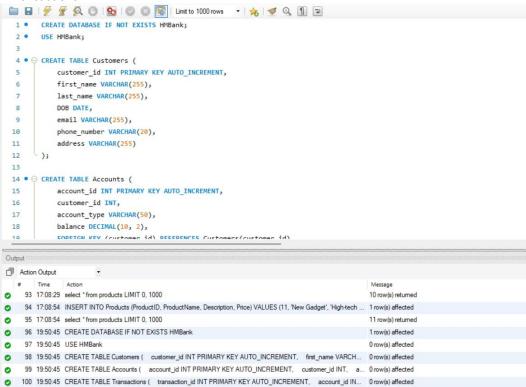
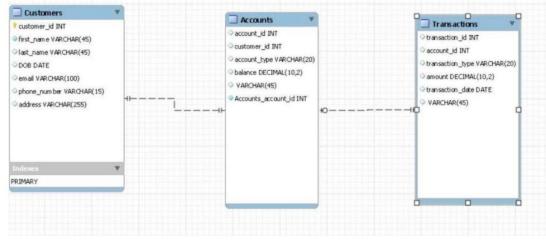
## Tasks 1: Database Design:

- 1. Create the database named "HMBank"
- 5. Create appropriate Primary Key and Foreign Key constraints for referential integrity.
- 6. Write SQL scripts to create the mentioned tables with appropriate data types, constraints, and relationships.
- Customers
- Accounts
- Transactions

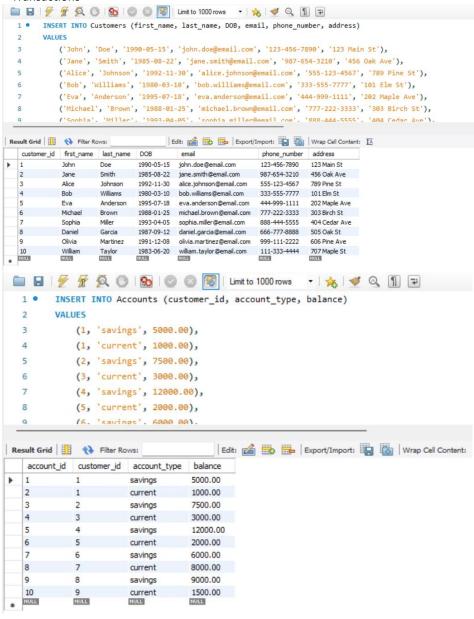


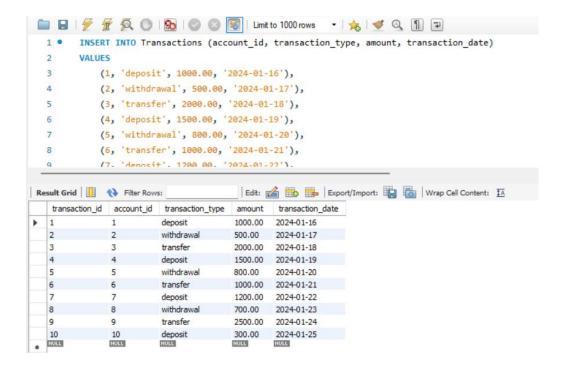
3.Create an ERD (Entity Relationship Diagram) for the database



Tasks 2: Select, Where, Between, AND, LIKE:

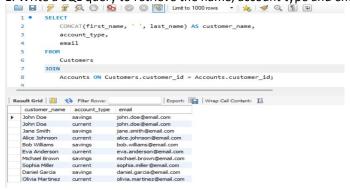
- 1. Insert at least 10 sample records into each of the following tables.
- Customers
- Accounts
- Transactions



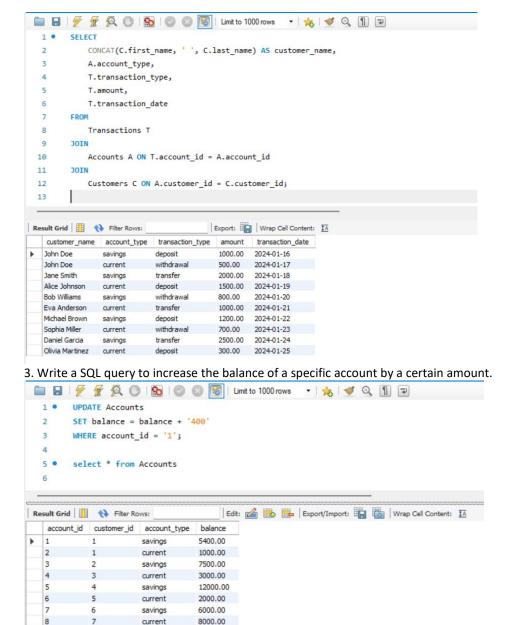


Write SQL queries for the following tasks:

