Automobile Insurance System-KEERTHIKA.R

CREATING DATABASE:

CREATE DATABASE automobile_insurance_system;

USE automobile_insurance_system;

1.CREATING TABLE users:

```
CREATE TABLE users (

    user_id INT AUTO_INCREMENT PRIMARY KEY,

    name VARCHAR(100),

    dob DATE,

    age INT ,

    address TEXT,

    aadhaar_number VARCHAR(12) UNIQUE,

    pan_number VARCHAR(10) UNIQUE,

    email VARCHAR(100) UNIQUE,

    password_hash VARCHAR(255),

    role ENUM('customer', 'officer') DEFAULT 'customer',

    created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP

);
```

INSERTING VALUES:

INSERT INTO users (name, dob, age, address, aadhaar_number, pan_number, email, password_hash, role)

VALUES

('Keerthika', '2003-12-09',21 , 'Chennai', '123456789012', 'ABCDE1234F', 'arun@gmail.com', 'hashed_pw_1', 'customer'),

('Monisha', '1999-07-12',26 , 'Bangalore', '123456789013', 'ABCDE1235G', 'meena@gmail.com', 'hashed_pw_2', 'customer'),

('Prasanna ', '1985-01-01', 40, 'Mumbai', '123456789014', 'ABCDE1236H', 'vikram@gmail.com', 'hashed_pw_3', 'customer'),

('Sefika', '2000-10-10',25 , 'Delhi', '123456789015', 'ABCDE1237I', 'ravi@hexaware.com', 'hashed_pw_4', 'officer'),

('Nikil', '1992-04-25', 33, 'Kolkata', '123456789016', 'ABCDE1238J', 'sneha@hexaware.com', 'hashed_pw_5', 'officer');

user_id	name	dob	age	address	aadhaar_number	pan_number	email	password_hash	role	created_at
1	Keerthika	2003-12-09	21	Chennai	123456789012	ABCDE1234F	arun@gmail.com	hashed_pw_1	customer	2025-06-02 21:43:23
2	Monisha	1999-07-12	26	Bangalore	123456789013	ABCDE1235G	meena@gmail.com	hashed_pw_2	customer	2025-06-02 21:43:23
3	Prasanna	1985-01-01	40	Mumbai	123456789014	ABCDE1236H	vikram@gmail.com	hashed_pw_3	customer	2025-06-02 21:43:23
4	Sefika	2000-10-10	25	Delhi	123456789015	ABCDE1237I	ravi@hexaware.com	hashed_pw_4	officer	2025-06-02 21:43:23
5	Nikil	1992-04-25	33	Kolkata	123456789016	ABCDE1238J	sneha@hexaware.com	hashed_pw_5	officer	2025-06-02 21:43:23
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

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2.CREATING TABLE policies:

```
CREATE TABLE policies (
    policy_id INT AUTO_INCREMENT PRIMARY KEY,
    name VARCHAR(100),
    vehicle_type ENUM('car', 'bike', 'truck', 'camper van'),
    base_premium DECIMAL(10,2),
    description TEXT,
    created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP
);
```

INSERTING VALUES:

INSERT INTO policies (name, vehicle_type, base_premium, description)

VALUES

('Standard Car Insurance', 'car', 5000.00, 'Basic car insurance policy with third-party coverage.'),

('Comprehensive Bike Plan', 'bike', 2000.00, 'Full coverage for bikes including theft and accident.'),

('Truck Fleet Policy', 'truck', 15000.00, 'Covers fleet of commercial trucks.'),

('Camper Van Protection', 'camper van', 8000.00, 'Covers damage, theft, and accidents for camper vans.'),

('Premium Car Coverage', 'car', 10000.00, 'Enhanced coverage with add-ons for cars.');

policy_id	name	vehicle_type	base_premium	description	created_at
1	Standard Car Insurance	car	5000.00	Basic car insurance policy with third-party cover...	2025-06-02 21:43:32
2	Comprehensive Bike Plan	bike	2000.00	Full coverage for bikes including theft and accid...	2025-06-02 21:43:32
3	Truck Fleet Policy	truck	15000.00	Covers fleet of commercial trucks.	2025-06-02 21:43:32
4	Camper Van Protection	camper van	8000.00	Covers damage, theft, and accidents for campe...	2025-06-02 21:43:32
5	Premium Car Coverage	car	10000.00	Enhanced coverage with add-ons for cars.	2025-06-02 21:43:32
NULL	NULL	NULL	NULL	NULL	NULL

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3.CREATING TABLE policy_proposals:

CREATE TABLE policy_proposals (

    proposal_id INT AUTO_INCREMENT PRIMARY KEY,

    user_id INT,

    policy_id INT,

    vehicle_details TEXT,

    quote_amount DECIMAL(10,2),

    status ENUM('proposal_submitted', 'quote_generated', 'active', 'expired', 'rejected') DEFAULT 'proposal_submitted',

    submitted_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
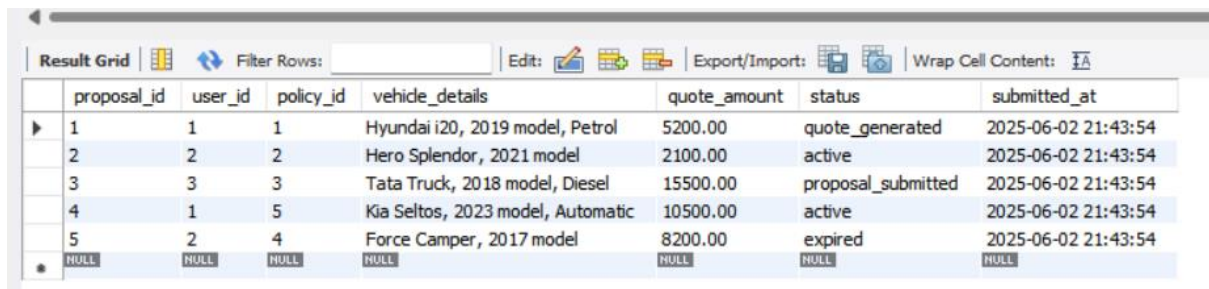
    FOREIGN KEY (user_id) REFERENCES users(user_id),

    FOREIGN KEY (policy_id) REFERENCES policies(policy_id));

INSERTING VALUES:

INSERT INTO policy_proposals (user_id, policy_id, vehicle_details, quote_amount, status)

VALUES

(1, 1, 'Hyundai i20, 2019 model, Petrol', 5200.00, 'quote_generated'),

(2, 2, 'Hero Splendor, 2021 model', 2100.00, 'active'),

(3, 3, 'Tata Truck, 2018 model, Diesel', 15500.00, 'proposal_submitted'),

(1, 5, 'Kia Seltos, 2023 model, Automatic', 10500.00, 'active'),

(2, 4, 'Force Camper, 2017 model', 8200.00, 'expired');

proposal_id	user_id	policy_id	vehicle_details	quote_amount	status	submitted_at
1	1	1	Hyundai i20, 2019 model, Petrol	5200.00	quote_generated	2025-06-02 21:43:54
2	2	2	Hero Splendor, 2021 model	2100.00	active	2025-06-02 21:43:54
3	3	3	Tata Truck, 2018 model, Diesel	15500.00	proposal_submitted	2025-06-02 21:43:54
4	1	5	Kia Seltos, 2023 model, Automatic	10500.00	active	2025-06-02 21:43:54
5	2	4	Force Camper, 2017 model	8200.00	expired	2025-06-02 21:43:54
NULL	NULL	NULL	NULL	NULL	NULL	NULL

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4.CREATING TABLE documents:

CREATE TABLE documents (

   document_id INT AUTO_INCREMENT PRIMARY KEY,

   proposal_id INT,

   doc_type VARCHAR(100),

   file_path VARCHAR(255),

   uploaded_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP,

   FOREIGN KEY (proposal_id) REFERENCES policy_proposals(proposal_id)

);

INSERTING VALUES:

INSERT INTO documents (proposal_id, doc_type, file_path)

VALUES

(1, 'RC Book', '/uploads/rc_1.pdf'),

(2, 'License', '/uploads/license_2.pdf'),

(3, 'Emission Certificate', '/uploads/emission_3.pdf'),

(4, 'RC Book', '/uploads/rc_4.pdf'),

(5, 'Vehicle Insurance History', '/uploads/prev_policy_5.pdf');

document_id	proposal_id	doc_type	file_path	uploaded_at
1	1	RC Book	/uploads/rc_1.pdf	2025-06-02 21:44:11
2	2	License	/uploads/license_2.pdf	2025-06-02 21:44:11
3	3	Emission Certificate	/uploads/emission_3.pdf	2025-06-02 21:44:11
4	4	RC Book	/uploads/rc_4.pdf	2025-06-02 21:44:11
5	5	Vehicle Insurance History	/uploads/prev_policy_5.pdf	2025-06-02 21:44:11
NULL	NULL	NULL	NULL	NULL

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5.CREATING TABLE payments:

CREATE TABLE payments (

    payment_id INT AUTO_INCREMENT PRIMARY KEY,

    proposal_id INT,

    amount_paid DECIMAL(10,2),

    payment_date TIMESTAMP DEFAULT CURRENT_TIMESTAMP,

    status ENUM('paid', 'pending') DEFAULT 'pending',

    FOREIGN KEY (proposal_id) REFERENCES policy_proposals(proposal_id)

);

INSERTING VALUES:

INSERT INTO payments (proposal_id, amount_paid, status)

VALUES

(1, 5200.00, 'paid'),

(2, 2100.00, 'paid'),

(3, 15500.00, 'pending'),

(4, 10500.00, 'paid'),

(5, 8200.00, 'paid');

