINCT GENDER
FROM BRIGHT_DATASET.SALES_DATA.RETAIL_SALES_DATASETS;
```

Results Chart

GENDER
1 Male
2 Female

Query Details

Query duration 27ms

Rows 2

Query ID 01bfc01c-000c-b0ed-9...

Show more

GENDER

100% filled

Question 5:

2025-10-02 6:14am Brightlearn DAT Practical 1

ACCOUNTADMIN COMPUTE\_WH (X-Small) Share

No Database selected Settings

Open in Workspaces Code Versions

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

```
SELECT *
FROM BRIGHT_DATASET.SALES_DATA.RETAIL_SALES_DATASETS
WHERE AGE > 40;
```

Results Chart

#	TRANSACTION_ID	DATE	CUSTOMER_ID	GENDER	AGE	PRODUCT_CATEGORY	QUANTITY
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	
6	14	2023-01-17	CUST014	Male	64	Clothing	
7	15	2023-01-16	CUST015	Female	42	Electronics	
8	18	2023-04-30	CUST018	Female	47	Electronics	
9	19	2023-09-16	CUST019	Female	62	Clothing	
10	21	2023-01-14	CUST021	Female	50	Beauty	

Query Details

Query duration 36ms

Rows 534

Query ID 01bfc01d-000c-b0ed-9...

Show more

TRANSACTION\_ID

#

3 1000

Question 6:

2025-10-02 6:14am Brightlearn DAT Practical 1

ACCOUNTADMIN COMPUTE\_WH (X-Small) Share

Databases Worksheets

Pinned (1)

SALES\_RETAIL\_BRIGHT\_COFFEE

Search objects

- BRIGHT\_COFFEE\_ANALYSIS
- BRIGHT\_COFFEE\_SHOP
- BRIGHT\_DATASET
- SALES
- SNOWFLAKE
- SNOWFLAKE\_LEARNING\_DB
- SNOWFLAKE\_SAMPLE\_DATA

No Database selected Settings

Open in Workspaces Code Versions

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

```

39 SELECT *
40 FROM BRIGHT_DATASET.SALES_DATA.RETAIL_SALES_DATASETS
41 WHERE PRICE_PER_UNIT BETWEEN 100 AND 500;
42
43
44
45

```

Results Chart

#	TRANSACTION_ID	DATE	CUSTOMER_ID	GENDER	AGE	PRODUCT_CATEGORY	QUANTITY
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	
4	13	2023-08-05	CUST013	Male	22	Electronics	
5	15	2023-01-16	CUST015	Female	42	Electronics	
6	16	2023-02-17	CUST016	Male	19	Clothing	
7	20	2023-11-05	CUST020	Male	22	Clothing	
8	21	2023-01-14	CUST021	Female	50	Beauty	
9	24	2023-11-29	CUST024	Female	49	Clothing	
10	26	2023-10-07	CUST026	Female	28	Electronics	
11	28	2023-04-23	CUST028	Female	43	Beauty	

Query Details

Query duration 30ms

Rows 398

Query ID 01bfc01e-000c-b0ed-0...

Show more

TRANSACTION\_ID #

DATE

Question 7:

2025-10-02 6:14am Brightlearn DAT Practical 1

ACCOUNTADMIN COMPUTE\_WH (X-Small) Share

Databases Worksheets

Pinned (1)

SALES\_RETAIL\_BRIGHT\_COFFEE

Search objects

- BRIGHT\_COFFEE\_ANALYSIS
- BRIGHT\_COFFEE\_SHOP
- BRIGHT\_DATASET
- SALES
- SNOWFLAKE
- SNOWFLAKE\_LEARNING\_DB
- SNOWFLAKE\_SAMPLE\_DATA

No Database selected Settings

Open in Workspaces Code Versions

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

