**Per-Question Explanations:-**

**Question 1.**

I check the all the tables and have a little understand of about the tables, then I combine the first name and last name together, then counted users plans with their type of savings plan column **(is\_regular\_savings and is\_fixed\_invesment)** and also join **Plans\_plan and user\_customuser** tables together with the foreign keys also doing a check with a where clause of **is\_funging** must be 1 later grouping them with their user **customuser id** also using a case function to check if the amount is greater than zero.

**Question 2.**

I counted all customer in **'user\_customuer'** table and find the average of “**avg\_txn\_per\_month” and Timestamdiff and cutdate function** to find the different between the in value and using case function to categorize the result into different grades is requested later joining **“savings\_savingsaccount” and “users\_customuser”** and grouping by frequence and frequency categories field.

**Question 3.**

I find the last seen date and also calculate the date difference from the current date with **Datediff function** and checking with **having clause** if the last seen date or last transaction date is greater than 365 days.

**Question 4.**

I calculated tenure in months **using timestampdiff** and also calculated total transactions and I also estimated customer life time value using round function to do some calculation also joining **users\_customuser and savings\_savingsaccount** tables after grouping by Id and ordering properly.

**My Challenges:**

* I had challenge with the version of my workbench. I have to uninstall and reinstall and newer version before it can work properly
* All the data base I’m currently working is clone to a Retool library because of network I address changes some functions am used to did not work properly on workbench, it took a lot of time to be use some function properly after reading a little on how it can be manipulated in my workbench or other function that can perform the same task.
* Understanding of all the dataset in each of the table to be able to answer the question in a short time