



Relational Schema:

Customer(CustomerID, Name, Address)
 Dealer(DealerID, Name, Address)
 Brand(BrandID, Name)
 Model(ModelID, Name, BrandID)
 Option(OptionID, Name)
 Car(VIN, ModelID, DealerID, CustomerID, Options)
 CarOption(VIN, OptionID)

Constraints:

VIN is the primary key in the Car table.
 ModelID is the primary key in the Model table.
 CustomerID is the primary key in the Customer table.
 BrandID is the primary key in the Brand table.
 DealerID is the primary key in the Dealer table.
 OptionID is the primary key in the Option table.
 VIN and OptionID together form the primary key in the CarOption table.
 BrandID in the Model table is a foreign key referencing the Brand table.
 ModelID in the Car table is a foreign key referencing the Model table.
 DealerID in the Car table is a foreign key referencing the Dealer table.
 CustomerID in the Car table is a foreign key referencing the Customer table.
 OptionID in the CarOption table is a foreign key referencing the Option table.
 VIN in the CarOption table is a foreign key referencing the Car table.