```

42 SELECT *
43 FROM BRIGHT_DATASET.SALES_DATA.RETAIL_SALES_DATASETS
44 WHERE PRICE_PER_UNIT BETWEEN 100 AND 500;
45
46
47
48
49
50
51 SELECT *
52 FROM BRIGHT_DATASET.SALES_DATA.RETAIL_SALES_DATASETS
53 WHERE PRODUCT_CATEGORY IN ('BEAUTY' OR PRODUCT_CATEGORY IN 'ELECTRONICS';
54
55
56
57

```

Results Chart

#	TRANSACTION_ID	DATE	CUSTOMER_ID	GENDER	AGE	PRODUCT_CATEGORY	QUANTITY
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	
8	13	2023-08-05	CUST013	Male	22	Electronics	

Query Details

Query duration 391ms

Rows 649

Query ID 01bfc03c-000c-b0ed-0...

Show more

TRANSACTION\_ID #

DATE

Question 8:

2025-10-02 6:14am Brightlearn DAT Practical 1

ACCOUNTADMIN COMPUTE\_WH (X-Small) Share

Databases Worksheets

Pinned (1)

SALES\_RETAIL\_BRIGHT\_COFFEE

Search objects

- BRIGHT\_COFFEE\_ANALYSIS
- BRIGHT\_COFFEE\_SHOP
- BRIGHT\_DATASET
- SALES
- SNOWFLAKE
- SNOWFLAKE\_LEARNING\_DB
- SNOWFLAKE\_SAMPLE\_DATA

No Database selected Settings

Open in Workspaces Code Versions

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

```

53 SELECT *
54 FROM BRIGHT_DATASET.SALES_DATA.RETAIL_SALES_DATASETS
55 WHERE PRODUCT_CATEGORY != 'CLOTHING';
56
57
58
59
60

```

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	
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	7	2023-03-13	CUST007	Male	46	Clothing	
8	8	2023-02-22	CUST008	Male	30	Electronics	
9	9	2023-12-13	CUST009	Male	63	Electronics	
10	10	2023-10-07	CUST010	Female	52	Clothing	

Query Details

Query duration 30ms

Rows 1K

Query ID 01bfc024-000c-b0ed-0...

Show more

TRANSACTION\_ID #

DATE

Question 9:

2025-10-02 6:14am Brightlearn DAT Practical 1

ACCOUNTADMIN COMPUTE\_WH (X-Small) Share

Databases Worksheets

Pinned (1)

SALES\_RETAIL\_BRIGHT\_COFFEE

Search objects

- BRIGHT\_COFFEE\_ANALYSIS
- BRIGHT\_COFFEE\_SHOP
- BRIGHT\_DATASET
- SALES
- SNOWFLAKE
- SNOWFLAKE\_LEARNING\_DB
- SNOWFLAKE\_SAMPLE\_DATA

No Database selected Settings

Open in Workspaces Code Versions

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

```

60
61
62
63
64 SELECT *
65 FROM BRIGHT_DATASET.SALES_DATA.RETAIL_SALES_DATASETS
66 WHERE QUANTITY >= 3;
67

```

Results Chart

#	TRANSACTION_ID	DATE	CUSTOMER_ID	GENDER	AGE	PRODUCT_CATEGORY	# QUANTITY
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	
4	12	2023-10-30	CUST012	Male	35	Beauty	
5	13	2023-08-05	CUST013	Male	22	Electronics	
6	14	2023-01-17	CUST014	Male	64	Clothing	
7	15	2023-01-16	CUST015	Female	42	Electronics	
8	16	2023-02-17	CUST016	Male	19	Clothing	
9	17	2023-04-22	CUST017	Female	27	Clothing	
10	20	2023-11-05	CUST020	Male	22	Clothing	
11	23	2023-04-12	CUST023	Female	35	Clothing	

Query Details

Query duration 34ms

Rows 504

Query ID 01bfc028-000c-b0ed-9...

Show more

TRANSACTION\_ID #

DATE

## Question 10:

2025-10-02 6:14am Brightlearn DAT Practical 1

ACCOUNTADMIN COMPUTE\_WH (X-Small) Share

Databases Worksheets

Pinned (1)

SALES\_RETAIL\_BRIGHT\_COFFEE

Search objects

- BRIGHT\_COFFEE\_ANALYSIS
- BRIGHT\_COFFEE\_SHOP
- BRIGHT\_DATASET
- SALES
- SNOWFLAKE
- SNOWFLAKE\_LEARNING\_DB
- SNOWFLAKE\_SAMPLE\_DATA

No Database selected Settings

Open in Workspaces Code Versions

Q10. Count the total number of transactions.  
Expected output: Total\_Transactions

