Lindelwa Khumalo practical 2

QUESTION 1

```
12      |SELECT
13          CUSTOMER_ID,
14          Size,
15          purchase_amount,
16          Item_Purchased
17          FROM "TRENDS"."PUBLIC"."SHOPINGTRENDS"
18      WHERE Size IS NULL
19          AND purchase_amount > 50;
```

↳ Results   ~ Chart   Q ▥ ⤓ ⬛ 🕐

	# CUSTOMER_ID	A SIZE	# PURCHASE_AMOUNT	A 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

QUESTION 2

```
24      --Expected Columns: Season, Total Purchases |
25
26      SELECT
27          COALESCE(Season, 'Unknown Season') AS Season,
28          COUNT(*) AS Total_Purchases
29          FROM "TRENDS"."PUBLIC"."SHOPINGTRENDS"
30      GROUP BY COALESCE(Season, 'Unknown Season');
31      ----------------------------------------------------------------------
```

↳ Results   ~ Chart   Q ▥ ⤓ ⬛ 🕐

	A SEASON	# TOTAL_PURCHASES	Query Details	
1	Summer	65	Query duration	25ms
2	Winter	80		
3	Fall	55	Rows	5
4	Spring	73	Query ID	01bfd5d1-000c-b142-0...
5	Unknown Season	27	Show more ˅	

QUESTION 3

```
38      SELECT
39          COALESCE(Payment_Method, 'Not Provided') AS Payment_Method,
40          COUNT(*) AS Customer_Count
41          FROM "TRENDS"."PUBLIC"."SHOPINGTRENDS"
42      GROUP BY COALESCE(Payment_Method, 'Not Provided');
```

↳ Results   ~ Chart   Q ▥ ⤓ ⬛ 🕐

	A PAYMENT_METHOD	# CUSTOMER_COUNT	Query Details	
1	Credit Card	44	Query duration	19ms
2	Not Provided	30		
3	PayPal	51	Rows	7
4	Debit Card	42	Query ID	01bfd653-000c-b142-0...
5	Cash	42	Show more ˅	
6	Bank Transfer	38	PAYMENT_METHOD	A
7	Venmo	53		

QUESTION 4

```
51        Customer_ID,
52        Promo_Code_Used,
53        Review_Rating,
54        Item_Purchased
55    FROM "TRENDS"."PUBLIC"."SHOPINGTRENDS"
```

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

Query Details ...

Query duration   25ms

Rows   8

Query ID   01bfd654-000c-b142-0...

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CUSTOMER_ID   #

QUESTION 5

```
63    SELECT
64        COALESCE(Shipping_Type, 'Unknown') AS Shipping_Type,
65        AVG(COALESCE(purchase_amount, 0)) AS Average_Purchase_Amount
66    FROM  "TRENDS"."PUBLIC"."SHOPINGTRENDS"
67    GROUP BY COALESCE(Shipping_Type, 'Unknown');
```

Results | **Chart**

A 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

Query Details ...

Query duration   28ms

Rows   7

Query ID   01bfd660-000c-b142-0...

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SHIPPING_TYPE   A

QUESTION 6

```
70    --Display the number of purchases per Location only for those with more than 5 purchases and no NULL Payment Method.
71    --Expected Columns: Location, Total Purchases
72    SELECT
73        Location,
74        COUNT(*) AS Total_Purchases
75        FROM  "TRENDS"."PUBLIC"."SHOPINGTRENDS"
76        WHERE Payment_Method IS NOT NULL
77        GROUP BY Location
```

Results | **Chart**

A LOCATION	# TOTAL_PURCHASES
1 Maine	41
2 Kentucky	30
3 null	24
4 New York	31
5 Oregon	30

Query Details ...

Query duration   33ms

Rows   9

Query ID   01bfd5e8-000c-b142-0...

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QUESTION 7

```
90         Customer_ID,|
91         COALESCE(purchase_amount, 0) AS purchase_amount,
92         CASE
93             WHEN COALESCE(purchase_amount, 0) > 80 THEN 'High'
94             WHEN COALESCE(purchase_amount, 0) BETWEEN 50 AND 80 THEN 'Medium'
95             ELSE 'Low'
96         END AS Spender_Category
97     FROM  "TRENDS"."PUBLIC"."SHOPINGTRENDS"
```

↳ 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

Query Details   ...

Query duration   36ms

Rows   300

Query ID   01bfd5ec-000c-b142-0...

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QUESTION 8

```
104     --Expected Columns: Customer ID, Color, Previous Purchases
105     SELECT
106         Customer_ID,
107         Color,
108         Previous_Purchases
109         FROM "TRENDS"."PUBLIC"."SHOPINGTRENDS"
110         WHERE Previous_Purchases IS NULL
111     AND Color IS NOT NULL;
```

↳ Results   ∿ Chart

# CUSTOMER_ID	A COLOR	# PREVIOUS_PURCHASES
1	8	Green	null
2	21	Yellow	null
3	25	White	null
4	37	Maroon	null
5	40	Gray	null

Query Details   ...

Query duration   32ms

Rows   36

Query ID   01bfd5ee-000c-b142-0...

