CREATE DATABASE payment\_gateway\_system;

USE payment\_gateway\_system;

CREATE TABLE user\_details (

user\_id INT AUTO\_INCREMENT PRIMARY KEY,

user\_name VARCHAR(50) NOT NULL UNIQUE,

password VARCHAR(255) NOT NULL,

first\_name VARCHAR(50) NOT NULL,

last\_name VARCHAR(50) NOT NULL,

phone VARCHAR(15) NOT NULL,

email VARCHAR(100) NOT NULL UNIQUE,

address TEXT NOT NULL

);

ALTER TABLE user\_details RENAME COLUMN password TO pass\_word;

SELECT\*FROM user\_details;

INSERT INTO user\_details (user\_name, password, first\_name, last\_name, phone, email, address) VALUES

('mahendra\_varma', 'password123', 'mahendra', 'varma', '1234567890', 'mv@gmail.com', '123 Main St, kakinada,AP'),

('venkat\_ramana', 'password456', 'Venkat', 'ramana', '0987654321', 'vr@gmail.com', '456 gandhi St,hyderabad , TS'),

('sai\_madhav', 'password789', 'sai', 'madhav', '1122334455', 'sm.j@gmail.com', '789 Oak St, banglore, karnataka'),

('tulsi\_das', 'password101', 'tulsi', 'das', '5566778899', 'td@mail.com', '101 marina St, chennai, TN'),

('vinesh\_kumar', 'password202', 'vinesh', 'kumar', '9988776655', 'vk@mail.com', '202 waltair St, vizag, AP');

CREATE TABLE user\_account\_details (

user\_account\_id INT AUTO\_INCREMENT PRIMARY KEY,

user\_id INT NOT NULL,

account\_open\_date DATE NOT NULL,

account\_close\_date DATE,

current\_wallet\_balance DECIMAL(10, 2) NOT NULL DEFAULT 0.00,

linked\_bank\_accounts\_count INT NOT NULL DEFAULT 0,

wallet\_pin VARCHAR(4) NOT NULL,

FOREIGN KEY (user\_id) REFERENCES user\_details(user\_id)

);

INSERT INTO user\_account\_details (user\_id, account\_open\_date, account\_close\_date, current\_wallet\_balance, linked\_bank\_accounts\_count, wallet\_pin) VALUES

(1, '2023-01-01', NULL, 1000.00, 1, '1234'),

(2, '2023-02-01', NULL, 500.00, 2, '5678'),

(3, '2023-03-01', NULL, 750.00, 1, '9101'),

(4, '2023-04-01', NULL, 1200.00, 3, '1122'),

(5, '2023-05-01', NULL, 300.00, 1, '3344');

SELECT\* FROM user\_account\_details;

# ALTER TABLE user\_account\_details AUTO\_INCREMENT = 101;

# UPDATE user\_account\_details SET user\_account\_id=101 WHERE user\_account\_id=1;

CREATE TABLE bank\_accounts (

bank\_account\_id INT AUTO\_INCREMENT PRIMARY KEY,

user\_account\_id INT NOT NULL,

user\_id INT NOT NULL,

account\_number VARCHAR(20) NOT NULL,

ifsc\_code VARCHAR(15) NOT NULL,

bank\_name VARCHAR(100) NOT NULL,

bank\_account\_branch\_location VARCHAR(100) NOT NULL,

is\_active VARCHAR(10) NOT NULL,

FOREIGN KEY (user\_account\_id) REFERENCES user\_account\_details(user\_account\_id),

FOREIGN KEY (user\_id) REFERENCES user\_details(user\_id)

);

INSERT INTO bank\_accounts (user\_account\_id, user\_id, account\_number, ifsc\_code, bank\_name, bank\_account\_branch\_location, is\_active) VALUES

(1, 1, '123456789012', 'ABCD1234567', 'State Bank', 'City Branch 1', TRUE),

(2, 2, '987654321098', 'EFGH7654321', 'National Bank', 'City Branch 2', TRUE),

(3, 3, '112233445566', 'IJKL1122334', 'Global Bank', 'City Branch 3', TRUE),

(4, 4, '998877665544', 'MNOP9988776', 'City Bank', 'City Branch 4', TRUE),

(5, 5, '556677889900', 'QRST5566778', 'International Bank', 'City Branch 5', TRUE);

SELECT\*FROM bank\_accounts;

ALTER TABLE bank\_accounts CHANGE is\_active account\_status ENUM('ACTIVE','INACTIVE','FROZEN','CLOSED');

UPDATE bank\_accounts SET account\_status = 'ACTIVE' WHERE user\_account\_id =1;

CREATE TABLE source\_types (

source\_id INT AUTO\_INCREMENT PRIMARY KEY,

source\_type\_code VARCHAR(50) NOT NULL UNIQUE

);

INSERT INTO source\_types (source\_type\_code) VALUES

('Bank Account'),

('Wallet Account'),

('Third Party Transaction');

ALTER TABLE source\_types ADD COLUMN source\_type\_description VARCHAR(20)NOT NULL ;

#UPDATE source\_types SET source\_type\_description = source\_type\_code;

#UPDATE source\_types SET source\_type\_description = source\_type\_code WHERE source\_id IS NOT NULL;

ALTER TABLE source\_types MODIFY COLUMN source\_type\_description VARCHAR(100) NOT NULL;

UPDATE source\_types SET source\_type\_description = source\_type\_code WHERE source\_id > 0;

UPDATE source\_types SET source\_type\_code = 'BA' WHERE source\_id=1;

UPDATE source\_types SET source\_type\_code = 'WA' WHERE source\_id=2;

UPDATE source\_types SET source\_type\_code = 'TPA' WHERE source\_id=3;

SELECT\*FROM source\_types;

CREATE TABLE transaction\_details (

transaction\_id INT AUTO\_INCREMENT PRIMARY KEY,

transaction\_date\_time DATETIME NOT NULL,

source\_id INT NOT NULL,

destination\_id INT NOT NULL,

source\_type\_id INT NOT NULL,

destination\_type\_id INT NOT NULL,

FOREIGN KEY (source\_type\_id) REFERENCES source\_types(source\_id),

FOREIGN KEY (destination\_type\_id) REFERENCES source\_types(source\_id)

);

INSERT INTO transaction\_details (transaction\_date\_time, source\_id, destination\_id, source\_type\_id, destination\_type\_id) VALUES

('2023-09-01 10:00:00', 1, 2, 1, 2),

('2023-09-02 11:30:00', 2, 3, 2, 1),

('2023-09-03 12:45:00', 3, 4, 1, 3),

('2023-09-04 14:15:00', 4, 5, 3, 2),

('2023-09-05 15:30:00', 5, 1, 2, 1);

SELECT\*FROM transaction\_details;