```

65 FROM BRIGHT_DATASET.SALES_DATA.RETAIL_SALES_DATASETS
66 WHERE QUANTITY >= 3;
67
68
69
70
71 SELECT COUNT (*) AS TOTAL_TRANSACTIONS
72 FROM BRIGHT_DATASET.SALES_DATA.RETAIL_SALES_DATASETS;
73

```

Results Chart

#	TOTAL_TRANSACTIONS
1	1000

Query Details

Query duration 32ms

Rows 1

Query ID 01bfc02a-000c-b0ed-9...

Show more

TOTAL\_TRANSACTIONS #

100% filled

## Question 11:

2025-10-02 6:14am Brightlearn DAT Practical 1

ACCOUNTADMIN COMPUTE\_WH (X-Small) Share

Databases Worksheets

Pinned (1)

SALES\_RETAIL\_BRIGHT\_COFFEE

Search objects

- BRIGHT\_COFFEE\_ANALYSIS
- BRIGHT\_COFFEE\_SHOP
- BRIGHT\_DATASET
- SALES
- SNOWFLAKE
- SNOWFLAKE\_LEARNING\_DB
- SNOWFLAKE\_SAMPLE\_DATA

No Database selected Settings

Open in Workspaces Code Versions

Q11. Find the average Age of customers.  
Expected output: Average\_Age

```

70
71 SELECT COUNT (*) AS TOTAL_TRANSACTIONS
72 FROM BRIGHT_DATASET.SALES_DATA.RETAIL_SALES_DATASETS;
73
74
75
76
77 SELECT AVG(AGE), 2 AS AVERAGE_AGE
78 FROM BRIGHT_DATASET.SALES_DATA.RETAIL_SALES_DATASETS;
79

```

Results Chart

#	AVG(AGE)	AVERAGE_AGE
1	41.392000	2

Query Details

Query duration 524ms

Rows 1

Query ID 01bfc02b-000c-b0ed-9...

Show more

AVG(AGE) #

100% filled

AVERAGE\_AGE #

## Question 12:

The screenshot shows a database query interface with a sidebar on the left containing a tree view of databases. The main area displays a SQL query and its results. The query is as follows:

```
// SELECT AVG(AMOUNT) AS AVERAGE_AMOUNT
78 FROM BRIGHT_DATASET.SALES_DATA.RETAIL_SALES_DATASETS;
79
80 Q12. Find the total quantity of products sold.
81 Expected output: Total_Quantity
82
83 SELECT SUM(QUANTITY) AS TOTAL_QUANTITY
84 FROM BRIGHT_DATASET.SALES_DATA.RETAIL_SALES_DATASETS;
85
86 Q13. Find the maximum Total Amount spent in a single transaction.
```

The results table shows a single row with the value 2514 for the column TOTAL\_QUANTITY.

#	TOTAL_QUANTITY
1	2514

Query Details:

- Query duration: 26ms
- Rows: 1
- Query ID: 01bfc02c-000c-b0ed-9...

Progress bar for TOTAL\_QUANTITY: 100% filled.

## Question 13:

The screenshot shows a database query interface with a sidebar on the left containing a tree view of databases. The main area displays a SQL query and its results. The query is as follows:

