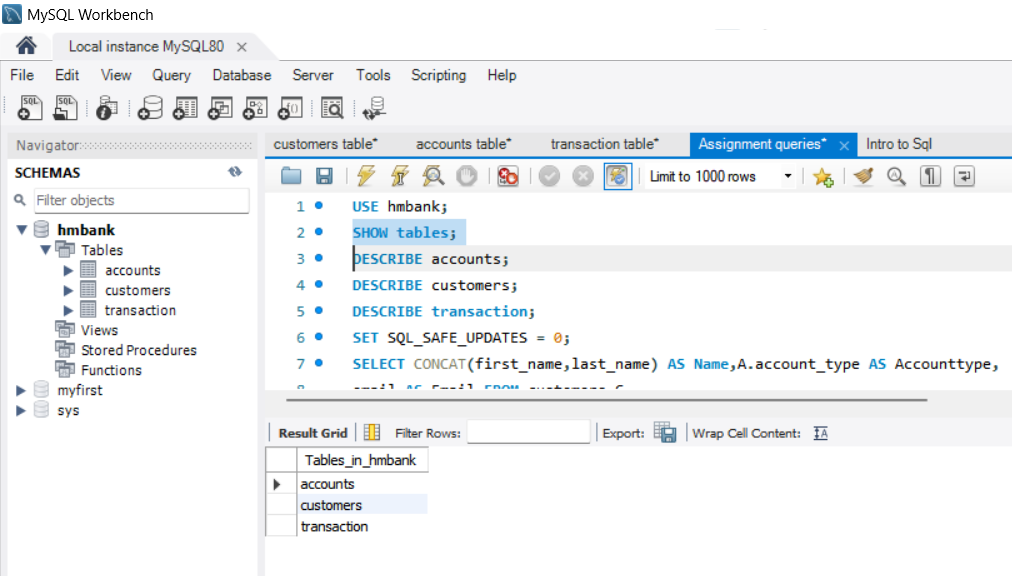
# Task 1

1. Create the database named "HMBank"

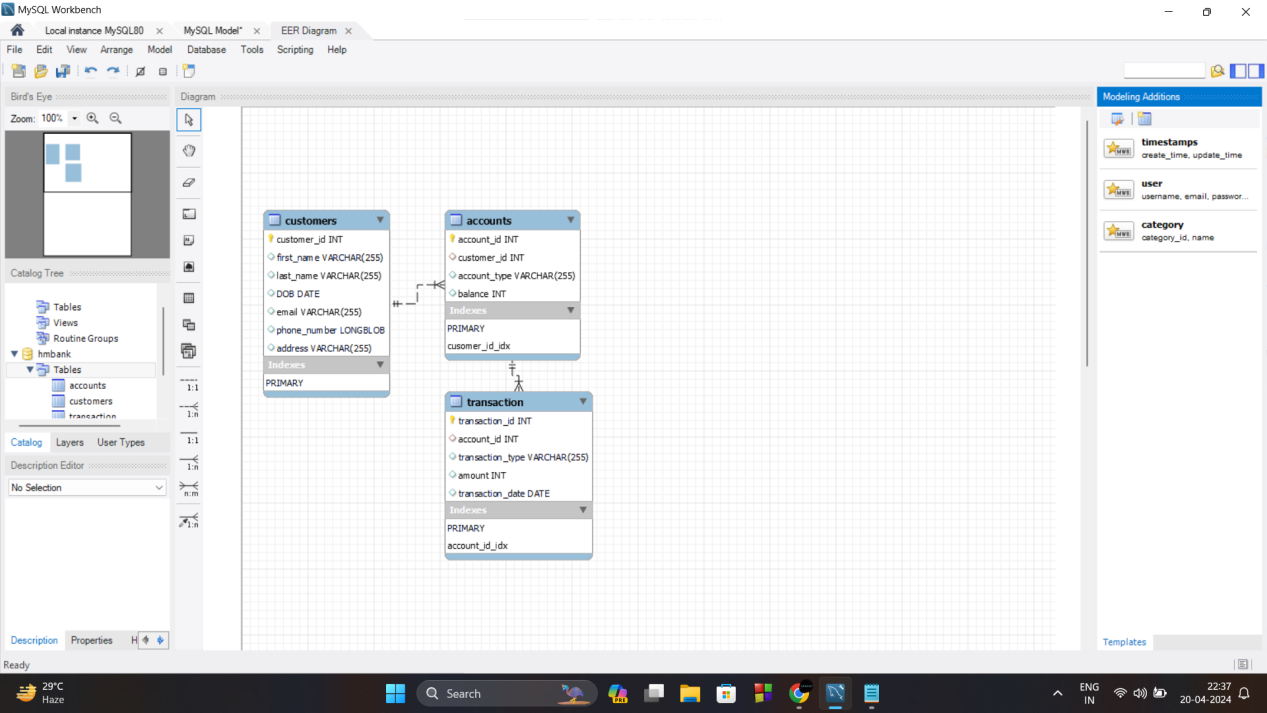
2. Define the schema for the Customers, Accounts, and Transactions tables based on the provided schema.

