DBMS Design Assignment

- Abraham Jacob Kurialanickal

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VEHICLE SALES MANAGEMENT

The database is designed to manage and track information related to vehicle sales, customers, insurance, payments, and associated entities. The schema is organized to ensure data integrity and provide a structured framework for storing and retrieving information in a coherent manner.

Tables:

- **Vehicle**: Stores information about vehicles, including Vehicle Identification Number (VIN), make, model year, and color.
- **Vehicle_Type**: Defines different types or categories of vehicles and assigns a unique TypeID to each category.
- **Vehicle_Model**: Contains details about vehicle models, including a unique ModelID, model name, and base price.
- **Vehicle_Type_mapping**: Establishes a relationship between vehicles and their corresponding types.
- **Vehicle_Model_mapping**: Associates vehicles with their respective models.
- **Customer**: Holds information about customers, including CustomerID, name, address, gender, email, and phone number.
- **Sale**: Records details of vehicle sales, including SaleID, VIN, and sale price.
- **Sale_Customer_mapping**: Links sales with the respective customers involved.
- **Vehicle_Customer_mapping**: Connects vehicles with their associated customers.
- **Payment**: Manages information about payments, including PaymentID, amount, description, and payment method.
- **Payment_Sale_mapping**: Links payments with the corresponding sales.
- **Insurance**: Stores details about vehicle insurance policies, including PolicyNumber, VIN, amount, start date, and end date.

- **InsuranceProvider**: Contains information about insurance providers, with a unique ProviderID and company name.
- **Coverage**: Defines different types of insurance coverage and assigns a unique CoverageID to each type.
- **Insurance_Provider_mapping**: Links insurance policies with their respective providers.
- **Insurance_Coverage_mapping**: Associates insurance policies with the specific coverage types they include.
- **Insurance_Customer_mapping**: Connects insurance policies with the associated customers.

ER Diagram