create database buddiesInsurance;

use buddiesInsurance;

drop database buddiesInsurance;

-- Disable foreign key checks for easier table creation in case of circular dependencies

SET FOREIGN\_KEY\_CHECKS = 0;

-- 1. Roles Table

CREATE TABLE IF NOT EXISTS Roles (

role\_id INT PRIMARY KEY AUTO\_INCREMENT,

role\_name VARCHAR(50) NOT NULL UNIQUE

);

INSERT INTO Roles (role\_name) VALUES ('admin'), ('csr'), ('underwriter'), ('customer');

/\*

Columns for Roles Table:

role\_id: Unique identifier for the role

role\_name: Name of the role (e.g., Admin, CSR, Underwriter, Customer)

\*/

select \* from users;

-- 2. Users Table

CREATE TABLE IF NOT EXISTS Users (

user\_id INT PRIMARY KEY AUTO\_INCREMENT,

username VARCHAR(100) NOT NULL UNIQUE,

password\_hash VARCHAR(255) NOT NULL,

email VARCHAR(255) NOT NULL UNIQUE,

role\_id INT NOT NULL,

created\_at TIMESTAMP DEFAULT CURRENT\_TIMESTAMP,

last\_login TIMESTAMP NULL,

FOREIGN KEY (role\_id) REFERENCES Roles(role\_id) ON DELETE CASCADE ON UPDATE CASCADE

);

/\*

Columns for Users Table:

user\_id: Unique identifier for the user

username: Unique username for login

password\_hash: Hashed password for security

email: User's email address, used for communication and as an alternative login identifier

role\_id: Foreign key linking to the Roles table, defining the user's role

created\_at: Timestamp when the user account was created

last\_login: Timestamp of the user's last login

\*/

-- 3. Customers Table

CREATE TABLE IF NOT EXISTS Customers (

customer\_id INT PRIMARY KEY,

first\_name VARCHAR(100) NOT NULL,

last\_name VARCHAR(100) NOT NULL,

date\_of\_birth DATE NOT NULL,

gender ENUM('Male', 'Female', 'Other'),

aadhar\_number VARCHAR(12) UNIQUE,

phone\_number VARCHAR(20) NOT NULL,

address\_line1 VARCHAR(255) NOT NULL,

address\_line2 VARCHAR(255) NULL,

city VARCHAR(100) NOT NULL,

state VARCHAR(100) NOT NULL,

zip\_code VARCHAR(10) NOT NULL,

annual\_income DECIMAL(15, 2) NULL, -- Added: Customer's annual income

FOREIGN KEY (customer\_id) REFERENCES Users(user\_id) ON DELETE CASCADE ON UPDATE CASCADE

);

/\*

Columns for Customers Table:

customer\_id: Primary key, also a foreign key linking directly to the Users table (user\_id for customer type users)

first\_name: Customer's first name

last\_name: Customer's last name

date\_of\_birth: Customer's date of birth

gender: Customer's gender

aadhar\_number: Unique Aadhar card number for identification (Indian context)

phone\_number: Customer's primary phone number

address\_line1: First line of the customer's address

address\_line2: Second line of the customer's address (optional)

city: City of the customer's address

state: State of the customer's address

zip\_code: Postal code of the customer's address

annual\_income: Customer's declared annual income

\*/

-- 4. PolicyTypes Table

CREATE TABLE IF NOT EXISTS PolicyTypes (

policy\_type\_id INT PRIMARY KEY AUTO\_INCREMENT,

type\_name VARCHAR(100) NOT NULL UNIQUE,

description TEXT NULL, -- Added: Description of the policy type

is\_active BOOLEAN DEFAULT TRUE -- Added: Indicates if the policy type is currently active

);

/\*

Columns for PolicyTypes Table:

policy\_type\_id: Unique identifier for the policy type

type\_name: Name of the policy type (e.g., Motor, Health, Product)

description: A detailed description of the policy type

is\_active: Boolean flag indicating if the policy type is currently active or offered

\*/

-- 5. PolicyDescriptions Table

CREATE TABLE IF NOT EXISTS PolicyDescriptions (

description\_id INT PRIMARY KEY AUTO\_INCREMENT,

policy\_type\_id INT NOT NULL,

name VARCHAR(255) NOT NULL,

sum\_insured\_range\_min DECIMAL(15, 2),

sum\_insured\_range\_max DECIMAL(15, 2),

premium\_calculation\_notes TEXT,

coverages\_description TEXT,

benefits\_description TEXT,

terms\_and\_conditions TEXT,

FOREIGN KEY (policy\_type\_id) REFERENCES PolicyTypes(policy\_type\_id) ON DELETE CASCADE ON UPDATE CASCADE

