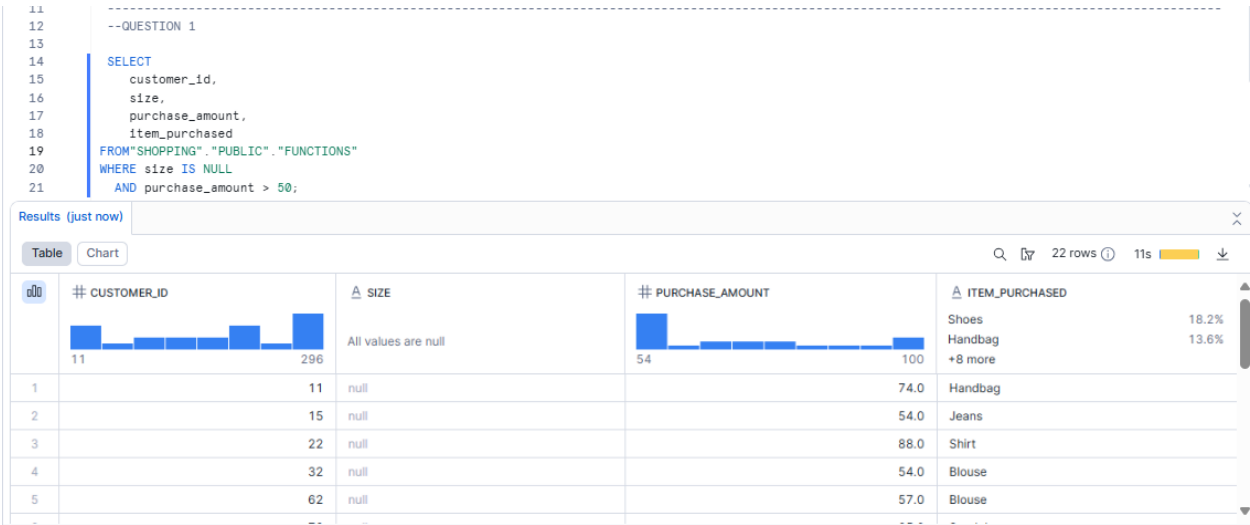


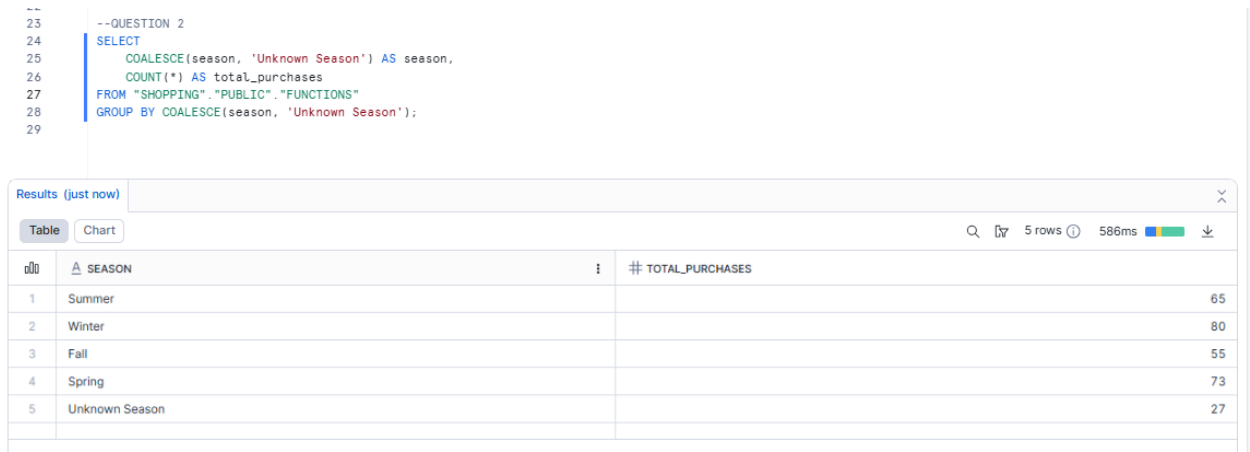
THABO LATHA

PRACTICAL 3

QUESTION 1



QUESTION 2



QUESTION 3

```

29
30 --QUESTION 3
31 SELECT
32     COALESCE(PAYMENT_METHOD, 'NOT PROVIDED') AS PAYMENT_METHOD,
33     COUNT(DISTINCT CUSTOMER_ID) AS CUSTOMER_COUNT,
34     FROM "SHOPPING"."PUBLIC"."FUNCTIONS"
35     GROUP BY COALESCE(PAYMENT_METHOD, 'NOT PROVIDED')
36

```

Results (2 minutes ago)

Table Chart 7 rows 501ms

	PAYMENT_METHOD	CUSTOMER_COUNT
2	NOT PROVIDED	30
3	Bank Transfer	38
4	Debit Card	42
5	Venmo	53
6	Cash	42
7	Credit Card	44

QUESTION 4

```

-- QUESTION 4
SELECT
    CUSTOMER_ID,
    PROMO_CODE_USED,
    REVIEW_RATING,
    ITEM_PURCHASED
FROM "SHOPPING"."PUBLIC"."FUNCTIONS"
WHERE PROMO_CODE_USED IS NULL
AND REVIEW_RATING < 3.0;

```

Results (2 minutes ago)

Table Chart 8 rows 69ms

CUSTOMER_ID	PROMO_CODE_USED	REVIEW_RATING	ITEM_PURCHASED
21	null	2.5	Jeans
38	null	2.6	Jeans
61	null	2.5	Jeans
80	null	2.6	Sneakers
125	null	2.8	Sneakers
128	null	2.5	Shoes
180	null	2.5	Shorts
285	null	2.9	Blouse

QUESTION 5

```

-- QUESTION 5
SELECT
    SHIPPING_TYPE,
    AVG(COALESCE(PURCHASE_AMOUNT, 0)) AS AVERAGE_PURCHASE_AMOUNT
FROM "SHOPPING"."PUBLIC"."FUNCTIONS"
GROUP BY SHIPPING_TYPE;

