

ANDILE DUBE

Practical 3: Advanced SQL Null Functions

Question 1:

The screenshot shows the Snowflake SQL editor interface. The query being executed is:

```
SELECT
  customer_id,
  Size,
  purchase_amount,
  item_purchased
FROM
  "SHOPPING_TRENDS", "TRENDS", "SHOPPING_TRENDS"
WHERE
  Size IS NULL
  AND purchase_amount > 50;
```

The query results are displayed in a table format, showing 22 rows. The columns are CUSTOMER_ID, SIZE, PURCHASE_AMOUNT, and ITEM_PURCHASED. The results show that for customer_id 11, 15, 22, 32, and 62, the SIZE is NULL and the PURCHASE_AMOUNT is greater than 50.

The screenshot shows the same Snowflake SQL editor interface, but the query results are now displayed in a table format. The results show 22 rows, with the first 5 rows having NULL values for SIZE and PURCHASE_AMOUNT greater than 50.

CUSTOMER_ID	SIZE	PURCHASE_AMOUNT	ITEM_PURCHASED
11	NULL	74.0	Handbag
15	NULL	54.0	Jeans
22	NULL	88.0	Shirt
32	NULL	54.0	Blouse
62	NULL	57.0	Blouse

Question 2:

2025-10-24 9:14am x rootCourseAssessments-DA x Practical 3

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- SHOPPING_TREN...
- SNOWFLAKE
- SNOWFLAKE_LE...
- SNOWFLAKE_SA...
- USERSANDEILED...

Results 2025-10-20 6:14pm Untitled 3.sql Untitled 8.sql 2025-10-24 9:14am

```

20 AND purchase_amount > 50;
21 ---2. List the total number of purchases grouped by Season, treating NULL values as 'Unknown
22 Season'.
23 ---Expected Columns: Season, Total Purchases
24 SELECT
25 COALESCE(Season, 'Unknown Season') AS Season,
26 COUNT(*) AS Total_Purchases
27 FROM
28 "SHOPPING_TRENDS"."TRENDS"."SHOPPING_TRENDS"
29 GROUP BY
30 COALESCE(Season, 'Unknown Season');

```

Results (just now)

Table Chart 5 rows 90ms

	SEASON	TOTAL_PURCHASES
1	Summer	65
2	Winter	80
3	Fall	55
4	Spring	73
5	Unknown Season	27

Feedback

Question 3:

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Results 2025-10-20 6:14pm Untitled 3.sql Untitled 8.sql 2025-10-24 9:14am

```

30 ---3. Count how many customers used each Payment Method, treating NULLs as
31 ---'Not Provided'.
32 ---Expected Columns: Payment Method, Customer Count
33 SELECT
34 COALESCE(payment_method, 'Not Provided') AS payment_method,
35 COUNT(*) AS "Customer Count"
36 FROM
37 "SHOPPING_TRENDS"."TRENDS"."SHOPPING_TRENDS"
38 GROUP BY
39 COALESCE(payment_method, 'Not Provided');
40

```

Results (just now)

Table Chart 7 rows 75ms

	PAYMENT_METHOD	Customer Count
1	Credit Card	44
2	Not Provided	30
3	PayPal	51
4	Debit Card	42
5	Cash	42

Feedback

Question 4:

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Results 2025-10-20 6:14pm Untitled 3.sql Untitled 8.sql 2025-10-24 9:14am

```

43 SELECT
44     customer_id,
45     promo_code_used,
46     review_rating,
47     item_purchased
48 FROM
49     "SHOPPING_TRENDS"."TRENDS"."SHOPPING_TRENDS"
50 WHERE
51     promo_code_used IS NULL
52     AND review_rating < 3.0;
53 Ctrl+I to generate

```

Results (just now) 8 rows 753ms

#	CUSTOMER_ID	PROMO_CODE_USED	REVIEW_RATING	ITEM_PURCHASED
1	21	null	2.5	Jeans
2	38	null	2.6	Jeans
3	61	null	2.5	Jeans
4	80	null	2.6	Sneakers
5	125	null	2.8	Sneakers

Feedback

Question 5:

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```

55 -- Expected Columns: Shipping Type, Average purchase_amount
56 SELECT
57     shipping_type,
58     AVG(COALESCE(purchase_amount, 0)) AS "Average purchase_amount"
59 FROM
60     "SHOPPING_TRENDS"."TRENDS"."SHOPPING_TRENDS"
61 GROUP BY
62     shipping_type;
63

```

Results (just now) 7 rows 82ms

#	SHIPPING_TYPE	Average purchase_amount
1	Standard	47.6666667
2	Express	53.4545455
3	Store Pickup	55.3333333
4	null	52.7037037
5	Free Shipping	50.2142857

Feedback

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SNOWFLAKE_SA...
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Results 2025-10-20 6:14pm Untitled 3.sql Untitled 8.sql 2025-10-24 9:14am

```

64 65 66 67 68 69 70 71 72 73 74 75 76
---5 purchases and no NULL Payment Method.
---Expected Columns: Location, Total Purchases
SELECT
  Location,
  COUNT(*) AS "Total Purchases"
FROM
  "SHOPPING_TRENDS"."TRENDS"."SHOPPING_TRENDS"
WHERE
  payment_method IS NOT NULL
GROUP BY
  Location
HAVING
  COUNT(*) > 5;

```

Results (1 minute ago)

Table Chart 9 rows 474ms

	LOCATION	# Total Purchases
1	Maine	41
2	Kentucky	30
3	null	24

Feedback

Question 7:

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RETAIL
SALES
SHOPPING_TREN...
SNOWFLAKE
SNOWFLAKE_LE...
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Results 2025-10-20 6:14pm Untitled 3.sql Untitled 8.sql 2025-10-24 9:14am

```

78 79 80 81 82 83 84 85 86 87 88 89 90
---'High' if amount > 80, 'Medium' if BETWEEN 50 AND 80.
---'Low' otherwise. Replace NULLs in purchase_amount with 0.
---Expected Columns: Customer ID, purchase_amount, Spender Category
SELECT
  customer_id,
  COALESCE(purchase_amount, 0) AS purchase_amount,
  CASE
    WHEN COALESCE(purchase_amount, 0) > 80 THEN 'High'
    WHEN COALESCE(purchase_amount, 0) BETWEEN 50 AND 80 THEN 'Medium'
    ELSE 'Low'
  END AS "Spender Category"
FROM
  "SHOPPING_TRENDS"."TRENDS"."SHOPPING_TRENDS" ;

```

Results (just now)

Table Chart 300 rows 341ms

	# CUSTOMER_ID	# PURCHASE_AMOUNT	Spender Category
1		1	20.0 Low
2		2	21.0 Low
3		3	27.0 Low

Feedback

Question 8:

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```

92 ---Purchases value but whose Color is not NULL.
93 ---Expected Columns: Customer ID, Color, Previous Purchases
94 SELECT
95     customer_id,
96     color,
97     previous_purchases
98 FROM
99     "SHOPPING_TRENDS"."TRENDS"."SHOPPING_TRENDS"
100 WHERE
101     previous_purchases IS NULL
102     AND color IS NOT NULL;

```

Results (just now) 36 rows 401ms

#	CUSTOMER_ID	COLOR	PREVIOUS_PURCHASES
1	8	Green	null
2	21	Yellow	null
3	25	White	null
4	37	Maroon	null

Question 9:

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```

105 ---ies as 'Unknown'.
106 ---Expected Columns: Frequency of Purchases, Total purchase_amount
107 SELECT
108     COALESCE(frequency_of_purchases, 'Unknown') AS frequency_of_purchases,
109     SUM(COALESCE(purchase_amount, 0)) AS "Total purchase_amount"
110 FROM
111     "SHOPPING_TRENDS"."TRENDS"."SHOPPING_TRENDS"
112 GROUP BY
113     COALESCE(frequency_of_purchases, 'Unknown');

```

Results (just now) 8 rows 220ms

#	FREQUENCY_OF_PURCHASES	Total purchase_amount
1	Every 3 Months	1749.0
2	Weekly	2184.0
3	Bi-Weekly	2099.0
4	Monthly	1780.0
5	Fortnightly	2033.0

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- SHOPPING_TREN...
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- SNOWFLAKE_SA...
- USERSANDEILED...

Results 2025-10-20 6:14pm Untitled 3.sql Untitled 8.sql 2025-10-24 9:14am