1. Write a SQL query to retrieve the name, account type and email of all customers.



2. Write a SQL query to list all transaction corresponding customer.



4. Write a SQL query to Combine first and last names of customers as a full\_name.

9000.00

1500.00

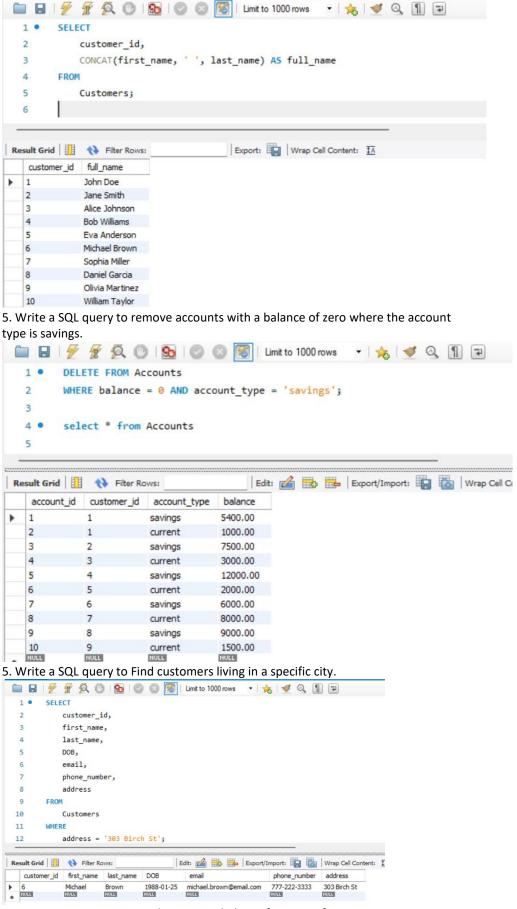
8

RIULL

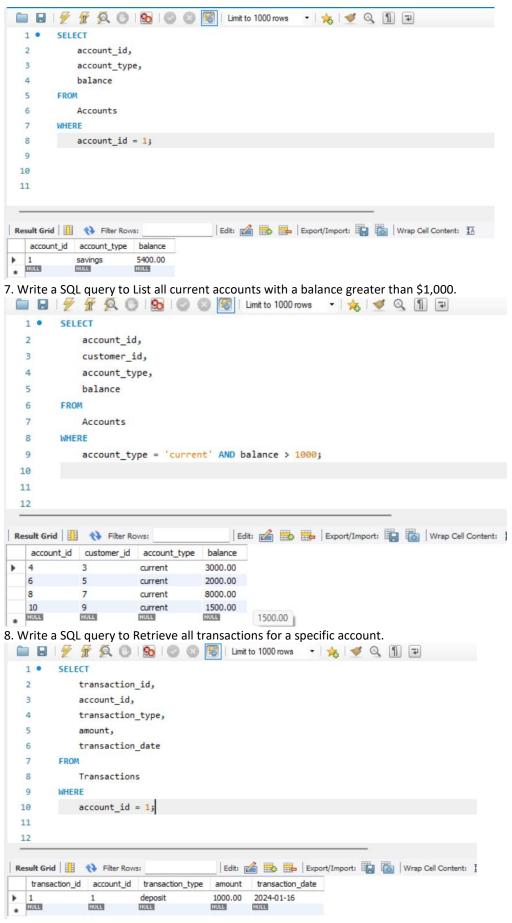
10

savings

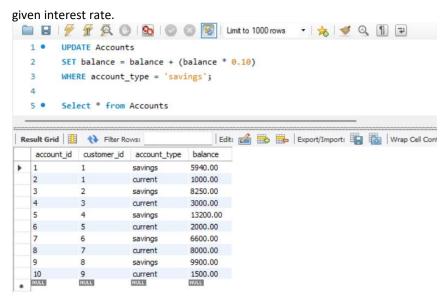
current



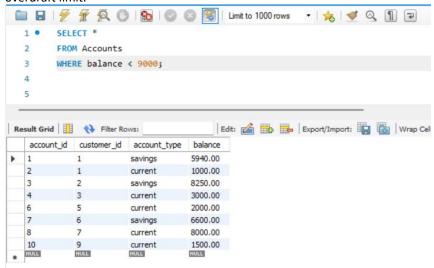
6. Write a SQL query to Get the account balance for a specific account.



