

1.

ACCOUNTADMIN

CO

PRACTICAL3.SHOPPINGTRENDS Settings

```
8 --Find all records where Size is missing and the purchase_amount is greater than 50--
9 SELECT
10     customer_id,
11     size,
12     purchase_amount,
13     item_purchased
14 FROM "PRACTICAL3"."SHOPPINGTRENDS"."DATA"
15 WHERE size IS NULL
16     AND purchase_amount > 50;
17
```

Results

Chart

	# CUSTOMER_ID	SIZE	# PURCHASE_AMOUNT	ITEM_PURCHASED
1	11	null	74.0	Handbag
2	15	null	54.0	Jeans
3	22	null	88.0	Shirt
4	32	null	54.0	Blouse
5	62	null	57.0	Blouse
6	73	null	65.0	Sandals
7	91	null	54.0	Shoes
8	97	null	56.0	Shoes
9	100	null	55.0	Sneakers
10	160	null	84.0	Coat
11	173	null	96.0	Sandals

Activate
Go to Settings

2.

PRACTICAL3.SHOPPINGTRENDS ▾ Settings ▾

--
17
18 --List the total number of purchases grouped by Season, treating NULL values as 'Unknown Season'--
19 SELECT
20 COALESCE(season, 'Unknown Season') AS Season,
21 COUNT(*) AS Total_Purchases
22 FROM "PRACTICAL3"."SHOPPINGTRENDS"."DATA"
23 GROUP BY COALESCE(season, 'Unknown Season');
24
25

Results Chart

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

3.

ACCOUNTADMIN • COMP

PRACTICAL3.SHOPPINGTRENDS Settings

```
23 --Count how many customers used each Payment Method, treating NULLs as 'Not Provided'--
24
25 --Count how many customers used each Payment Method, treating NULLs as 'Not Provided'--
26 SELECT
27     COALESCE(payment_method, 'Not Provided') AS Payment_Method,
28     COUNT(DISTINCT customer_id) AS Customer_Count
29 FROM "PRACTICAL3"."SHOPPINGTRENDS"."DATA"
30 GROUP BY COALESCE(payment_method, 'Not Provided');
31
32
```

Results Chart

	A PAYMENT_METHOD	# CUSTOMER_COUNT
1	PayPal	51
2	Bank Transfer	38
3	Debit Card	42
4	Venmo	53
5	Not Provided	30
6	Cash	42
7	Credit Card	44

Activate V

4.

ACCOUNTADMIN • COM

PRACTICAL3.SHOPPINGTRENDS Settings

```
31
32 --Show customers where Promo Code Used is NULL and Review Rating is below 3.0--
33 SELECT
34     customer_id,
35     promo_code_used,
36     review_rating,
37     item_purchased
38 FROM "PRACTICAL3"."SHOPPINGTRENDS"."DATA"
39 WHERE promo_code_used IS NULL
40     AND review_rating < 3.0;
41
```

Results

Chart

	# CUSTOMER_ID	0 1 PROMO_CODE_USED	# REVIEW_RATING	A 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
6	128	null	2.5	Shoes
7	180	null	2.5	Shorts
8	285	null	2.9	Blouse

5.

ACCOUNTADMIN

COM

PRACTICAL3.SHOPPINGTRENDS

Settings

41

42

43

44

45

46

47

48

49

50

--Group customers by Shipping Type, and return the average purchase_amount, treating missing values as 0--

SELECT

COALESCE(shipping_type, 'Unknown') AS Shipping_Type,

AVG(COALESCE(purchase_amount, 0)) AS Average_Purchase_Amount

FROM "PRACTICAL3"."SHOPPINGTRENDS"."DATA"

GROUP BY COALESCE(shipping_type, 'Unknown');

Results

Chart

	SHIPPING_TYPE	AVERAGE_PURCHASE_AMOUNT
1	Standard	47.6666667
2	Express	53.4545455
3	Store Pickup	55.3333333
4	Free Shipping	50.2142857
5	Next Day Air	54.8666667
6	Unknown	52.7037037
7	2-Day Shipping	51.5576923

6.

ACCOUNTADMIN • COM

PRACTICAL3.SHOPPINGTRENDS Settings

```
49 --Display the number of purchases per Location only for those with more than 5 purchases and no NULL Payment Method--
50 SELECT
51     location,
52     COUNT(*) AS Total_Purchases
53 FROM "PRACTICAL3"."SHOPPINGTRENDS"."DATA"
54 WHERE payment_method IS NOT NULL
55 GROUP BY location
56 HAVING COUNT(*) > 5;
57
58
```

Results Chart

	LOCATION	TOTAL_PURCHASES
1	Maine	41
2	Kentucky	30
3	null	24
4	New York	31
5	Oregon	30
6	Rhode Island	29
7	Florida	32
8	Massachusetts	31
9	Texas	22

7.