```

Results (6 minutes ago)

Table Chart 7 rows 517ms

	SHIPPING_TYPE	AVERAGE_PURCHASE_AMOUNT
1	Standard	47.6666667
2	Express	53.4545455
3	Store Pickup	55.3333333
4	null	52.7037037

QUESTION 6

```

54
55
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64

```

```

-- QUESTION 6

SELECT
  LOCATION,
  COUNT(*) AS TOTAL_PURCHASES
FROM "SHOPPING"."PUBLIC"."FUNCTIONS"
WHERE PAYMENT_METHOD IS NOT NULL
GROUP BY LOCATION
HAVING COUNT(*) > 5;

```

Results (just now)

Table Chart

9 rows 523ms

	LOCATION	TOTAL_PURCHASES
1	Maine	41
2	Kentucky	30
3	null	24
4	New York	31
5	Oregon	30
6	Rhode Island	29

QUESTION 7

```

65
66
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75

```

```

-- QUESTION 7

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"."PUBLIC"."FUNCTIONS";

```

Results (3 minutes ago)

Table Chart

300 rows 550ms

	CUSTOMER_ID	PURCHASE_AMOUNT	SPENDER_CATEGORY
1			
55		55	59.0 MEDIUM
56		56	53.0 MEDIUM
57		57	52.0 MEDIUM
58		58	97.0 HIGH
59		59	26.0 LOW
60		60	31.0 LOW
61		61	51.0 MEDIUM

QUESTION 8

```

76
77
78
79
80
81
82
83
84

```

```

--QUESTION 8

SELECT
  CUSTOMER_ID,
  COLOR,
  PREVIOUS_PURCHASES
FROM "SHOPPING"."PUBLIC"."FUNCTIONS"
WHERE PREVIOUS_PURCHASES IS NULL
AND COLOR IS NOT NULL;