);

/\*

Columns for PolicyDescriptions Table:

description\_id: Unique identifier for the policy description

policy\_type\_id: Foreign key linking to the PolicyTypes table

name: Name of the specific policy plan (e.g., "Basic Motor", "Premium Health")

sum\_insured\_range\_min: Minimum sum insured amount for this policy plan

sum\_insured\_range\_max: Maximum sum insured amount for this policy plan

premium\_calculation\_notes: Notes or logic related to premium calculation for this plan

coverages\_description: Detailed description of what the policy covers

benefits\_description: Detailed description of benefits provided by the policy

terms\_and\_conditions: General terms and conditions applicable to this policy plan

\*/

-- 6. Policies Table

CREATE TABLE IF NOT EXISTS Policies (

policy\_id INT PRIMARY KEY AUTO\_INCREMENT,

policy\_number VARCHAR(50) NOT NULL UNIQUE,

customer\_id INT NOT NULL,

policy\_type\_id INT NOT NULL,

description\_id INT NULL,

start\_date DATE NOT NULL,

end\_date DATE NOT NULL,

premium\_amount DECIMAL(15, 2) NOT NULL,

sum\_insured DECIMAL(15, 2) NOT NULL,

policy\_status ENUM('Active', 'Lapsed', 'Cancelled', 'Expired', 'Pending') DEFAULT 'Pending',

issue\_date TIMESTAMP DEFAULT CURRENT\_TIMESTAMP,

FOREIGN KEY (customer\_id) REFERENCES Customers(customer\_id) ON DELETE CASCADE ON UPDATE CASCADE,

FOREIGN KEY (policy\_type\_id) REFERENCES PolicyTypes(policy\_type\_id) ON DELETE CASCADE ON UPDATE CASCADE,

FOREIGN KEY (description\_id) REFERENCES PolicyDescriptions(description\_id) ON DELETE SET NULL ON UPDATE CASCADE

);

/\*

Columns for Policies Table:

policy\_id: Unique identifier for the policy

policy\_number: Unique identifier/number for the policy, usually auto-generated/sequential

customer\_id: Foreign key linking to the Customers table, indicating who owns the policy

policy\_type\_id: Foreign key linking to the PolicyTypes table, indicating the type of policy

description\_id: Foreign key linking to PolicyDescriptions, referring to the specific plan/product description

start\_date: Date when the policy coverage begins

end\_date: Date when the policy coverage ends

premium\_amount: The total premium paid/payable for the policy

sum\_insured: The maximum amount the insurer will pay under the policy

policy\_status: Current status of the policy

issue\_date: Timestamp when the policy was issued

\*/

-- 7. Vehicles Table

CREATE TABLE IF NOT EXISTS Vehicles (

vehicle\_id INT PRIMARY KEY AUTO\_INCREMENT,

registration\_number VARCHAR(20) NOT NULL UNIQUE,

vehicle\_type ENUM('2 Wheeler', '4 Wheeler') NOT NULL,

make VARCHAR(100) NOT NULL,

model VARCHAR(100) NOT NULL,

manufacturing\_year YEAR NOT NULL,

chassis\_number VARCHAR(50) NOT NULL UNIQUE,

engine\_number VARCHAR(50) NOT NULL UNIQUE,

seating\_capacity INT,

color VARCHAR(50)

);

/\*

Columns for Vehicles Table:

vehicle\_id: Unique identifier for the vehicle

registration\_number: Unique vehicle registration number

vehicle\_type: Type of vehicle (e.g., 2 Wheeler, 4 Wheeler)

make: Manufacturer of the vehicle (e.g., Honda, Maruti Suzuki)

model: Model of the vehicle (e.g., Activa, Swift)

manufacturing\_year: Year the vehicle was manufactured

chassis\_number: Unique chassis number of the vehicle

engine\_number: Unique engine number of the vehicle

seating\_capacity: Seating capacity of the vehicle

color: Color of the vehicle

\*/

-- 8. MotorPolicyDetails Table

CREATE TABLE IF NOT EXISTS MotorPolicyDetails (

policy\_id INT PRIMARY KEY,

vehicle\_id INT NOT NULL,

driver\_license\_number VARCHAR(50) NULL,

FOREIGN KEY (policy\_id) REFERENCES Policies(policy\_id) ON DELETE CASCADE ON UPDATE CASCADE,