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QUESTION 9

```
115     --Purchases and show the total amount spent per group, treating NULL frequencies as 'Unknown'.
116     --Expected Columns: Frequency of Purchases, Total purchase_amount
117     SELECT
118         COALESCE(Frequency_of_Purchases, 'Unknown') AS Frequency_of_Purchases,
119         SUM(COALESCE(purchase_amount, 0)) AS Total_Purchase_Amount
120     FROM  "TRENDS"."PUBLIC"."SHOPINGTRENDS"
121     GROUP BY COALESCE(Frequency_of_Purchases, 'Unknown');
122     --------------------------------------------------------------------------
```

↳ Results   ∿ Chart

A 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

Query Details   ...

Query duration   31ms

Rows   8

Query ID   01bfd5f4-000c-b142-0...

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QUESTION 10

```
126    --Display a list of all Category values with the number of times each was purchased, excluding rows where Categoryis NULL.
127    --Expected Columns: Category, Total Purchases
128    SELECT
129        Category,
130        COUNT(*) AS Total_Purchases
131        FROM "TRENDS"."PUBLIC"."SHOPINGTRENDS"
132        WHERE Category IS NOT NULL
133        GROUP BY Category;
```

Results | Chart

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

Query Details ...

Query duration   20ms

Rows   4

Query ID   01bfd5f7-000c-b142-00...

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QUESTION 11

```
144        SUM(COALESCE(purchase_amount, 0)) AS Total_Purchase_Amount
145        FROM "TRENDS"."PUBLIC"."SHOPINGTRENDS"
146        GROUP BY Location
147        ORDER BY Total_Purchase_Amount DESC
148        LIMIT 5;
```

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

Query Details ...

Query duration   28ms

Rows   5

Query ID   01bfd5fa-000c-b142-00...

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QUESTION 12

```
157        Size, |
158        COUNT(*) AS Null_Color_Count
159        FROM "TRENDS"."PUBLIC"."SHOPINGTRENDS"
160        WHERE Color IS NULL
161        GROUP BY Gender, Size;
```

Results | Chart

	GENDER	SIZE	NULL_COLOR_COUNT
1	Male	null	6
2	Male	M	7
3	Male	L	6
4	Male	S	5
5	Male	XL	5

Query Details ...

Query duration   51ms

Rows   5

Query ID   01bfd602-000c-b142-0...

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QUESTION 13

```
171     COUNT(*) AS Null_Shipping_Type_Count
172     FROM "TRENDS"."PUBLIC"."SHOPINGTRENDS"
173     WHERE Shipping_Type IS NULL
174     GROUP BY Item_Purchased
175     HAVING COUNT(*) > 3;
17/
```

↳ Results   ∼ Chart

	ITEM_PURCHASED	NULL_SHIPPING_TYPE_COUNT
1	null	4
2	Shirt	5
3	Shoes	4

Query Details   ···

Query duration   32ms

Rows   3

Query ID   01bfd604-000c-b142-0...

QUESTION 14

```
184     Payment_Method,
185     COUNT(*) AS Missing_Review_Rating_Count
186     FROM "TRENDS"."PUBLIC"."SHOPINGTRENDS"
187     WHERE Review_Rating IS NULL
188     GROUP BY Payment_Method;
100
```

↳ Results   ∼ Chart

	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
7	Bank Transfer	4

Query Details   ···

Query duration   26ms

Rows   7

Query ID   01bfd607-000c-b142-0...

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PAYMENT_METHOD   A

QUESTION 16

```
208     AVG(Age) AS Average_Age
209     FROM "TRENDS"."PUBLIC"."SHOPINGTRENDS"
210     GROUP BY COALESCE(Color, 'Missing Color')
211     HAVING COUNT(*) >= 2
212   AND COALESCE(Color, 'Missing Color') = 'Missing Color';
213
```

↳ Results   ∼ Chart

	COLOR	AVERAGE_AGE
1	Missing Color	47.8461538

Query Details   ···

Query duration   27ms

QUESTION 17

```
221  SELECT
222      CASE
223          WHEN Shipping_Type IN ('Express', 'Next Day Air') THEN 'Fast'
224          WHEN Shipping_Type = 'Standard' THEN 'Slow'
225          ELSE 'Other'
226      END AS Delivery_Speed,
227      COUNT(*) AS Customer_Count
228  FROM "TRENDS"."PUBLIC"."SHOPINGTRENDS"
229  GROUP BY
230      CASE |
```

↳ Results   ∿ Chart

	A DELIVERY_SPEED	# CUSTOMER_COUNT
1	Other	166
2	Fast	89
3	Slow	45

Query Details

Query duration   27ms

Rows   3

Query ID   01bfd620-000c-b142-0...

QUESTION 18

```
240  SELECT
241      Customer_ID,
242      purchase_amount,
243      Promo_Code_Used
244      FROM  "TRENDS"."PUBLIC"."SHOPINGTRENDS"
```

↳ 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

Query Details

Query duration   34ms

Rows   20

Query ID   01bfd623-000c-b142-0...

Show more ⌄

CUSTOMER_ID   #

QUESTION 20

```
265  SELECT
266      Customer_ID,
267      Shipping_Type,
268      purchase_amount,
269      Item_Purchased
270  FROM "TRENDS"."PUBLIC"."SHOPINGTRENDS"
```

↳ Results   ∿ Chart

	# CUSTOMER_ID	A SHIPPING_TYPE	# PURCHASE_AMOUNT	A 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

Query Details

Query duration   25ms

Rows   7

Query ID   01bfd626-000c-b142-0...

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CUSTOMER_ID   #