```

Results (2 minutes ago)

Table Chart

36 rows 85ms

	CUSTOMER_ID	COLOR	PREVIOUS_PURCHASES
8			
1		8 Green	null
2		21 Yellow	null
3		25 White	null

QUESTION 9

```

86 -- QUESTION 9
87
88 SELECT
89     COALESCE(FREQUENCY_OF_PURCHASES, 'Unknown') AS FREQUENCY_OF_PURCHASES,
90     SUM(COALESCE(PURCHASE_AMOUNT, 0)) AS TOTAL_PURCHASE_AMOUNT
91 FROM "SHOPPING"."PUBLIC"."FUNCTIONS"
92 GROUP BY COALESCE(FREQUENCY_OF_PURCHASES, 'Unknown');
93
94 Ctrl+I to generate

```

Results (1 hour ago)

	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
6	Annually	1765.0
7	Unknown	1518.0
8	Quarterly	2541.0

QUESTION 10

```

93
94 --QUESTION 10
95 SELECT
96     CATEGORY,
97     COUNT(*) AS TOTAL_PURCHASE
98 FROM "SHOPPING"."PUBLIC"."FUNCTIONS"
99 WHERE CATEGORY IS NOT NULL
100 GROUP BY CATEGORY;

```

Results (just now)

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

Question 11

```

102 --QUESTION 11
103
104 SELECT
105     Location,
106     SUM(COALESCE(PURCHASE_AMOUNT, 0)) AS TOTAL_PURCHASE_AMOUNT
107 FROM "SHOPPING"."PUBLIC"."FUNCTIONS"
108 GROUP BY
109     Location
110 ORDER BY
111     TOTAL_PURCHASE_AMOUNT DESC
112 LIMIT 5;
113 Ctrl+I to generate
114

```

Results (8 minutes ago)

	LOCATION	# TOTAL_PURCHASE_AMOUNT
1	Maine	2294.0
2	Florida	1980.0
3	Massachusetts	1899.0
4	Rhode Island	1876.0
5	Kentucky	1798.0

Question 12

```

114      --question 12
115
116      SELECT
117          GENDER,
118          SIZE,
119          COUNT(*) AS "NULL COLOR COLOR"
120      FROM "SHOPPING"."PUBLIC"."FUNCTIONS"
121      WHERE COLOR IS NULL
122      GROUP BY
123          GENDER,
124          SIZE;

```

	GENDER	SIZE	# NULL COLOR COLOR
1	Male	null	6
2	Male	M	7
3	Male	L	6
4	Male	S	5
5	Male	XL	5

QUESTION 13

```

126      -- QUESTION 13
127      SELECT
128          ITEM_PURCHASED,
129          COUNT(*) AS "NULL Shipping Type Count"
130      FROM "SHOPPING"."PUBLIC"."FUNCTIONS"
131      WHERE SHIPPING_TYPE IS NULL
132      GROUP BY
133          ITEM_PURCHASED
134      HAVING
135          COUNT(*) > 3;
136      Ctrl+I to generate
137
138

```

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

QUESTION 14

```

137
138 --QUESTION 14
139
140 SELECT
141     PAYMENT_METHOD,
142     COUNT(*) AS "Missing Review Rating Count"
143 FROM "SHOPPING"."PUBLIC"."FUNCTIONS"
144 WHERE REVIEW_RATING IS NULL
145 GROUP BY
146     PAYMENT_METHOD;
147 Ctrl+I to generate

```

Results (just now)

Table Chart 7 rows 93ms

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

QUESTION 15

```

147 --QUESTION 15
148
149 SELECT
150     Category,
151     AVG(Review_Rating) AS "Average Review Rating"
152 FROM "SHOPPING"."PUBLIC"."FUNCTIONS"
153 GROUP BY Category
154 HAVING AVG(Review_Rating) > 3.5;
155 Ctrl+I to generate

