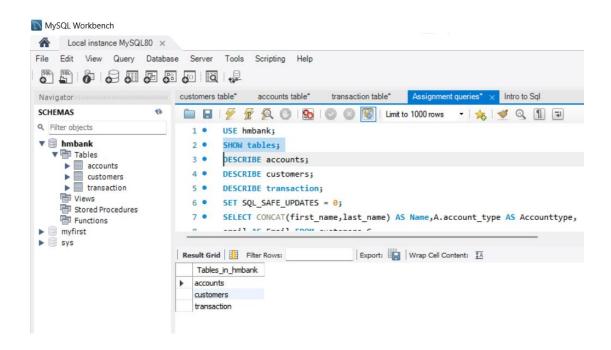
## Task 1

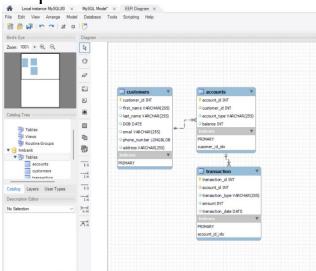
- 1. Create the database named "HMBank"
- 2. Define the schema for the Customers, Accounts, and Transactions tables based on the provided schema.

## Output:



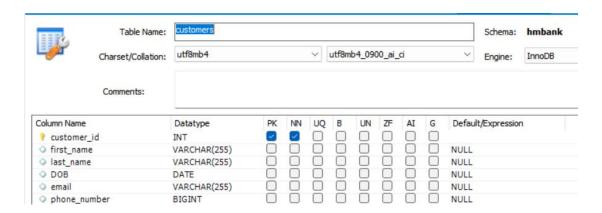
3. Create an ERD (Entity Relationship Diagram) for the database.

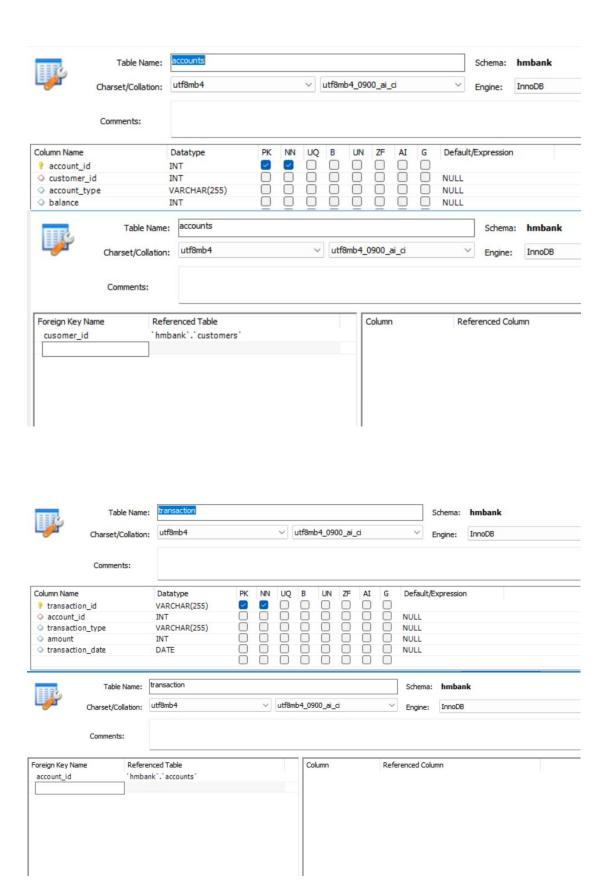
Output:



4. Create appropriate Primary Key and Foreign Key constraints for referential integrity.

## Output:





- 5. Write SQL scripts to create the mentioned tables with appropriate data types, constraints, and relationships.
- Customers Accounts Transactions Output:

CREATE TABLE Customers ( customer\_id INT , first\_name VARCHAR(255), last\_name VARCHAR(255), DOB DATE, email VARCHAR(255), phone\_number VARCHAR(255), address VARCHAR(255), PRIMARY KEY (customer\_id) );

CREATE TABLE Accounts (account\_id INT, customer\_id INT, account\_type VARCHAR(255), balance DECIMAL(10, 2), PRIMARY KEY (account\_id), FOREIGN KEY (customer\_id) REFERENCES Customers(customer\_id));

CREATE TABLE Transactions (transaction\_id INT, account\_id INT, transaction\_type VARCHAR(255), amount DECIMAL(10, 2), transaction\_date DATETIME, PRIMARY KEY (transaction\_id), FOREIGN KEY (account\_id) REFERENCES Accounts(account\_id));