ACCOUNTADMIN

COMI

PRACTICAL3.SHOPPINGTRENDS

Settings

58

--Create a column Spender Category that classifies customers using CASE--

59

SELECT

60

customer_id,

61

COALESCE(purchase_amount, 0) AS purchase_amount,

62

CASE

63

WHEN COALESCE(purchase_amount, 0) > 80 THEN 'High'

64

WHEN COALESCE(purchase_amount, 0) BETWEEN 50 AND 80 THEN 'Medium'

65

ELSE 'Low'

66

END AS Spender_Category

67

FROM "PRACTICAL3"."SHOPPINGTRENDS"."DATA";

68

Results

Chart

	# CUSTOMER_ID	# PURCHASE_AMOUNT	A SPENDER_CATEGORY
1	1	20.0	Low
2	2	21.0	Low
3	3	27.0	Low
4	4	45.0	Low
5	5	80.0	Medium
6	6	82.0	High
7	7	50.0	Medium
8	8	29.0	Low
9	9	100.0	High
10	10	97.0	High
11	11	74.0	Medium
12	12	55.0	Medium

Activate V

Go to Setting

8.

ACCOUNTADMIN

COM

PRACTICAL3.SHOPPINGTRENDS

Settings

```

68
69 --Find customers who have no Previous Purchases value but whose Color is not NULL--
70 SELECT
71     customer_id,
72     color,
73     previous_purchases
74 FROM "PRACTICAL3"."SHOPPINGTRENDS"."DATA"
75 WHERE previous_purchases IS NULL
76     AND color IS NOT NULL;
77
78

```

Results

Chart

	# CUSTOMER_ID	COLOR	# PREVIOUS_PURCHASES
1	8	Green	null
2	21	Yellow	null
3	25	White	null
4	37	Maroon	null
5	40	Gray	null
6	43	Black	null
7	44	Green	null
8	70	White	null
9	73	Maroon	null
10	75	Pink	null
11	83	Black	null
12	85	Yellow	null

Activate

Go to Settings

9.

ACCOUNTADMIN • COM

PRACTICAL3.SHOPPINGTRENDS ▾ Settings ▾

```

78 --Group records by Frequency of Purchases and show the total amount spent per group, treating NULL frequencies as 'Unknown'--
79 SELECT
80     COALESCE(frequency_of_purchases, 'Unknown') AS Frequency_of_Purchases,
81     SUM(purchase_amount) AS Total_purchase_amount
82 FROM "PRACTICAL3"."SHOPPINGTRENDS"."DATA"
83 GROUP BY COALESCE(frequency_of_purchases, 'Unknown');
84
85
86
        
```

↩ Results 📊 Chart

	▲ 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

10.

ACCOUNTADMIN • COM

PRACTICAL3.SHOPPINGTRENDS Settings

```
85 --Display a list of all Category values with the number of times each was purchased, excluding rows where Category is NULL--
86 SELECT
87     category,
88     COUNT(*) AS Total_Purchases
89 FROM "PRACTICAL3"."SHOPPINGTRENDS"."DATA"
90 WHERE category IS NOT NULL
91 GROUP BY category;
92
93
```

Results Chart

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

11.

ACCOUNTADMIN • COM


PRACTICAL3.SHOPPINGTRENDS Settings

```
93  --Return the top 5 Locations with the highest total purchase_amount, replacing NULLs in amount with 0--
94  SELECT
95      location,
96      SUM(COALESCE(purchase_amount, 0)) AS Total_purchase_amount
97  FROM "PRACTICAL3"."SHOPPINGTRENDS"."DATA"
98  GROUP BY location
99  ORDER BY Total_purchase_amount DESC
100 LIMIT 5;
101
```

Results Chart



	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

12.

 ACCOUNTADMIN • COM

PRACTICAL3.SHOPPINGTRENDS ▾ Settings ▾

```
110
111 --Identify all Item Purchased where more than 3 purchases had NULL Shipping Type--
112 SELECT
113     item_purchased,
114     COUNT(*) AS Null_Shipping_Type_Count
115 FROM "PRACTICAL3"."SHOPPINGTRENDS"."DATA"
116 WHERE shipping_type IS NULL
117 GROUP BY item_purchased
118 HAVING COUNT(*) > 3;
119
```

 Results  Chart

	ITEM_PURCHASED	# NULL_SHIPPING_TYPE_COUNT
1	null	4
2	Shirt	5
3	Shoes	4

13.

ACCOUNTADMIN • COM

PRACTICAL3.SHOPPINGTRENDS Settings

```
119
120 --Identify all Item Purchased where more than 3 purchases had NULL Shipping Type--
121 SELECT
122     item_purchased,
123     COUNT(*) AS Null_Shipping_Type_Count
124 FROM "PRACTICAL3"."SHOPPINGTRENDS"."DATA"
125 WHERE shipping_type IS NULL
126 GROUP BY item_purchased
127 HAVING COUNT(*) > 3;
```

Results

Chart

	ITEM_PURCHASED	# NULL_SHIPPING_TYPE_COUNT
1	null	4
2	Shirt	5
3	Shoes	4

14.

