**HM Bank**

**Task 1**

**Table Schemas:**

1. **Customers Table:**

CREATE TABLE customers (

customer\_id **INT PRIMARY KEY,**

first\_name **VARCHAR(30) NOT NULL**,

last\_name **VARCHAR(30**),

DOB **DATE NOT NULL**,

email **VARCHAR(50) UNIQUE**,

phone\_number **BIGINT UNIQUE NOT NULL**,

address **VARCHAR(100) NOT NULL**

);

1. **Accounts Table:**

CREATE TABLE accounts(

account\_id **INT PRIMARY KEY**,

customer\_id **INT NOT NULL**,

account\_type **ENUM('savings','current','zero\_balance'),**

balance **DECIMAL(10,2) DEFAULT 0**,

CONSTRAINT fk\_account\_cus\_id FOREIGN KEY(customer\_id)

REFERENCES customers(customer\_id) **ON DELETE CASCADE**

);

1. **Transaction Table:**

CREATE TABLE transactions (

transaction\_id **INT PRIMARY KEY,**

account\_id **INT NOT NULL,**

Transaction\_type **ENUM('deposit','withdrawal','transfer’) NOT NULL,**

amount **DECIMAL(10, 2) NOT NULL**,

transaction\_date **DATETIME NOT NULL**,

CONSTRAINT fk\_transactions\_acc\_id

FOREIGN KEY (account\_id)

REFERENCES accounts(account\_id)

);

**DB Values:**

**1. Customer Table Values:**

INSERT INTO customers (customer\_id, first\_name, last\_name, DOB, email, phone\_number, address) VALUES

(1, 'Arun', 'Kumar', '1985-05-12', 'arun.kumar@gmail.com', '9876543210', '123, RS Puram, Coimbatore, Tamil Nadu'),

(2, 'Lakshmi', 'Ravi', '1990-07-22', 'lakshmi.ravi@gmail.com', '8765432109', '456, Anna Nagar, Chennai, Tamil Nadu'),

(3, 'Vikram', 'Sundar', '1988-03-15', 'vikram.sundar@gmail.com', '9876123456', '789, K.Pudur, Madurai, Tamil Nadu'),

(4, 'Priya', 'Devi', '1995-01-30', 'priya.devi@gmail.com', '9988776655', '101, Kottur, Salem, Tamil Nadu'),

(5, 'Suresh', 'Nair', '1982-04-11', 'suresh.nair@gmail.com', '9156784321', '202, Muthuramalingam Nagar, Tiruchirappalli, Tamil Nadu'),

(6, 'Divya', 'Mohan', '1992-09-28', 'divya.mohan@gmail.com', '7896541230', '303, Fairlands, Salem, Tamil Nadu'),

(7, 'Ravi', 'Shankar', '1986-06-20', 'ravi.shankar@gmail.com', '8765432108', '404, Velachery, Madurai, Tamil Nadu'),

(8, 'Anjali', 'Iyer', '1991-11-05', 'anjali.iyer@gmail.com', '9876543211', '505, Kottaiyur, Tirunelveli, Tamil Nadu'),

(9, 'Karthik', 'Srinivasan', '1989-02-14', 'karthik.srinivasan@gmail.com', '9987654321', '606, Kottapattu, Erode, Tamil Nadu'),

(10, 'Meena', 'Krishnan', '1993-08-19', 'meena.krishnan@gmail.com', '9123456780', '707, Melapalayam, Tirunelveli, Tamil Nadu'),

(11, 'Ganesh', 'Raghavan', '1987-03-02', 'ganesh.raghavan@gmail.com', '9654321098', '808, Kottur, Chennai, Tamil Nadu'),

(12, 'Sita', 'Vasudevan', '1984-12-25', 'sita.vasudevan@gmail.com', '8901234567', '909, Anna Nagar, Chennai, Tamil Nadu'),

(13, 'Rajesh', 'Kannan', '1990-10-10', 'rajesh.kannan@gmail.com', '8098765432', '111, Puthanampatti, Tiruchirappalli, Tamil Nadu'),

(14, 'Pooja', 'Aiyer', '1994-04-18', 'pooja.aiyer@gmail.com', '8234567890', '222, Somanur, Erode, Tamil Nadu'),

(15, 'Senthil', 'Murugan', '1981-09-11', 'senthil.murugan@gmail.com', '8345678901', '333, Kottapattu, Erode, Tamil Nadu'),

(16, 'Nisha', 'Natarajan', '1993-05-05', 'nisha.natarajan@gmail.com', '8456789012', '444, Mount Road, Coimbatore, Tamil Nadu'),

(17, 'Vasudev', 'Muthukumar', '1988-07-27', 'vasudev.muthukumar@gmail.com', '8567890123', '555, Kottai, Salem, Tamil Nadu'),

(18, 'Sneha', 'Ravi', '1995-03-16', 'sneha.ravi@gmail.com', '8678901234', '666, RS Puram, Coimbatore, Tamil Nadu'),

(19, 'Anand', 'Babu', '1983-02-02', 'anand.babu@gmail.com', '8789012345', '777, Puthanampatti, Tiruchirappalli, Tamil Nadu'),