FOREIGN KEY (vehicle\_id) REFERENCES Vehicles(vehicle\_id) ON DELETE CASCADE ON UPDATE CASCADE

);

/\*

Columns for MotorPolicyDetails Table:

policy\_id: Primary key, also a foreign key linking to the Policies table

vehicle\_id: Foreign key linking to the Vehicles table, identifying the insured vehicle

driver\_license\_number: Driver's license number of the primary driver (optional)

\*/

-- 9. HealthPolicyDetails Table

CREATE TABLE IF NOT EXISTS HealthPolicyDetails (

policy\_id INT PRIMARY KEY,

medical\_history\_notes TEXT NULL,

pre\_existing\_conditions TEXT NULL,

hospital\_network\_preference VARCHAR(255) NULL,

FOREIGN KEY (policy\_id) REFERENCES Policies(policy\_id) ON DELETE CASCADE ON UPDATE CASCADE

);

/\*

Columns for HealthPolicyDetails Table:

policy\_id: Primary key, also a foreign key linking to the Policies table

medical\_history\_notes: Notes regarding the insured's medical history

pre\_existing\_conditions: Description of any pre-existing medical conditions

hospital\_network\_preference: Preferred hospital network for the policyholder

\*/

-- 10. ProductPolicyDetails Table

CREATE TABLE IF NOT EXISTS ProductPolicyDetails (

policy\_id INT PRIMARY KEY,

product\_category VARCHAR(100) NOT NULL,

product\_name VARCHAR(255) NOT NULL,

product\_serial\_number VARCHAR(100) UNIQUE,

purchase\_date DATE NOT NULL,

invoice\_number VARCHAR(100) NULL,

FOREIGN KEY (policy\_id) REFERENCES Policies(policy\_id) ON DELETE CASCADE ON UPDATE CASCADE

);

/\*

Columns for ProductPolicyDetails Table:

policy\_id: Primary key, also a foreign key linking to the Policies table

product\_category: Category of the insured product (e.g., Electronics, Home Appliance)

product\_name: Name of the insured product

product\_serial\_number: Unique serial number of the product

purchase\_date: Date when the product was purchased

invoice\_number: Invoice number of the product purchase

\*/

-- 11. ClaimStatuses Table

CREATE TABLE IF NOT EXISTS ClaimStatuses (

status\_id INT PRIMARY KEY AUTO\_INCREMENT,

status\_name VARCHAR(50) NOT NULL UNIQUE

);

/\*

Columns for ClaimStatuses Table:

status\_id: Unique identifier for the claim status

status\_name: Name of the claim status (e.g., Submitted, Under Review, Approved, Rejected, Closed)

\*/

-- 12. Claims Table

CREATE TABLE IF NOT EXISTS Claims (

claim\_id INT PRIMARY KEY AUTO\_INCREMENT,

claim\_number VARCHAR(50) NOT NULL UNIQUE,

policy\_id INT NOT NULL,

customer\_id INT NOT NULL,

claim\_date TIMESTAMP DEFAULT CURRENT\_TIMESTAMP,

incident\_date DATE NOT NULL,

incident\_description TEXT NOT NULL,

claim\_amount\_requested DECIMAL(15, 2) NOT NULL,

claim\_amount\_approved DECIMAL(15, 2) NULL,

status\_id INT NOT NULL,

date\_resolved DATE NULL,

reviewed\_by\_user\_id INT NULL,

FOREIGN KEY (policy\_id) REFERENCES Policies(policy\_id) ON DELETE CASCADE ON UPDATE CASCADE,

FOREIGN KEY (customer\_id) REFERENCES Customers(customer\_id) ON DELETE CASCADE ON UPDATE CASCADE,

FOREIGN KEY (status\_id) REFERENCES ClaimStatuses(status\_id) ON DELETE CASCADE ON UPDATE CASCADE,

FOREIGN KEY (reviewed\_by\_user\_id) REFERENCES Users(user\_id) ON DELETE SET NULL ON UPDATE CASCADE

);

