SQLTEST



DATA SCIENCE I N F I N I T Y

THE DATA

For this test, we have 5 tables that can be accessed in the grocery_db schema of the DATA SCIENCE INFINITY database

Example data from each table can be seen below:

customer_details

customer_id	distance_from_store	gender	credit_score
754	1.17	М	0.75
843	4.84		
749	1.74	М	0.65
426	4.38	F	0.57
560		М	0.54

transactions

customer_id	transaction_date	transaction_id	product_area_id	num_items	sales_cost
642	2020-04-01	435561233435	4	3	9.44
642	2020-04-01	435561233435	3	5	23.82
493	2020-07-15	436618008621	4	1	6.83
493	2020-07-15	436618008621	3	9	9.33
493	2020-07-15	436618008621	5	1	8.50

campaign_data

customer_id	campaign_name	campaign_date	mailer_type	signup_flag
74	delivery_club	2020-07-01	Mailer2	1
655	delivery_club	2020-07-01	Mailer2	0
607	delivery_club	2020-07-01	Mailer2	1
788	delivery_club	2020-07-01	Control	0
405	delivery_club	2020-07-01	Mailer1	0

product_areas

product_area_id	product_area_name	profit_margin
1	Non-Food	0.25
2	Vegetables	0.18
3	Fruit	0.14
4	Dairy	0.19
5	Meat	0.11

loyalty_scores

customer_id	customer_loyalty_score
104	0.587
69	0.156
525	0.959
181	0.418
796	0.57

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THE QUESTIONS

- 1) How many rows are there in the *transactions* table?
- 2) Return the *customer_id* for the customer who lives farthest from the store
- 3) Return the number of unique customers in the customer_details table, split by gender
- 4) What were the total sales for each *product area* name for July 2020. Return these in the order of highest sales to lowest sales
- 5) Return a list of all *customer_id's* that do NOT have a loyalty score (i.e. they are in the *customer_details* table, but not in the *loyalty_scores* table)

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