**Week 5 - ERD Assignment**

**Part 1: USE ERD to Create SQL Database**

*Part 2: Create Database for Car Dealership using SQL*

*Car Dealership*

*Create an ERD for a car dealership. The dealership sells both new and used cars, and it operates a service facility. Base your design on the following business rules:*

*A salesperson may sell many cars, but each car is sold by only one salesperson.*

*A customer may buy many cars, but each car is bought by only one customer.*

*A salesperson writes a single invoice for each car he or she sells.*

*A customer gets an invoice for each car he or she buys.*

*A customer may come in just to have his or her car serviced; that is, a customer need not buy a car to be classified as a customer.*

*When a customer takes one or more cars in for repair or service, one service ticket is written for each car.*

*The car dealership maintains a service history for each of the cars serviced. The service records are referenced by the car’s serial number.*

*A car brought in for service can be worked on by many mechanics, and each mechanic may work on many cars.*

*A car that is serviced may or may not need parts (e.g., adjusting a carburetor or cleaning a fuel injector nozzle does not require providing new parts).*

*After the tables have been created, use SQL to add data to the database*

Each person will need to create their own ERD diagram using Lucidchart and create their own SQL database.