91

ACCOUNTADMIN • COM

PRACTICAL3.SHOPPINGTRENDS ▾ Settings ▾

128
129
130
131
132
133
134
135
136

--Show a count of how many customers per Payment Method have NULL Review Rating--
SELECT
 COALESCE(payment_method, 'Not Provided') AS Payment_Method,
 COUNT(*) AS Missing_Review_Rating_Count
FROM "PRACTICAL3"."SHOPPINGTRENDS"."DATA"
WHERE review_rating IS NULL
GROUP BY COALESCE(payment_method, 'Not Provided');

Results

Chart

	⚙ PAYMENT_METHOD	# MISSING_REVIEW_RATING_COUNT
1	Credit Card	8
2	Cash	4
3	Debit Card	7
4	Not Provided	2
5	Venmo	9
6	PayPal	3
7	Bank Transfer	4

15.

96

ACCOUNTADMIN • CON

PRACTICAL3.SHOPPINGTRENDS ▾ Settings ▾

137
138
139
140
141
142
143
144
145

--Group by Category and return the average Review Rating, replacing NULLs with 0, and filter only where average is greater than 3.5--
SELECT
 category,
 AVG(COALESCE(review_rating, 0)) AS Average_Review_Rating
FROM "PRACTICAL3"."SHOPPINGTRENDS"."DATA"
GROUP BY category
HAVING AVG(COALESCE(review_rating, 0)) > 3.5;

↩ Results

📊 Chart

CATEGORY	AVERAGE_REVIEW_RATING
Query produced no results	

16.

ACCOUNTADMIN

COMI

PRACTICAL3.SHOPPINGTRENDS Settings

```
145 --List all Colors that are missing (NULL) in at least 2 rows and the average Age of customers for those rows--
146 SELECT
147     color,
148     AVG(age) AS Average_Age
149 FROM "PRACTICAL3"."SHOPPINGTRENDS"."DATA"
150 WHERE color IS NULL
151 GROUP BY color
152 HAVING COUNT(*) >= 2;
153
```

Results

Chart

	A COLOR	# AVERAGE_AGE
1	null	47.8461538

17.

ACCOUNTADMIN

COMI

PRACTICAL3.SHOPPINGTRENDS

Settings

```
154 --Use CASE to create a column Delivery Speed--
155 SELECT
156     CASE
157         WHEN shipping_type IN ('Express', 'Next Day Air') THEN 'Fast'
158         WHEN shipping_type = 'Standard' THEN 'Slow'
159         ELSE 'Other'
160     END AS Delivery_Speed,
161     COUNT(DISTINCT customer_id) AS Customer_Count
162 FROM "PRACTICAL3"."SHOPPINGTRENDS"."DATA"
163 GROUP BY
164     CASE
165         WHEN shipping_type IN ('Express', 'Next Day Air') THEN 'Fast'
166         WHEN shipping_type = 'Standard' THEN 'Slow'
167         ELSE 'Other'
168     END;
```

Results

Chart

	DELIVERY_SPEED	CUSTOMER_COUNT
1	Fast	89
2	Slow	45
3	Other	166

18.

ACCOUNTADMIN

CON

PRACTICAL3.SHOPPINGTRENDS Settings

```
170 --Find customers whose purchase_amount is NULL and whose Promo Code Used is 'Yes'--
171 SELECT
172     customer_id,
173     purchase_amount,
174     promo_code_used
175 FROM "PRACTICAL3"."SHOPPINGTRENDS"."DATA"
176 WHERE purchase_amount IS NULL
177     AND promo_code_used = 'Yes';
178
179
```


Results

Chart

	# CUSTOMER_ID	# PURCHASE_AMOUNT	0 1 PROMO_CODE_USED
1	13	null	TRUE
2	30	null	TRUE
3	78	null	TRUE
4	95	null	TRUE
5	124	null	TRUE
6	129	null	TRUE
7	130	null	TRUE
8	138	null	TRUE
9	153	null	TRUE
10	168	null	TRUE
11	177	null	TRUE
12	202	null	TRUE

Activate
Go to Settings

19.

 ACCOUNTADMIN • COM

PRACTICAL3.SHOPPINGTRENDS ▾ Settings ▾

179
180
181
182
183
184
185
186
187


--Group by Location and show the maximum Previous Purchases, replacing NULLs with 0, only where the average rating is above 4.0--
SELECT
 location,
 MAX(COALESCE(previous_purchases, 0)) AS Max_Previous_Purchases,
 AVG(review_rating) AS Average_Review_Rating
FROM "PRACTICAL3"."SHOPPINGTRENDS"."DATA"
GROUP BY location
HAVING AVG(review_rating) > 4.0;

↶ Results

~ Chart

LOCATION	MAX_PREVIOUS_PURCHASES	AVERAGE_REVIEW_RATING
Query produced no results		

20.

 ACCOUNTADMIN • COM

PRACTICAL3.SHOPPINGTRENDS ▾ Settings ▾

```
187
188 --Show customers who have a NULL Shipping Type but made a purchase in the range of 30 to 70 USD--
189 SELECT
190     customer_id,
191     shipping_type,
192     purchase_amount,
193     item_purchased
194 FROM "PRACTICAL3"."SHOPPINGTRENDS"."DATA"
195 WHERE shipping_type IS NULL
196     AND purchase_amount BETWEEN 30 AND 70;
```

[↩ Results](#) [↗ Chart](#)

	# 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