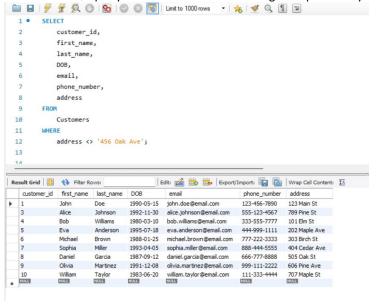
10. Write a SQL query to Calculate the interest accrued on savings accounts based on a



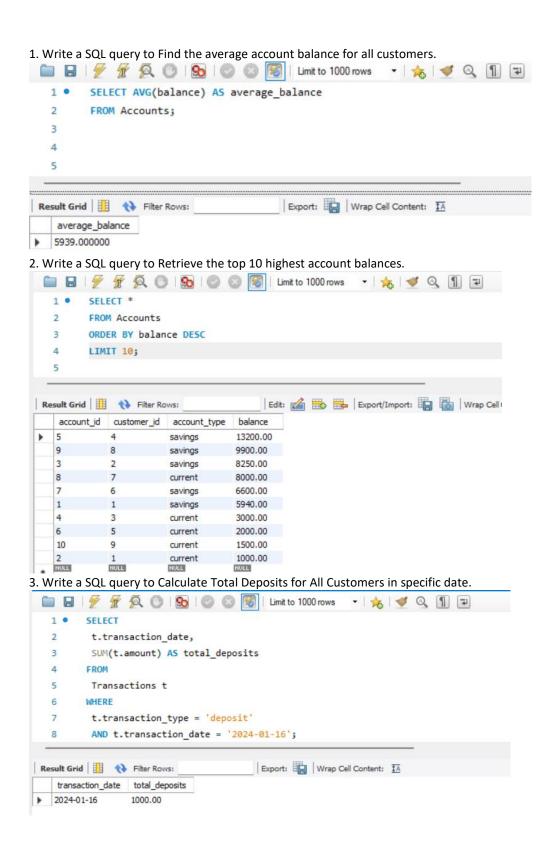
11. Write a SQL query to Identify accounts where the balance is less than a specified overdraft limit.



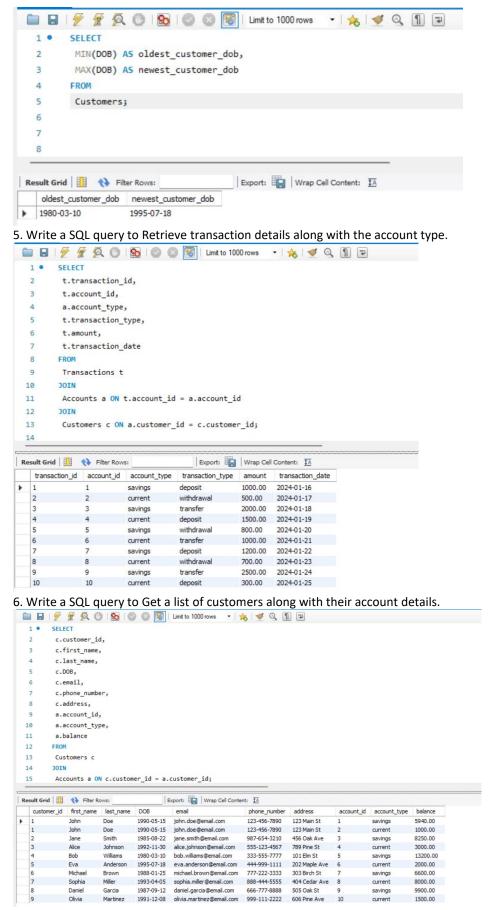
12. Write a SQL query to Find customers not living in a specific city.



Tasks 3: Aggregate functions, Having, Order By, GroupBy and Joins:

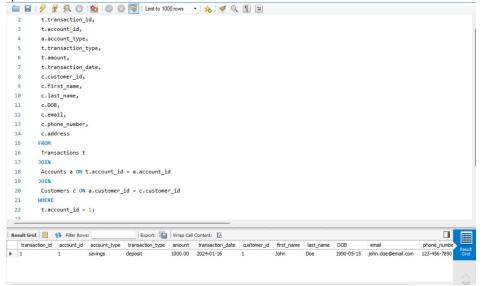


4. Write a SQL query to Find the Oldest and Newest Customers.

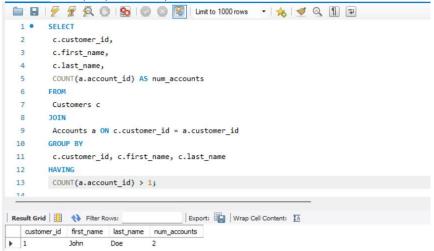


7. Write a SQL query to Retrieve transaction details along with customer information for a

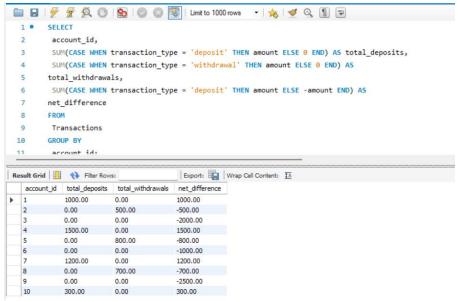
specific account.



