DATA BASE TABLE

Tasks 1: Database Design:

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1.) CUSTOMER

CREATE TABLE Customers (

customer\_id INT PRIMARY KEY,

first\_name VARCHAR(50) NOT NULL,

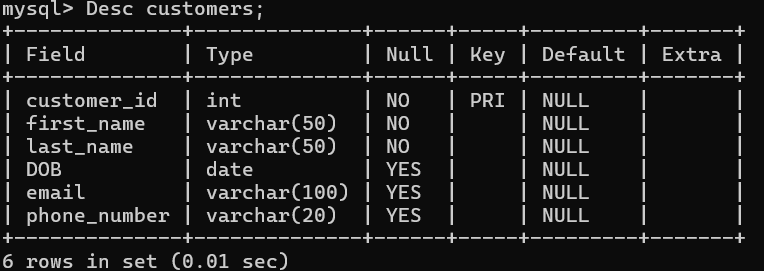
last\_name VARCHAR(50) NOT NULL,

DOB DATE,

email VARCHAR(100),

phone\_number VARCHAR(20)

);



2.) Accounts

CREATE TABLE Accounts (

account\_id INT PRIMARY KEY,

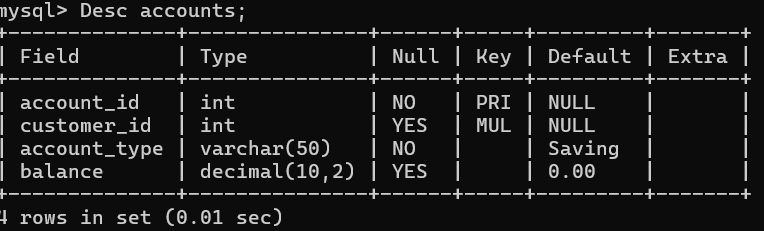
customer\_id INT,

account\_type VARCHAR(50) NOT NULL Default 'Saving',

balance DECIMAL(10, 2) DEFAULT 0.00,

CONSTRAINT Accounts\_customer\_id\_fk FOREIGN KEY (customer\_id) REFERENCES Customers(customer\_id)

);



3.) Transactions

CREATE TABLE Transactions (

transaction\_id INT PRIMARY KEY,

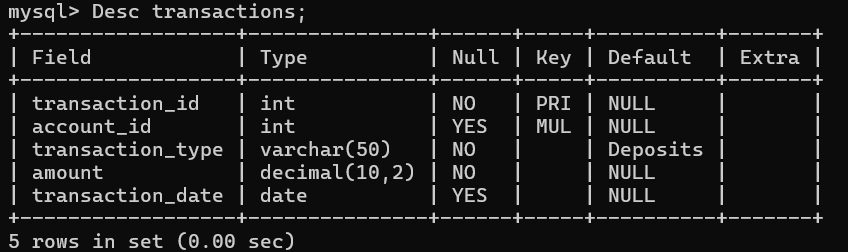
account\_id INT,

transaction\_type VARCHAR(50) NOT NULL DEFAULT 'Deposits',

amount DECIMAL(10, 2) NOT NULL,

transaction\_date DATE ,

CONSTRAINT Transactions\_account\_id\_fk FOREIGN KEY (account\_id) REFERENCES Accounts(account\_id));



Tasks 2:

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1. Insert at least 10 sample records into each of the following tables.

1.)Customers

2.)Accounts

3.)Transactions

INSERTING DATA INTO CUSTOMERS TABLE

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INSERT INTO Customers (customer\_id, first\_name, last\_name, DOB, email, phone\_number)

VALUES

(1, 'John', 'Doe', '1990-05-15', 'john.doe@example.com', '123-456-7890'),

(2, 'Jane', 'Smith', '1985-11-23', 'jane.smith@example.com', '234-567-8901'),

(3, 'Robert', 'Johnson', '1978-07-10', 'robert.johnson@example.com', '345-678-9012'),

(4, 'Emily', 'Davis', '1992-03-05', 'emily.davis@example.com', '456-789-0123'),

(5, 'Michael', 'Brown', '1980-09-22', 'michael.brown@example.com', '567-890-1234'),

(6, 'Jessica', 'Miller', '1995-12-30', 'jessica.miller@example.com', '678-901-2345'),

(7, 'David', 'Wilson', '1988-06-18', 'david.wilson@example.com', '789-012-3456'),

(8, 'Sarah', 'Moore', '1993-08-12', 'sarah.moore@example.com', '890-123-4567'),

(9, 'James', 'Taylor', '1975-04-02', 'james.taylor@example.com', '901-234-5678'),

(10, 'Laura', 'Anderson', '1991-10-27', 'laura.anderson@example.com', '012-345-6789');



INSERING DATA INTO ACCOUNTS TABLE

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INSERT INTO Accounts (account\_id, customer\_id, account\_type, balance)

VALUES

(101, 1, 'savings', 1500.00),

(102, 2, 'current', 2500.50),

(103, 3, 'zero\_balance', 0.00),

(104, 4, 'savings', 5000.75),

(105, 5, 'current', 1200.30),

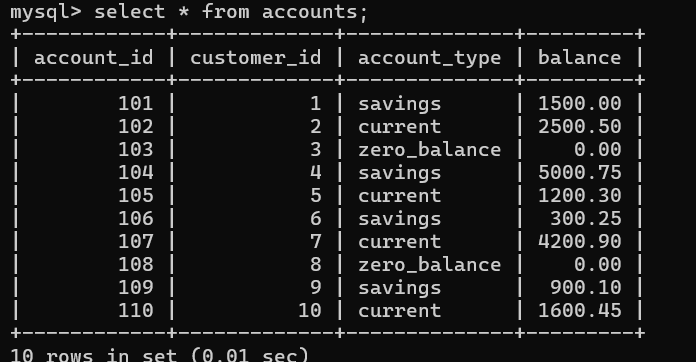
(106, 6, 'savings', 300.25),

(107, 7, 'current', 4200.90),

(108, 8, 'zero\_balance', 0.00),

(109, 9, 'savings', 900.10),

(110, 10, 'current', 1600.45);



INSERTING DATA INTO TRANSACTIONS TABLE

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INSERT INTO Transactions (transaction\_id, account\_id, transaction\_type, amount, transaction\_date) VALUES

(1, 101, 'deposit', 100.00, DEFAULT),

(2, 101, 'withdrawal', 50.00, DEFAULT),

(3, 102, 'transfer', 200.00, DEFAULT),

(4, 103, 'deposit', 300.00, DEFAULT),

(5, 102, 'withdrawal', 150.00, DEFAULT),

(6, 104, 'deposit', 500.00, DEFAULT),

(7, 105, 'transfer', 250.00, DEFAULT),

(8, 106, 'withdrawal', 100.00, DEFAULT),

(9, 107, 'deposit', 400.00, DEFAULT),

(10, 108, 'transfer', 600.00, DEFAULT);