```
83 SELECT SUM(QUANTITY) AS TOTAL_QUANTITY
84 FROM BRIGHT_DATASET.SALES_DATA.RETAIL_SALES_DATASETS;
85
86 Q13. Find the maximum Total Amount spent in a single transaction.
87 Expected output: Max_Total_Amount
88
89 SELECT MAX(TOTAL_AMOUNT) AS MAX_TOTAL_AMOUNT
90 FROM BRIGHT_DATASET.SALES_DATA.RETAIL_SALES_DATASETS;
91
```

The results table shows a single row with the value 2000 for the column MAX\_TOTAL\_AMOUNT.

#	MAX_TOTAL_AMOUNT
1	2000

Query Details:

- Query duration: 36ms
- Rows: 1
- Query ID: 01bfc02d-000c-b0ed-9...

Progress bar for MAX\_TOTAL\_AMOUNT: 100% filled.

## Question 14:

2025-10-02 6:14am Brightlearn DAT Practical 1

ACCOUNTADMIN COMPUTE\_WH (X-Small) Share

Databases Worksheets

Pinned (1)

SALES\_RETAIL\_BRIGHT\_COFFEE

Search objects

- BRIGHT\_COFFEE\_ANALYSIS
- BRIGHT\_COFFEE\_SHOP
- BRIGHT\_DATASET
- SALES
- SNOWFLAKE
- SNOWFLAKE\_LEARNING\_DB
- SNOWFLAKE\_SAMPLE\_DATA

No Database selected Settings

Q14. Find the minimum Price per Unit in the dataset.  
Expected output: Min\_Price\_per\_Unit

```
SELECT MIN(PRICE_PER_UNIT) AS MIN_PRICE_PER_UNIT
FROM BRIGHT_DATASET.SALES_DATA.RETAIL_SALES_DATASETS;
```

Results Chart

#	MIN_PRICE_PER_UNIT
1	25

Query Details

Query duration 30ms

Rows 1

Query ID 01bfc02e-000c-b0ed-0...

Show more

MIN\_PRICE\_PER\_UNIT #

100% filled

### Question 15:

2025-10-02 6:14am Brightlearn DAT Practical 1

ACCOUNTADMIN COMPUTE\_WH (X-Small) Share

Databases Worksheets

Pinned (1)

SALES\_RETAIL\_BRIGHT\_COFFEE

Search objects

- BRIGHT\_COFFEE\_ANALYSIS
- BRIGHT\_COFFEE\_SHOP
- BRIGHT\_DATASET
- SALES
- SNOWFLAKE
- SNOWFLAKE\_LEARNING\_DB
- SNOWFLAKE\_SAMPLE\_DATA

No Database selected Settings

Q15. Find the number of transactions per Product Category.  
Expected output: Product Category, Transaction\_Count

```
SELECT PRODUCT_CATEGORY,
COUNT (*) TRANSACTION_COUNT
FROM BRIGHT_DATASET.SALES_DATA.RETAIL_SALES_DATASETS
GROUP BY PRODUCT_CATEGORY;
```

Results Chart

	PRODUCT_CATEGORY	TRANSACTION_COUNT
1	Clothing	351
2	Beauty	307
3	Electronics	342

Query Details

Query duration 49ms

Rows 3

Query ID 01bfc02f-000c-b0ed-0...

Show more

PRODUCT\_CATEGORY ^

100% filled

TRANSACTION\_COUNT #

### Question 16:

2025-10-02 6:14am Brightlearn DAT Practical 1

ACCOUNTADMIN COMPUTE\_WH (X-Small) Share

Databases Worksheets

Pinned (1)

SALES\_RETAIL\_BRIGHT\_COFFEE

Search objects

- BRIGHT\_COFFEE\_ANALYSIS
- BRIGHT\_COFFEE\_SHOP
- BRIGHT\_DATASET
- SALES
- SNOWFLAKE
- SNOWFLAKE\_LEARNING\_DB
- SNOWFLAKE\_SAMPLE\_DATA

No Database selected Settings

Q16. Find the total revenue (Total Amount) per gender.  
Expected output: Gender, Total\_Revenue

