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Car Dealership Management Database

Entities:

1. Vehicle
2. Manager
3. Sales Agent
4. Customer
5. Deal
6. Distributor
7. Dealership
8. Region
9. Insurance

Relationships:

1. Vehicle – VehicleID, Make, Model, Year, Price
   1. Vehicle comes from one Distributor
   2. Vehicle belongs to one Dealership
   3. Vehicle can only be involved in one Deal, and may not be sold at all
2. Manager – ManagerID, MngrSalary, MngrFirstName, MngrLastName
   1. Manager is in contact with many Distributors
   2. Manager can supervise one to many Sales Agents
   3. Manager must manage one Dealership
3. Sales Agent – AgentID, AgentSalary, AgentFirstName, AgentLastName
   1. Sales Agent reports to one Manager
   2. Sales Agent can sell to many Customers
   3. Sales Agent can facilitate many Deals, or none
   4. Sales Agent works at one Dealership
4. Customer – CustomerID, CustFirstName, CustLastName, PhoneNumber, Email
   1. Customer can confer with many Sales Agents, and needs at least one
   2. Customer can conduct many Deals, or none
5. Deal – DealID, DealDate
   1. Deal only involves one Sales Agent, and must involve one
   2. Deal includes one customer, and must involve one
   3. Deal must include one vehicle each
6. Distributor – DistributorID, DistributorName
   1. Distributor can distribute many Vehicles
   2. Distributor is in contact with one Manager
   3. Distributor can distribute to many Dealerships
7. Dealership – DealershipID, DealershipName
   1. Dealership can have many Vehicles on the lot, & must have at least one
   2. Dealership has one Manager, and must have one
   3. Dealership has many Sales Agents
   4. Dealership can have multiple Distributors, & must have at least one
8. Region – RegionID, RegionZip, RegionName
   1. Region can have many Dealerships, & needs at least one
      1. This database would not track Regions that don’t have a Dealership
9. Insurance – InsuranceID, RenewalDate, PolicyType
   1. Insurance can be included in a Deal, but is optional
   2. Only one Insurance policy is allowed per deal, if at all