```

Results (9 minutes ago)

Table Chart 4 rows 97ms

	CATEGORY	# Average Review Rating
1	null	3.7258065
2	Outerwear	3.8173077
3	Footwear	3.6573770
4	Accessories	3.7338235

QUESTION 16

```

155
156 --QUESTION 16
157
158 SELECT
159     COLOR,
160     AVG(AGE) AS "AVERAGE AGE"
161 FROM "SHOPPING"."PUBLIC"."FUNCTIONS"
162 WHERE COLOR IS NULL
163 GROUP BY COLOR
164 HAVING COUNT(*) >= 2;

```

Results (just now)

Table Chart 1 row 511ms

	COLOR	# AVERAGE AGE
1	null	47.8461538

QUESTION 17

```

166 -- QUESTION 18
167
168 SELECT
169     CASE
170         WHEN Shipping_Type IN ('Next Day Air', 'Express') THEN 'Fast'
171         WHEN Shipping_Type = 'Standard' THEN 'Slow'
172         ELSE 'Other'
173     END AS Delivery_Speed,
174     COUNT(Customer_ID) AS "Customer Count"
175 FROM "SHOPPING"."PUBLIC"."FUNCTIONS"
176 GROUP BY
177     CASE
178         WHEN Shipping_Type IN ('Next Day Air', 'Express') THEN 'Fast'
179         WHEN Shipping_Type = 'Standard' THEN 'Slow'
180         ELSE 'Other'
181     END;

```

Results (31 minutes ago)

Table Chart 3 rows 464ms

	DELIVERY_SPEED	# Customer Count
1	Other	166
2	Fast	89
3	Slow	45

QUESTIN 18

```

185 --QUESTION 18
186 SELECT
187     CUSTOMER_ID,
188     PURCHASE_AMOUNT,
189     PROMO_CODE_USED
190 FROM "SHOPPING"."PUBLIC"."FUNCTIONS"
191 WHERE PURCHASE_AMOUNT IS NULL
192 AND PROMO_CODE_USED = 'YES';
193
194

```

Results (1 minute ago)

Table Chart 20 rows 468ms

	# CUSTOMER_ID	# PURCHASE_AMOUNT	0 1 PROMO_CODE_USED
	13	All values are null	true 100.0%
1	13	null	TRUE
2	30	null	TRUE
3	78	null	TRUE
4	95	null	TRUE
5	124	null	TRUE

QUESTION 19

```

193 -----
194 --QUESTION 19
195 SELECT
196     Location,
197     MAX(COALESCE(Previous_Purchases, 0)) AS "Max Previous Purchases",
198     AVG(Review_Rating) AS "Average Review Rating"
199 FROM "SHOPPING"."PUBLIC"."FUNCTIONS"
200 GROUP BY Location;
201 -----

```

Results (1 minute ago)

Table Chart

9 rows 760ms

	LOCATION	# Max Previous Purchases	# Average Review Rating
1	Rhode Island	50.0	3.7428571
2	Kentucky	46.0	3.7107143
3	Texas	47.0	3.5523810
4	Massachusetts	47.0	3.6580645
5	null	50.0	3.5956522
6	Oregon	50.0	3.6133333
7	New York	49.0	3.9280000
8	Maine	47.0	3.7815789

QUESTION 20

```

---
204 SELECT
205     CUSTOMER_ID,
206     SHIPPING_TYPE,
207     PURCHASE_AMOUNT,
208     ITEM_PURCHASED
209 FROM "SHOPPING"."PUBLIC"."FUNCTIONS"
210 WHERE SHIPPING_TYPE IS NULL
211 AND PURCHASE_AMOUNT BETWEEN 30 and 70;
212

```

Results (just now)

Table Chart

7 rows 570ms

	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
6	235	null	38.0	Sandals
7	293	null	35.0	null