```
SELECT GENDER,
SUM(TOTAL_AMOUNT) AS TOTAL_REVENUE
FROM BRIGHT_DATASET.SALES_DATA.RETAIL_SALES_DATASETS
GROUP BY GENDER;
```

Results Chart

	GENDER	TOTAL_REVENUE
1	Male	223160
2	Female	232840

Query Details

Query duration 26ms

Rows 2

Query ID 01bfc030-000c-b0ed-0...

Show more

GENDER ^

100% filled

TOTAL\_REVENUE #

### Question 17:

2025-10-02 6:14am Brightlearn DAT Practical 1

ACCOUNTADMIN COMPUTE\_WH (X-Small) Share

Databases Worksheets

Pinned (1)

SALES\_RETAIL\_BRIGHT\_COFFEE

Search objects

- BRIGHT\_COFFEE\_ANALYSIS
- BRIGHT\_COFFEE\_SHOP
- BRIGHT\_DATASET
- SALES
- SNOWFLAKE
- SNOWFLAKE\_LEARNING\_DB
- SNOWFLAKE\_SAMPLE\_DATA

No Database selected Settings

Open in Workspaces Code Versions

111 FROM BRIGHT\_DATASET.SALES\_DATA.RETAIL\_SALES\_DATASETS  
112 GROUP BY GENDER;  
113 -----  
114 Q17. Find the average Price per Unit per product category.  
115 Expected output: Product Category, Average\_Price  
116  
117 SELECT PRODUCT\_CATEGORY,AVG(PRICE\_PER\_UNIT),3 AS AVERAGE\_PRICE  
118 FROM BRIGHT\_DATASET.SALES\_DATA.RETAIL\_SALES\_DATASETS  
119 GROUP BY PRODUCT\_CATEGORY;  
120

Results Chart

	PRODUCT_CATEGORY	# AVG(PRICE_PER_UNIT)	# AVERAGE_PRICE
1	Beauty	184.055375	3
2	Clothing	174.287749	3
3	Electronics	181.900585	3

Query Details

Query duration 31ms

Rows 3

Query ID 01bfc030-000c-b0ed-9...

Show more

PRODUCT\_CATEGORY

100% filled

AVERAGE\_PRICE (LIMIT)

## Question 18:

2025-10-02 6:14am Brightlearn DAT Practical 1

ACCOUNTADMIN COMPUTE\_WH (X-Small) Share

Databases Worksheets

Pinned (1)

SALES\_RETAIL\_BRIGHT\_COFFEE

Search objects

- BRIGHT\_COFFEE\_ANALYSIS
- BRIGHT\_COFFEE\_SHOP
- BRIGHT\_DATASET
- SALES
- SNOWFLAKE
- SNOWFLAKE\_LEARNING\_DB
- SNOWFLAKE\_SAMPLE\_DATA

No Database selected Settings

Open in Workspaces Code Versions

117 SELECT PRODUCT\_CATEGORY,AVG(PRICE\_PER\_UNIT),3 AS AVERAGE\_PRICE  
118 FROM BRIGHT\_DATASET.SALES\_DATA.RETAIL\_SALES\_DATASETS  
119 GROUP BY PRODUCT\_CATEGORY;  
120 -----  
121 Q18. Find the total revenue per product category where total revenue is greater than  
122 10,000.  
123 Expected output: Product Category, Total\_Revenue  
124  
125 SELECT PRODUCT\_CATEGORY,  
126 SUM(TOTAL\_AMOUNT) AS TOTAL\_REVENUE  
127 FROM BRIGHT\_DATASET.SALES\_DATA.RETAIL\_SALES\_DATASETS  
128 GROUP BY PRODUCT\_CATEGORY  
129 HAVING SUM(TOTAL\_AMOUNT)>10000;  
130

Results Chart

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

Query Details

Query duration 35ms

Rows 3

Query ID 01bfc031-000c-b0ed-9...

Show more

PRODUCT\_CATEGORY

## Question 19:

2025-10-02 6:14am Brightlearn DAT Practical 1

ACCOUNTADMIN COMPUTE\_WH (X-Small) Share

Databases Worksheets

Pinned (1)

SALES\_RETAIL\_BRIGHT\_COFFEE

Search objects

- BRIGHT\_COFFEE\_ANALYSIS
- BRIGHT\_COFFEE\_SHOP
- BRIGHT\_DATASET
- SALES
- SNOWFLAKE
- SNOWFLAKE\_LEARNING\_DB
- SNOWFLAKE\_SAMPLE\_DATA

No Database selected Settings

Open in Workspaces Code Versions

128 GROUP BY PRODUCT\_CATEGORY  
129 HAVING SUM(TOTAL\_AMOUNT)>10000;  
130 -----  
131 Q19. Find the average quantity per product category where the average is more than 2.  
132 Expected output: Product Category, Average\_Quantity  
133  
134 SELECT PRODUCT\_CATEGORY,AVG(QUANTITY),3 AS AVERAGE\_QUANTITY  
135 FROM BRIGHT\_DATASET.SALES\_DATA.RETAIL\_SALES\_DATASETS  
136 GROUP BY PRODUCT\_CATEGORY  
137 HAVING AVG(QUANTITY)>2;  
138

Results Chart

	PRODUCT_CATEGORY	# AVG(QUANTITY)	# AVERAGE_QUANTITY
1	Beauty	2.511401	3
2	Clothing	2.547009	3
3	Electronics	2.482456	3

Query Details

Query duration 31ms

Rows 3

Query ID 01bfc032-000c-b0ed-9...

Show more

PRODUCT\_CATEGORY

100% filled

## Question 20:

2025-10-02 6:14am Brightlearn DAT Practical 1

ACCOUNTADMIN COMPUTE\_WH (X-Small) Share

Databases Worksheets

Pinned (1)

SALES\_RETAIL\_BRIGHT\_COFFEE

Search objects

- BRIGHT\_COFFEE\_ANALYSIS
- BRIGHT\_COFFEE\_SHOP
- BRIGHT\_DATASET
- SALES
- SNOWFLAKE
- SNOWFLAKE\_LEARNING\_DB
- SNOWFLAKE\_SAMPLE\_DATA

No Database selected Settings

Open in Workspaces Code Versions