(20, 'Kavitha', 'Selvam', '1992-08-21', 'kavitha.selvam@gmail.com', '8890123456', '888, Puthanampatti, Erode, Tamil Nadu');



**2. Account Table Values:**

INSERT INTO accounts (account\_id, customer\_id, account\_type, balance) VALUES

(110, 3, 'savings', 5000.00),

(111, 1, 'current', 15000.00),

(112, 1, 'zero\_balance', 0.00),

(113, 2, 'savings', 25000.00),

(114, 3, 'zero\_balance', 0.00),

(115, 2, 'current', 12000.00),

(116, 4, 'savings', 18000.00),

(117, 4, 'current', 11000.00),

(118, 5, 'zero\_balance', 0.00),

(119, 6, 'savings', 30000.00),

(120, 6, 'current', 8000.00),

(121, 7, 'zero\_balance', 0.00),

(122, 7, 'current', 22000.00),

(123, 8, 'savings', 27500.00),

(124, 9, 'savings', 14000.00),

(125, 10, 'current', 6000.00),

(126, 10, 'zero\_balance', 0.00),

(127, 11, 'savings', 15000.00),

(128, 12, 'current', 23000.00),

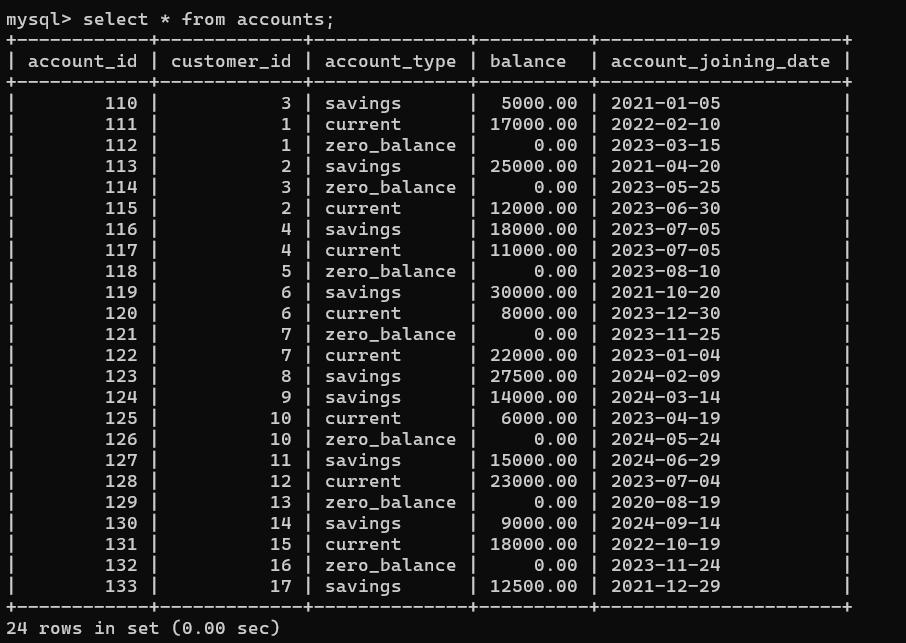
(129, 13, 'zero\_balance', 0.00),

(130, 14, 'savings', 9000.00),

(131, 15, 'current', 18000.00),

(132, 16, 'zero\_balance', 0.00),

(133, 17, 'savings', 12500.00);



**3. Transaction Table Values:**

INSERT INTO transactions

(transaction\_id, account\_id, transaction\_type, amount, transaction\_date) VALUES

(201, 110, 'deposit', 5000.00, '2024-09-01 10:15:00'),

(202, 111, 'withdrawal', 3000.00, '2024-09-02 12:30:00'),

(203, 111, 'deposit', 2000.00, '2024-09-03 14:30:00'),

(204, 112, 'deposit', 1000.00, '2024-09-03 09:45:00'),

(205, 113, 'deposit', 15000.00, '2024-09-03 14:20:00'),

(206, 113, 'withdrawal', 2000.00, '2024-09-04 10:30:00',

(207, 114, 'transfer', 2000.00, '2024-09-04 16:00:00'),

(208, 115, 'withdrawal', 8000.00, '2024-09-05 11:00:00'),

(209, 116, 'deposit', 5000.00, '2024-09-06 09:00:00'),

(210, 116, 'withdrawal', 1000.00, '2024-09-06 13:00:00'),

(211, 117, 'withdrawal', 2000.00, '2024-09-06 14:30:00'),

(212, 118, 'transfer', 4000.00, '2024-09-07 10:00:00'),

(213, 119, 'deposit', 3000.00, '2024-09-08 11:15:00'),

(214, 119, 'withdrawal', 1500.00, '2024-09-08 12:45:00'),

(215, 120, 'deposit', 7000.00, '2024-09-09 13:00:00'),

(216, 120, 'withdrawal', 3500.00, '2024-09-10 10:30:00'),

(217, 121, 'transfer', 3500.00, '2024-09-10 15:30:00'),

(218, 122, 'deposit', 10000.00, '2024-09-11 14:45:00'),

(219, 123, 'withdrawal', 5000.00, '2024-09-12 16:00:00'),

(220, 123, 'deposit', 2000.00, '2024-09-13 09:15:00');

