

Mapping Conceptual Model to Relational Model

1. Customer: Provides details of customers availing insurance services

- (Customer_ID, First_Name, Last_Name, Date_of_Birth)
- Customer_ID: Primary key

2. Customer_Phone: Stores multiple phone numbers associated with each customer

- (Customer_ID, Customer_Phone_No)
- Composite Primary key: (Customer_ID, Customer_Phone_No)
- Customer_ID: Foreign key references Customer(Customer_ID)

3. Car: Contains information about cars insured under policies

- (VIN, Model, Year_of_Manufacturing)
- VIN: Primary key

4. Bike: Stores details of bikes insured under policies

- (VIN, Model, Year_of_Manufacturing, Type_of_Bike)
- VIN: Primary key

5. Accident: Records accidents involving customers' vehicles

- (Date_of_Accident, Customer_ID, VIN, Description, Location)
- Composite Primary key: (Date_of_Accident, Customer_ID)
- Customer_ID: Foreign key references Customer(Customer_ID)
- VIN: Foreign key references Car(VIN)

6. Policy: Holds information about insurance policies

- (Policy_No, Sum_Insured, Start_Date, End_Date, Policy_Type)
- Policy_No: Primary key

7. PolicyTransactions: Tracks transactions related to policy purchases

- (Customer_ID, Policy_No, Purchase_Date)
- Composite Primary key: (Customer_ID, Policy_No)
- Customer_ID: Foreign key references Customer(Customer_ID)
- Policy_No: Foreign key references Policy(Policy_No)

8. Finance_Dept: Manages financial transactions related to insurance claims

- (Transaction_ID, Disbursed_Amount, Disbursement_Status)
- Transaction_ID: Primary key

9. Claim: Stores details of insurance claims filed by customers

- (Claim_No, Transaction_ID, Issued_Amount, Issued_Date, Claim_Status)
- Claim_No: Primary key
- Transaction_ID: Foreign key references Finance_Dept(Transaction_ID)

10. PolicyClaims: Maps policies to associated claims

- (Policy_No, Claim_No)
- Composite Primary key: (Policy_No, Claim_No)
- Policy_No: Foreign key references Policy(Policy_No)
- Claim_No: Foreign key references Claim(Claim_No)

11. Report: Contains reports generated regarding insurance claims

- (Report_ID, ReportDate, Fraud_Detected, Report_Details)
- Report_ID: Primary key

12. Garage_Partner: Maintains information about garages associated with insurance agency

- (Garage_Name, Contact_Info)
- Garage_Name: Primary key

13. Claim_Inspector: Records details of claim inspectors assigned to investigate claims

- (Inspector_ID, Claim_No, Report_ID, Garage_Name, Inspector_Name, Inspector_Contact_Info)
- Composite Primary key: (Inspector_ID, Claim_No, Report_ID, Garage_Name)
- Inspector_ID: Primary key
- Claim_No: Foreign key references Claim(Claim_No)
- Report_ID: Foreign key references Report(Report_ID)
- Garage_Name: Foreign key references Garage_Partner(Garage_Name)