```

134 SELECT PRODUCT_CATEGORY, AVG(QUANTITY) AS AVERAGE_QUANTITY
135 FROM BRIGHT_DATASET.SALES_DATA.RETAIL_SALES_DATASETS
136 GROUP BY PRODUCT_CATEGORY
137 HAVING AVG(QUANTITY) > 2;
-----
138
139 Q20. Display a column called Spending_Level that shows 'High' if Total Amount > 1000,
140 otherwise 'Low'.
141 Expected output: Transaction ID, Total Amount, Spending_Level
142
143 SELECT TRANSACTION_ID,
144        TOTAL_AMOUNT,
145        CASE
146          WHEN TOTAL_AMOUNT > 1000 THEN 'HIGH'
147          ELSE 'LOW'
148        END AS SPENDING_LEVEL
149 FROM BRIGHT_DATASET.SALES_DATA.RETAIL_SALES_DATASETS;
150

```

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

Query Details

Query duration 28ms

Rows 1K

Query ID 01bf033-000c-b0ed-0...

Show more

## Question 21:

2025-10-02 6:14am Brightlearn DAT Practical 1

ACCOUNTADMIN COMPUTE\_WH (X-Small) Share

Databases Worksheets

Pinned (1)

SALES\_RETAIL\_BRIGHT\_COFFEE

Search objects

- BRIGHT\_COFFEE\_ANALYSIS
- BRIGHT\_COFFEE\_SHOP
- BRIGHT\_DATASET
- SALES
- SNOWFLAKE
- SNOWFLAKE\_LEARNING\_DB
- SNOWFLAKE\_SAMPLE\_DATA

No Database selected Settings

Open in Workspaces Code Versions

```

149 FROM BRIGHT_DATASET.SALES_DATA.RETAIL_SALES_DATASETS;
150
151 Q21. Display a new column called Age_Group that labels customers as:
152 - 'Youth' if Age < 30
153 - 'Adult' if Age is between 30 and 59
154 - 'Senior' if Age >= 60
155 Expected output: Customer ID, Age, Age_Group
156
157 SELECT CUSTOMER_ID,
158        AGE,
159        CASE
160          WHEN AGE < 30 THEN 'YOUTH'
161          WHEN AGE BETWEEN 30 AND 59 THEN 'ADULT'
162          ELSE 'SENIOR'
163        END AS AGE_GROUP
164 FROM BRIGHT_DATASET.SALES_DATA.RETAIL_SALES_DATASETS;
165

```

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

Query Details

Query duration 39ms

Rows 1K

Query ID 01bf033-000c-b0ed-0...

Show more