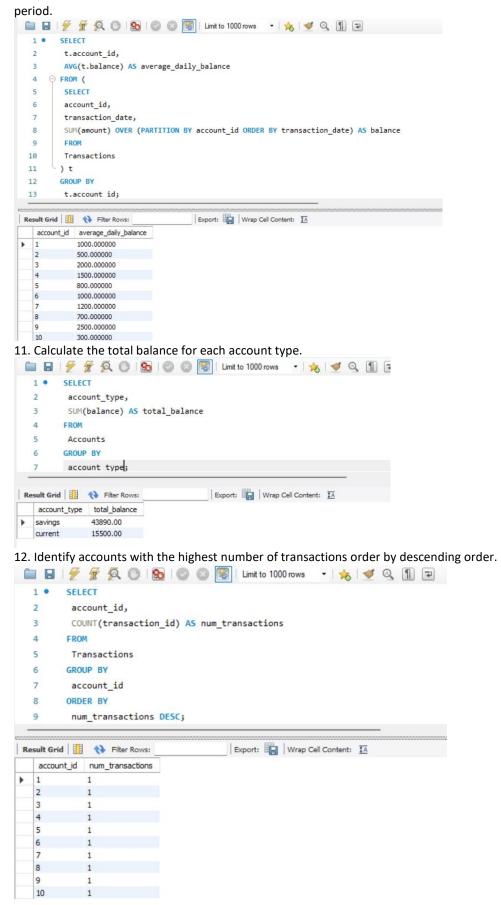
8. Write a SQL query to Identify customers who have more than one account.



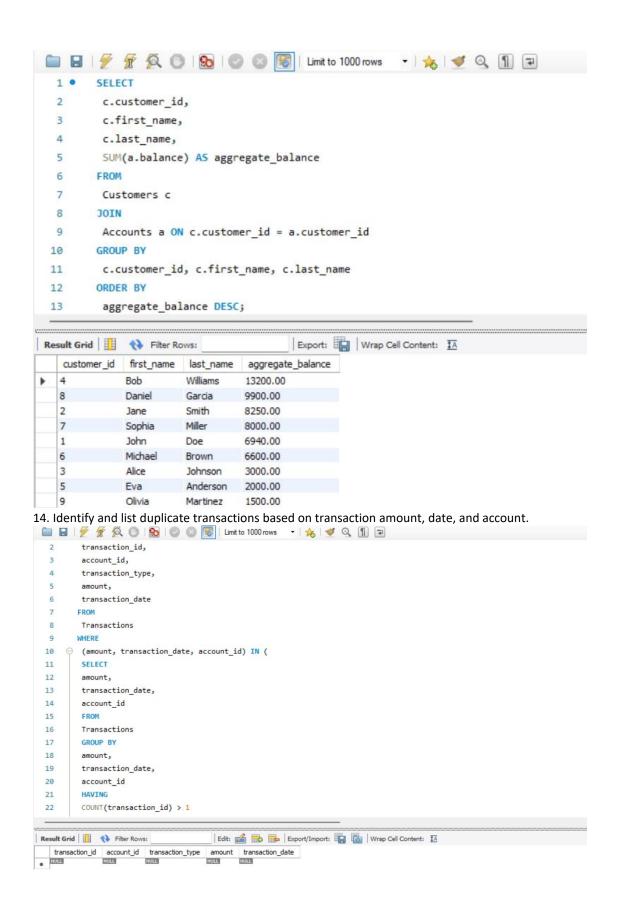
9. Write a SQL query to Calculate the difference in transaction amounts between deposits and withdrawals.