/\*

Columns for Claims Table:

claim\_id: Unique identifier for the claim

claim\_number: Unique claim number for tracking

policy\_id: Foreign key linking to the Policies table, indicating the policy under which the claim is made

customer\_id: Foreign key linking to the Customers table, indicating who filed the claim

claim\_date: Date and time when the claim was filed

incident\_date: Date when the incident leading to the claim occurred

incident\_description: Detailed description of the incident

claim\_amount\_requested: The amount of compensation requested by the claimant

claim\_amount\_approved: The amount approved by the insurer (null until approved)

status\_id: Foreign key linking to ClaimStatuses, indicating the current status of the claim

date\_resolved: Date when the claim was resolved (approved, rejected, or closed)

reviewed\_by\_user\_id: Foreign key linking to Users, identifying the CSR or Underwriter who last reviewed the claim

\*/

-- 13. ClaimDocuments Table

CREATE TABLE IF NOT EXISTS ClaimDocuments (

document\_id INT PRIMARY KEY AUTO\_INCREMENT,

claim\_id INT NOT NULL,

document\_type VARCHAR(100) NOT NULL, -- Examples: 'FIR Copy', 'Medical Bill', 'Product Purchase Bill', 'Photos', 'Repair Estimate'

file\_path VARCHAR(255) NOT NULL,

uploaded\_at TIMESTAMP DEFAULT CURRENT\_TIMESTAMP,

FOREIGN KEY (claim\_id) REFERENCES Claims(claim\_id) ON DELETE CASCADE ON UPDATE CASCADE

);

/\*

Columns for ClaimDocuments Table:

document\_id: Unique identifier for the document

claim\_id: Foreign key linking to the Claims table

document\_type: Type of document (e.g., Medical Bill, Police Report, Photos, Repair Estimate). This column will store values like 'FIR Copy', 'Medical Bill', or 'Product Purchase Bill'.

file\_path: Path or URL to the stored document file (e.g., S3 URL, local file path)

uploaded\_at: Timestamp when the document was uploaded

\*/

-- 14. PolicyHistory Table

CREATE TABLE IF NOT EXISTS PolicyHistory (

history\_id INT PRIMARY KEY AUTO\_INCREMENT,

policy\_id INT NOT NULL,

change\_date TIMESTAMP DEFAULT CURRENT\_TIMESTAMP,

description\_of\_change TEXT NOT NULL,

changed\_by\_user\_id INT NULL,

FOREIGN KEY (policy\_id) REFERENCES Policies(policy\_id) ON DELETE CASCADE ON UPDATE CASCADE,

FOREIGN KEY (changed\_by\_user\_id) REFERENCES Users(user\_id) ON DELETE SET NULL ON UPDATE CASCADE

);

/\*

Columns for PolicyHistory Table:

history\_id: Unique identifier for the history record

policy\_id: Foreign key linking to the Policies table

change\_date: Date and time when the change occurred

description\_of\_change: Detailed description of the change made to the policy

changed\_by\_user\_id: Foreign key linking to Users, indicating which user made the change (optional, can be system change)

\*/

-- 15. ClaimHistory Table

CREATE TABLE IF NOT EXISTS ClaimHistory (

history\_id INT PRIMARY KEY AUTO\_INCREMENT,

claim\_id INT NOT NULL,

change\_date TIMESTAMP DEFAULT CURRENT\_TIMESTAMP,

description\_of\_change TEXT NOT NULL,

changed\_by\_user\_id INT NULL,

old\_status\_id INT NULL,

new\_status\_id INT NOT NULL,

FOREIGN KEY (claim\_id) REFERENCES Claims(claim\_id) ON DELETE CASCADE ON UPDATE CASCADE,

FOREIGN KEY (changed\_by\_user\_id) REFERENCES Users(user\_id) ON DELETE SET NULL ON UPDATE CASCADE,

FOREIGN KEY (old\_status\_id) REFERENCES ClaimStatuses(status\_id) ON DELETE SET NULL ON UPDATE CASCADE,

FOREIGN KEY (new\_status\_id) REFERENCES ClaimStatuses(status\_id) ON DELETE CASCADE ON UPDATE CASCADE

);

/\*

Columns for ClaimHistory Table:

history\_id: Unique identifier for the claim history record

claim\_id: Foreign key linking to the Claims table

change\_date: Date and time when the claim status/details changed

description\_of\_change: Description of the change made to the claim

changed\_by\_user\_id: Foreign key linking to Users, indicating which user updated the claim

old\_status\_id: Foreign key linking to ClaimStatuses, indicating the status before the change

new\_status\_id: Foreign key linking to ClaimStatuses, indicating the status after the change

\*/

-- Enable foreign key checks after table creation

SET FOREIGN\_KEY\_CHECKS = 1;

show tables;

select \* from password\_reset\_tokens;

select \* from users;

delete from password\_reset\_tokens where user\_id=4;