```

116 SELECT
117     Category,
118     COUNT(*) AS "Total Purchases"
119 FROM
120     "SHOPPING_TRENDS", "TRENDS", "SHOPPING_TRENDS"
121 WHERE
122     Category IS NOT NULL
123 GROUP BY
124     Category;
125

```

Results (just now)

Table Chart 4 rows 98ms

	CATEGORY	# Total Purchases
1	Outerwear	60
2	Footwear	70
3	Clothing	59
4	Accessories	78

Feedback

Question 11:

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Objects Data Products

Search

Filter

- BRIGHT_LIGHT_A...
- BRIGHT_LIGHT_C...
- RETAIL
- SALES
- SHOPPING_TREN...
- SNOWFLAKE
- SNOWFLAKE_LE...
- SNOWFLAKE_SA...
- USERSANDEILED...

Results 2025-10-20 6:14pm Untitled 3.sql Untitled 8.sql 2025-10-24 9:14am

```

128 ---Expected Columns: Location, Total purchase_amount
129 SELECT
130     Location,
131     SUM(COALESCE(purchase_amount, 0)) AS "Total purchase_amount"
132 FROM
133     "SHOPPING_TRENDS", "TRENDS", "SHOPPING_TRENDS"
134 WHERE
135     Location IS NOT NULL
136 GROUP BY
137     Location
138 ORDER BY
139     "Total purchase_amount" DESC
140 LIMIT 5;

```

Results (just now)

Table Chart 5 rows 416ms

	LOCATION	# Total purchase_amount
1	Maine	2294.0
2	Florida	1980.0
3	Massachusetts	1899.0

Feedback

Question 12:

2025-10-24 9:14am x rootCourseAssessments-D\ Practical 3

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Objects Data Products

Search

Filter

- BRIGHT_LIGHT_A...
- BRIGHT_LIGHT_C...
- RETAIL
- SALES
- SHOPPING_TREN...
- SNOWFLAKE
- SNOWFLAKE_LE...
- SNOWFLAKE_SA...
- USERSANDIELED...

Results 2025-10-20 6:14pm Untitled 3.sql Untitled 8.sql 2025-10-24 9:14am

```

143 SELECT
144     Gender,
145     Size,
146     COUNT(*) AS "Null Color Count"
147 FROM
148     "SHOPPING_TRENDS"."TRENDS"."SHOPPING_TRENDS"
149 WHERE
150     Color IS NULL
151 GROUP BY
152     Gender,
153     Size;
154

```

Results (6 minutes ago)

Table Chart

5 rows 89ms

	GENDER	SIZE	# Null Color Count
1	Male	null	6
2	Male	M	7
3	Male	L	6
4	Male	S	5

Feedback

Question 13:

2025-10-24 9:14am x rootCourseAssessments-D\ Practical 3

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```

152 Gender,
153 Size;
154 ---13. Identify all Item Purchased where more than 3 purchases had NULL ShippingType.
155 ---Expected Columns: Item Purchased, NULL Shipping Type Count
156 SELECT
157     Item_purchased,
158     COUNT(*) AS "NULL Shipping Type Count"
159 FROM
160     "SHOPPING_TRENDS"."TRENDS"."SHOPPING_TRENDS"
161 WHERE
162     SHIPPING_TYPE IS NULL
163     AND Item_purchased IS NOT NULL
164 GROUP BY
165     Item_purchased
166 HAVING
167     COUNT(*) > 3;
168

```

Results (just now)

Table Chart

2 rows 412ms

	ITEM_PURCHASED	# NULL Shipping Type Count
1	Shirt	5
2	Shoes	4

Feedback

Question 14:

2025-10-24 9:14am x rootCourseAssessments-D/ x Practical 3

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```

170 ---Expected Columns: Payment Method, Missing Review Rating Count
171 SELECT
172     payment_method,
173     COUNT(*) AS "Missing Review Rating Count"
174 FROM
175     "SHOPPING_TRENDS"."TRENDS"."SHOPPING_TRENDS"
176 WHERE
177     review_rating IS NULL
178     AND payment_method IS NOT NULL
179 GROUP BY
180     payment_method;

```

Results (just now)

Table Chart 6 rows 90ms

	PAYMENT_METHOD	# Missing Review Rating Count
1	Credit Card	8
2	Cash	4
3	Debit Card	7
4	Venmo	9

Feedback

Question 15:

2025-10-24 9:14am x rootCourseAssessments-D/ x Practical 3

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```

182 ---, and filter only where average is greater than 3.5.
183 ---Expected Columns: Category, Average Review Rating
184 SELECT
185     Category,
186     AVG(COALESCE(review_rating, 0)) AS "Average Review Rating"
187 FROM
188     "SHOPPING_TRENDS"."TRENDS"."SHOPPING_TRENDS"
189 WHERE
190     Category IS NOT NULL
191 GROUP BY
192     Category
193 HAVING
194     AVG(COALESCE(review_rating, 0)) > 3.5;
195

