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Bright Coffee shop sales analysis

Methodology

Bright Coffee Shop Sales dataset file was provided. It contains daily transactional information from a coffee shop. Data was collected for the period 01/01/2023 - 30/06/2023. Different types of coffees were identified

Task 1

Miro Plan/Diagram was created/designed showing the steps followed when analysing Bright Coffee Shop Sales

Task 2

2.1 Bright Coffee Shop Sales data file was converted to CSV.

2.2 The data file was uploaded on snowflakes

Questions

2.3.1 Create a new column: transaction_time_bucket to group transactions into 30 minute intervals (Or it can be 1 hour intervals)

2.3.2 Cast unit_price properly (some entries use commas, e.g., '3,1' should be converted to 3.1)

2.3.2 Compute total_amount = unit_price * transaction_qty

2.2.4 Use SQL to group by product types, time buckets, etc.

Answers

2.3.2 The syntax that I run replaced commas (',') under the unit_price column with a dot ('.')

2.3.3 The total_amount was calculated using the syntax below

2.3.1. Creates a transaction_time_bucket to group into 1-hour intervals.

2.3.4. I classified the transaction into parts of the day: Morning, Afternoon, Evening, Night. Classification:

06:00:00 -11:59:59 for Morning

12:00:00 -16:59:59 for Afternoon

17:00:00 -19:59:59 for Evening

20:00:00 -20:59:59 for Night

The syntaxes below were used to find the answers of the questions above

```
1  SELECT
2      transaction_id,
3      transaction_date,
4      transaction_time,
5      transaction_qty,
6      store_id,
7      store_location,
8      product_id,
9
10     -- 2.3.1
11     CAST(REPLACE(unit_price, ',', '.')) AS clean_unit_price,
12
13     -- 2.3.3
14     CAST(REPLACE(unit_price, ',', '.')) AS NUMERIC) * transaction_qty AS total_amount,
15
16     -- 2.3.1
17     TO_CHAR(transaction_time, 'HH24:00') || '-' || TO_CHAR(transaction_time + interval '1 hour', 'HH24:00') AS transaction_time_bucket,
18
19     -- 2.3.4
20     CASE
21         WHEN transaction_time BETWEEN TIME '06:00:00' AND TIME '11:59:59' THEN 'Morning'
22         WHEN transaction_time BETWEEN TIME '12:00:00' AND TIME '16:59:59' THEN 'Afternoon'
23         WHEN transaction_time BETWEEN TIME '17:00:00' AND TIME '19:59:59' THEN 'Evening'
24         ELSE 'Night'
25     END AS time_of_day,
26
```

```
19
20
21 -- 2.3.4
22 CASE
23     WHEN transaction_time BETWEEN TIME '06:00:00' AND TIME '11:59:59' THEN 'Morning'
24     WHEN transaction_time BETWEEN TIME '12:00:00' AND TIME '16:59:59' THEN 'Afternoon'
25     WHEN transaction_time BETWEEN TIME '17:00:00' AND TIME '19:59:59' THEN 'Evening'
26     ELSE 'Night'
27 END AS time_of_day,
28
29 product_category,
30 product_type,
31 product_detail
32
33 FROM COFFEESHOP;
34
35
```

	TIME	TRANSACTION_QTY	STORE_ID	STORE_LOCATION	PRODUCT_ID	CLEAN_UNIT_PRICE	TOTAL_AMOUNT	TRANSACTION_TIME_BUCKET	TIME_OF_DAY	PRODUCT_CATEGORY	PRC
1		2	5	Lower Manhattan	32	3	6	07:00-08:00	Morning	Coffee	Gourm
2		2	5	Lower Manhattan	57	3	6	07:00-08:00	Morning	Tea	Brewet
3		2	5	Lower Manhattan	59	5	10	07:00-08:00	Morning	Drinking Chocolate	Hot ch
4		1	5	Lower Manhattan	22	2	2	07:00-08:00	Morning	Coffee	Drip cc
5		2	5	Lower Manhattan	57	3	6	07:00-08:00	Morning	Tea	Brewet

Task 1

