Problem Statement : Mechanics often face challenges in efficiently managing repair services, customer interactions, and payment processing in their automotive repair shops. To streamline these operations, there is a need for a comprehensive Automotive Repair Management System that facilitates seamless communication between mechanics and customers while effectively tracking repair details and payments.

Title: Automotive Repair Management System

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-- Create Customer table
CREATE TABLE customer (
customer_id INT PRIMARY KEY,
name VARCHAR(50),
address VARCHAR(100),
phone_no VARCHAR(20)
);


-- Create Vehicle table
CREATE TABLE vehicle (
plate_no VARCHAR(10) PRIMARY KEY,
model VARCHAR(50),
customer_id INT,
FOREIGN KEY (customer_id) REFERENCES customer(customer_id)
);


-- Create Problems table
CREATE TABLE problems (
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problem_no INT PRIMARY KEY,
problem_status VARCHAR(20),
price DECIMAL(10,2),
time VARCHAR(10),
job_id INT,
FOREIGN KEY (job_id) REFERENCES job_card(job_id)
);

-- Create Payment table
CREATE TABLE payment (
payment_id VARCHAR(10) PRIMARY KEY,
status VARCHAR(20),
mode VARCHAR(20),
job_id INT,
FOREIGN KEY (job_id) REFERENCES job_card(job_id)
);

-- Create Job Card table
CREATE TABLE job_card (
job_id INT PRIMARY KEY,
price DECIMAL(10,2),
delivery_time VARCHAR(20),
plate_no VARCHAR(10),
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mechanic_id VARCHAR(10),
customer_id INT,
FOREIGN KEY (plate_no) REFERENCES vehicle(plate_no),
FOREIGN KEY (mechanic_id) REFERENCES mechanic(mechanic_id),
FOREIGN KEY (customer_id) REFERENCES customer(customer_id)
);


-- Create Mechanic table
CREATE TABLE mechanic (
mechanic_id VARCHAR(10) PRIMARY KEY,
name VARCHAR(50)
);


-- Insert sample data into Customer table
INSERT INTO customer (customer_id, name, address, phone_no)
VALUES
(1, 'Ayush', 'punes1', '123456789'),
(2, 'Vedant', 'punes2', '9876543210'),
(3, 'Sher', 'punes3', '5551234567');


-- Insert sample data into Vehicle table
INSERT INTO vehicle (plate_no, model, customer_id)
VALUES
('AfC257', 'Toyota', 1),
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('XYZ456', 'Honda', 2),

('DEF789', 'Ford', 3);

-- Insert sample data into Mechanic table

INSERT INTO mechanic (mechanic_id, name)

VALUES

('M001', 'AARYAN'),

('M002', 'CHINMAY'),

('M003', 'AARYA');

-- Insert sample data into Job Card table

INSERT INTO job_card (job_id, price, delivery_time, plate_no, mechanic_id, customer_id)

VALUES

(1, 200.00, '3 days', 'AfC2573', 'M001', 1),

(2, 300.00, '2 days', 'XYZ456', 'M002', 2),

(3, 250.00, '4 days', 'DEF789', 'M003', 3);

-- Insert sample data into Problems table

INSERT INTO problems (problem_no, problem_status, price, time, job_id)

VALUES

(1, 'Pending', 100.00, '2 hours', 1),

(2, 'Completed', 200.00, '3 hours', 2),

(3, 'In Progress', 150.00, '4 hours', 3);

```
-- Insert sample data into Payment table
INSERT INTO payment (payment_id, status, mode, job_id)
VALUES
('PAY001', 'Paid', 'Cash', 1),
('PAY002', 'Unpaid', 'Credit', 2),
('PAY003', 'Paid', 'Debit', 3);
```