```

Results (just now)

Table Chart 0 rows 86ms

CATEGORY	Average Review Rating
Query produced no results	

Feedback

Question 16:

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```

197 ---17. Use CASE to create a column Delivery Speed: 'Fast' if Shipping Type is 'Express' or
198 ---'Next Day Air', 'Slow' if 'Standard',
199 ---'Other' for all else including NULL. Then count how many customers fall into
200 ---each category.
201
202 SELECT
203     CASE
204         WHEN shipping_type IN ('Express', 'Next Day Air') THEN 'Fast'
205         WHEN shipping_type = 'Standard' THEN 'Slow'
206         ELSE 'Other'
207     END AS "Delivery Speed",
208     COUNT(*) AS "Customer Count"
209 FROM
210     "SHOPPING_TRENDS"."TRENDS"."SHOPPING_TRENDS"
211 GROUP BY
212     "Delivery Speed";

```

Results (just now)

Table Chart 1 row 97ms

	COLOR	Average Age
1	null	47.8461538

Feedback

Question 17:

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```

209 ---17. Use CASE to create a column Delivery Speed: 'Fast' if Shipping Type is 'Express' or
210 ---'Next Day Air', 'Slow' if 'Standard',
211 ---'Other' for all else including NULL. Then count how many customers fall into
212 ---each category.
213
214 SELECT
215     CASE
216         WHEN shipping_type IN ('Express', 'Next Day Air') THEN 'Fast'
217         WHEN shipping_type = 'Standard' THEN 'Slow'
218         ELSE 'Other'
219     END AS "Delivery Speed",
220     COUNT(*) AS "Customer Count"
221 FROM
222     "SHOPPING_TRENDS"."TRENDS"."SHOPPING_TRENDS"
223 GROUP BY
224     "Delivery Speed";

```

Results (just now)

Table Chart 3 rows 411ms

	Delivery Speed	Customer Count
1	Other	166
2	Fast	89

Feedback

Question 18:

2025-10-24 9:14am x rootCourseAssessments-D\ Practical 3

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```

225 ---'Yes'.
226 ---Expected Columns: Customer ID, purchase_amount, Promo Code Used
227 SELECT Customer_ID, purchase_amount, Promo_Code_Used
228 FROM
229 "SHOPPING_TRENDS", "TRENDS", "SHOPPING_TRENDS"
230 WHERE purchase_amount IS NULL
231 AND Promo_Code_Used = 'Yes';
232
233

```

Results (just now)

Table Chart 20 rows 405ms

	CUSTOMER_ID	PURCHASE_AMOUNT	PROMO_CODE_USED
1	13	null	TRUE
2	30	null	TRUE
3	78	null	TRUE
4	95	null	TRUE
5	124	null	TRUE

Feedback

Question 19:

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```

235 ---Review Rating
236 SELECT
237 Location,
238 MAX(COALESCE (previous_purchases),0) AS Max_previous_purchases,
239 AVG(review_rating) AS Average_review_rating
240 FROM
241 "SHOPPING_TRENDS", "TRENDS", "SHOPPING_TRENDS"
242 GROUP BY
243 Location
244 HAVING
245 AVG(review_rating) > 4.0;

```


Results (just now)

0 rows 13ms

SQL compilation error: error line 238 at position 8 not enough arguments for function [COALESCE(SHOPPING_TRENDS.PREVIOUS_PURCHASES)], expected 2, got 1

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Question 20:



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```
250 SELECT
251     customer_id,
252     shipping_type,
253     purchase_amount,
254     item_purchased
255 FROM
256     "SHOPPING_TRENDS"."TRENDS"."SHOPPING_TRENDS"
257 WHERE
258     shipping_type IS NULL
259     AND purchase_amount BETWEEN 30 AND 70;
260
```

Results (just now)

Table Chart

7 rows 410ms

	CUSTOMER_ID	SHIPPING_TYPE	PURCHASE_AMOUNT	ITEM_PURCHASED
1	15	null	54.0	Jeans
2	105	null	43.0	Shirt
3	141	null	37.0	Shorts
4	196	null	66.0	Coat
5	213	null	36.0	Shirt