SQL TEST

2

DATA SCIENCE INFINITY

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	M	0.75
843	4.84		
749	1.74	M	0.65
426	4.38	F	0.57
560		M	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

THE QUESTIONS

1) How many unique transactions are there in the *transactions* table?

2) How many customers were in each *mailer_type* category for the *delivery club* campaign

3) Return a list of customers who spent more than $500 and had 5 or more unique transactions in the month of August 2020

4) Return a list of duplicate credit scores that exist in the customer_details table

5) Return the customer_id(s) for the customer(s) who has/have the 2nd highest credit score. Make sure your code would work for the Nth highest credit score as well