6.CREATING TABLE notifications:

CREATE TABLE notifications (

    notification_id INT AUTO_INCREMENT PRIMARY KEY,

    user_id INT,

    message TEXT,

    sent_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP,

    type ENUM('reminder', 'quote', 'policy_document'),

    FOREIGN KEY (user_id) REFERENCES users(user_id)

);

INSERTING VALUES:

INSERT INTO notifications (user_id, message, type)

VALUES

(1, 'Your policy quote has been generated. Please review.', 'quote'),

(2, 'Your policy will expire in 7 days.', 'reminder'),

(3, 'Proposal submitted successfully.', 'quote'),

(1, 'Your policy document is ready for download.', 'policy_document'),

(2, 'Thank you for your premium payment.', 'policy_document');

	notification_id	user_id	message	sent_at	type
▶	1	1	Your policy quote has been generated. Please r...	2025-06-02 21:44:40	quote
	2	2	Your policy will expire in 7 days.	2025-06-02 21:44:40	reminder
	3	3	Proposal submitted successfully.	2025-06-02 21:44:40	quote
	4	1	Your policy document is ready for download.	2025-06-02 21:44:40	policy_document
	5	2	Thank you for your premium payment.	2025-06-02 21:44:40	policy_document
*	NULL	NULL	NULL	NULL	NULL

7.CREATING TABLE claims:

CREATE TABLE claims (

    claim_id INT AUTO_INCREMENT PRIMARY KEY,

    proposal_id INT,

    user_id INT,

    claim_reason TEXT,

    status ENUM('initiated', 'under_review', 'approved', 'rejected') DEFAULT 'initiated',

    created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP,

    FOREIGN KEY (proposal_id) REFERENCES policy_proposals(proposal_id),

    FOREIGN KEY (user_id) REFERENCES users(user_id)

);

INSERTING VALUES:

INSERT INTO claims (proposal_id, user_id, claim_reason, status)

VALUES

(2, 2, 'Bike skidded in rain, need repairs.', 'under_review'),

(1, 1, 'Minor collision damage in parking.', 'initiated'),

(4, 1, 'Theft reported for Kia Seltos.', 'approved'),

(5, 2, 'Storm damage to camper van.', 'rejected'),

(3, 3, 'Truck engine fire accident.', 'under_review');

claim_id	proposal_id	user_id	claim_reason	status	created_at
1	2	2	Bike skidded in rain, need repairs.	under_review	2025-06-02 21:44:54
2	1	1	Minor collision damage in parking.	initiated	2025-06-02 21:44:54
3	4	1	Theft reported for Kia Seltos.	approved	2025-06-02 21:44:54
4	5	2	Storm damage to camper van.	rejected	2025-06-02 21:44:54
5	3	3	Truck engine fire accident.	under_review	2025-06-02 21:44:54
NULL	NULL	NULL	NULL	NULL	NULL

EER Diagram

payments
- 🔑 payment_id INT
- ◇ proposal_id INT
- ◇ amount_paid DECIMAL(10,...
- ◇ payment_date TIMESTAMP
- ◇ status ENUM(...)
- **Indexes** ▶

claims
- 🔑 claim_id INT
- ◇ proposal_id INT
- ◇ user_id INT
- ◇ claim_reason TEXT
- ◇ status ENUM(...)
- ◇ created_at TIMESTA...
- **Indexes** ▶

users
- 🔑 user_id INT
- ◇ name VARCHAR(100)
- ◇ dob DATE
- ◇ age INT
- ◇ address TEXT
- ◇ aadhaar_number VARCHAR(1...
- ◇ pan_number VARCHAR(10)
- ◇ email VARCHAR(100)
- ◇ password_hash VARCHAR(255)
- ◇ role ENUM(...)
- ◇ created_at TIMESTAMP
- **Indexes** ▶

policies
- 🔑 policy_id INT
- ◇ name VARCHAR(100)
- ◇ vehicle_type ENUM(...)
- ◇ base_premium DECIMAL(10,...
- ◇ description TEXT
- ◇ created_at TIMESTAMP
- **Indexes** ▶

documents
- 🔑 document_id INT
- ◇ proposal_id INT
- ◇ doc_type VARCHAR(100)
- ◇ file_path VARCHAR(255)
- ◇ uploaded_at TIMESTA...
- **Indexes** ▶

policy_proposals
- 🔑 proposal_id INT
- ◇ user_id INT
- ◇ policy_id INT
- ◇ vehicle_details TEXT
- ◇ quote_amount DECIMAL(10,...
- ◇ status ENUM(...)
- ◇ submitted_at TIMESTAMP
- **Indexes** ▶

notificatio...
- 🔑 notification_id INT
- ◇ user_id INT
- ◇ message TEXT
- ◇ sent_at TIMESTAMP
- ◇ type ENUM(...)
- **Indexes** ▶