10. Write a SQL query to Calculate the average daily balance for each account over a specified

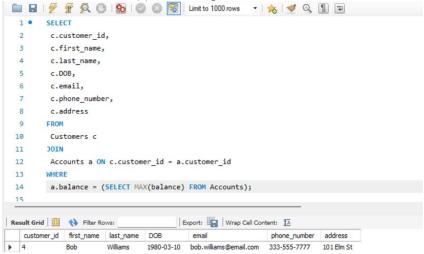


13. List customers with high aggregate account balances, along with their account types.

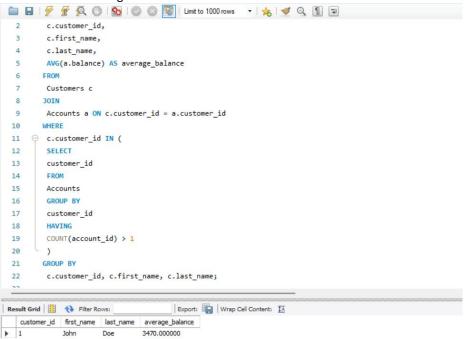


Tasks 4: Subquery and its type:

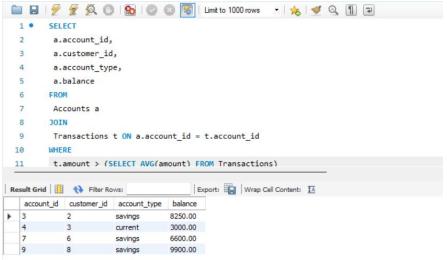
1. Retrieve the customer(s) with the highest account balance.



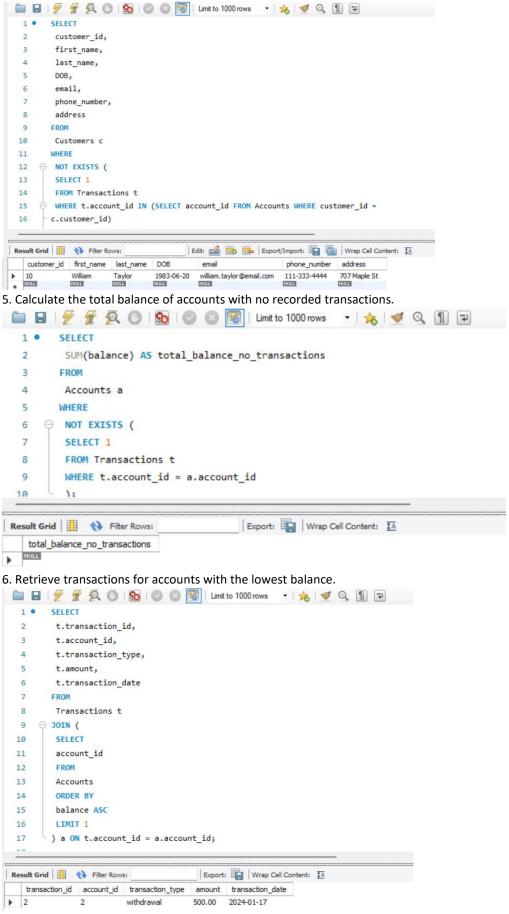
2. Calculate the average account balance for customers who have more than one account.



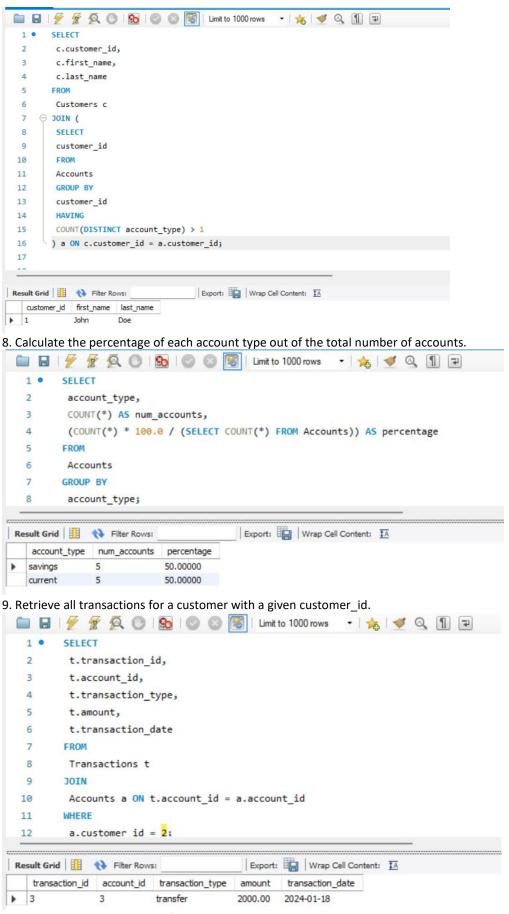
3. Retrieve accounts with transactions whose amounts exceed the average transaction amount.



4. Identify customers who have no recorded transactions.



7. Identify customers who have accounts of multiple types.



10. Calculate the total balance for each account type, including a subquery within the SELECT

## Clause