Output:



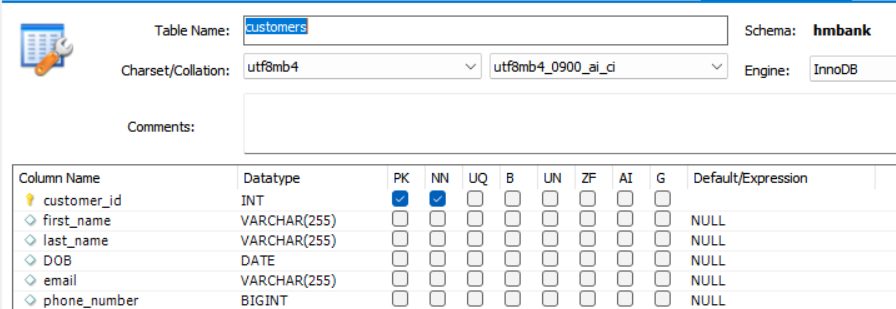
1. Create an ERD (Entity Relationship Diagram) for the database.

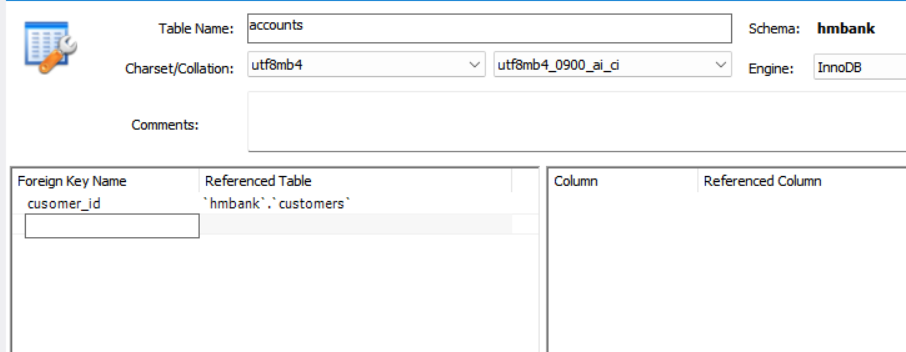
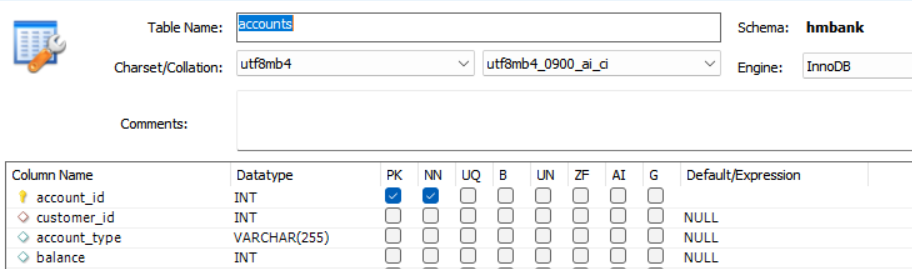
Output:

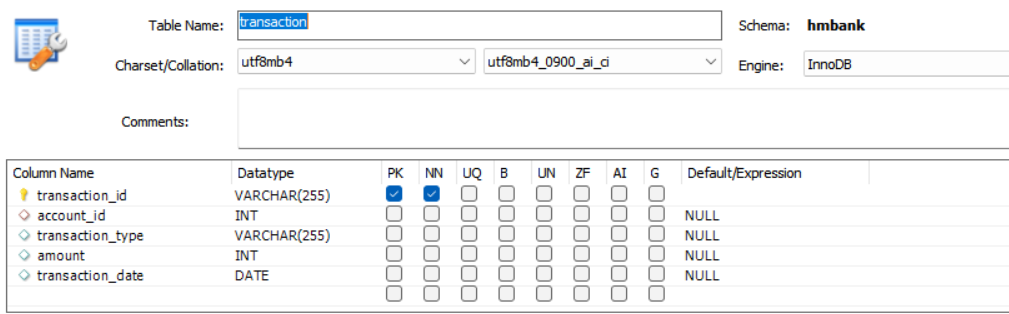


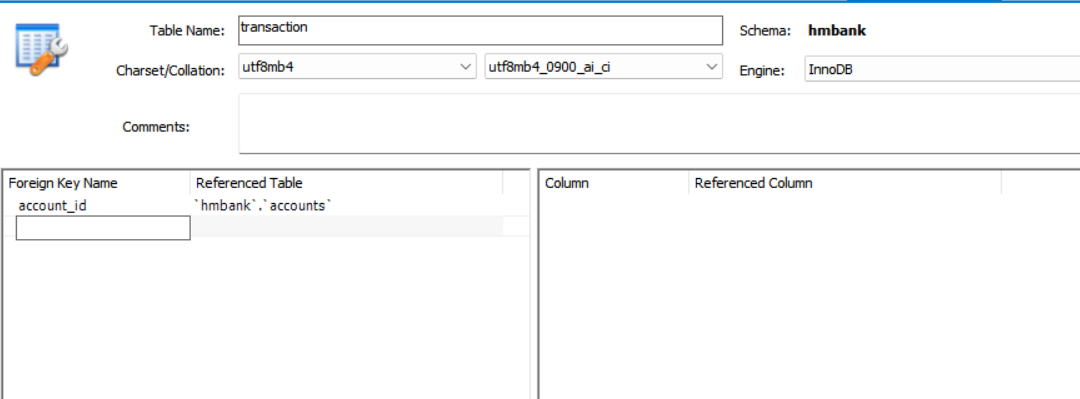
1. Create appropriate Primary Key and Foreign Key constraints for referential integrity.

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) );