Lab Experiment – 2

**Aim:** Create a Relational database schema for a car insurance company and insert 10 entries in the database.

**MySQL Program:**

create database car\_insurance;

use car\_insurance;

create table customer (

customer\_id int primary key,

firstname varchar(20),

lastname varchar(20),

dateofbirth varchar(20),

email varchar(50),

phone varchar(20)

);

create table policies (

policy\_id int primary key,

policy\_num varchar(30) unique,

coveragetype varchar(30),

startdate date,

enddate date,

customer\_id int,

foreign key (customer\_id) references customer (customer\_id)

);

create table vehicles (

vehicle\_id int primary key,

registration varchar(50) unique,

make varchar(50),

model varchar(50),

year year,

customer\_id int,

foreign key (customer\_id) references customer (customer\_id)

);

create table claims (

claim\_id int primary key,

policy\_id int,

foreign key (policy\_id) references policies (policy\_id),

vehicle\_id int,

foreign key (vehicle\_id) references vehicles (vehicle\_id),

dateofincident date,

descrip text(300),

amount decimal(10, 2),

status varchar(50)

);

create table payments (

payment\_id int primary key,

policy\_id int,

foreign key (policy\_id) references policies (policy\_id),

vehicle\_id int,

foreign key (vehicle\_id) references vehicles (vehicle\_id),

datepaid date,

amount decimal(10, 5)

);

Insert into Customer values

(1, 'John', 'Doe', '1990-01-01', 'john.doe@email.com', '123-456-7890'),

(2, 'Jane', 'Smith', '1985-05-15', 'jane.smith@email.com', '987-654-3210'),

(3, 'Bob', 'Johnson', '1978-08-20', 'bob.johnson@email.com', '555-123-4567'),

(4, 'Alice', 'Williams', '1995-03-10', 'alice@email.com', '111-222-3333'),

(5, 'Charlie', 'Brown', '1980-12-05', 'charlie.brown@email.com', '999-888-7777'),

(6, 'Eva', 'Davis', '1992-06-25', 'eva.davis@email.com', '444-555-6666'),

(7, 'Frank', 'Miller', '1970-09-15', 'frank.miller@email.com', '777-666-5555'),

(8, 'Grace', 'Moore', '1987-04-30', 'grace.moore@email.com', '222-333-4444'),

(9, 'Henry', 'Garcia', '1998-11-12', 'henry.garcia@email.com', '666-777-8888'),

(10, 'Ivy', 'Clark', '1983-07-08', 'ivy.clark@email.com', '888-999-0000');

-- Policies

(101, 'POL123', 'Full Coverage', '2024-01-01', '2025-01-01', 1),

(102, 'POL456', 'Liability', '2024-02-01', '2024-12-31', 2),

(103, 'POL789', 'Collision', '2024-03-01', '2024-11-30', 3),

(104, 'POLABC', 'Comprehensive', '2024-04-01', '2024-10-31', 4),

(105, 'POLXYZ', 'Liability', '2024-05-01', '2024-09-30', 5),

(106, 'POLDEF', 'Full Coverage', '2024-06-01', '2024-08-31', 6),

(107, 'POLGHI', 'Liability', '2024-07-01', '2024-07-31', 7),

(108, 'POLJKL', 'Collision', '2024-08-01', '2024-06-30', 8),

(109, 'POLMNO', 'Comprehensive', '2024-09-01', '2024-05-31', 9),

(110, 'POLPQR', 'Full Coverage', '2024-10-01', '2024-04-30', 10);

Insert into Vehicles values

(201, 'ABC123', 'Toyota', 'Camry', 2019, 1),

(202, 'XYZ789', 'Honda', 'Civic', 2020, 2),

(203, 'JKL456', 'Ford', 'Fusion', 2018, 3),

(204, 'MNO789', 'Chevrolet', 'Malibu', 2021, 4),

(205, 'PQR123', 'Nissan', 'Altima', 2017, 5),

(206, 'STU789', 'Hyundai', 'Sonata', 2022, 6),

(207, 'VWX123', 'Kia', 'Optima', 2016, 7),

(208, 'YZA789', 'Mazda', 'Mazda6', 2023, 8),

(209, 'BCD123', 'Subaru', 'Legacy', 2015, 9),

(210, 'EFG789', 'Volkswagen', 'Passat', 2024, 10);

Insert into Claims values

(301, 101, 201, '2024-03-15', 'Accident on highway', 5000.00, 'Pending'),

(302, 102, 202, '2024-04-20', 'Vandalism in parking lot', 1000.00, 'Approved'),

(303, 103, 203, '2024-05-10', 'Collision at intersection', 2500.00, 'In Progress'),

(304, 104, 204, '2024-06-25', 'Comprehensive claim', 3000.00, 'Pending'),

(305, 105, 205, '2024-07-30', 'Liability claim', 1500.00, 'Approved'),

(306, 106, 206, '2024-08-05', 'Full coverage accident', 4000.00, 'In Progress'),

(307, 107, 207, '2024-09-15', 'Liability incident', 2000.00, 'Approved'),

(308, 108, 208, '2024-10-20', 'Collision with deer', 1800.00, 'Pending'),

(309, 109, 209, '2024-11-01', 'Comprehensive claim', 3500.00, 'In Progress'),

(310, 110, 210, '2024-12-10', 'Full coverage incident', 4200.00, 'Pending');

Insert into Payments values

(401, 101, 201, '2024-03-20', 1500.50),

(402, 102, 202, '2024-05-01', 800.25),

(403, 103, 203, '2024-06-15', 1200.75),

(404, 104, 204, '2024-08-01', 1000.00),

(405, 105, 205, '2024-09-10', 600.50),

(406, 106, 206, '2024-10-15', 2000.25),

(407, 107, 207, '2024-11-20', 900.75),

(408, 108, 208, '2024-12-25', 750.00),

(409, 109, 209, '2025-01-05', 1100.50),

(410, 110, 210, '2025-02-10', 1300.25);

select \* from Claims;

select \* from Customer;

select \* from Payments;

select \* from Policies;

select \* from Vehicles;

|  |  |  |
| --- | --- | --- |
|  |  |  |
| Claims Table | Customer Table | Payment Table |
|  |  |  |
| Policy Table | Vehicle Tables |  |