**ERD guidelines for car\_sales database**

**USE ERD to Create SQL Database**

*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:*

1. *A salesperson may sell many cars, but each car is sold by* ***only one*** *salesperson.*
2. *A customer may buy many cars, but each car is* ***purchased by only one customer****.*
3. *A salesperson writes a* ***single invoice*** *for each* car *he or she sells.*
4. *A customer gets* ***an*** *invoice for each car he or she buys.*
5. *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.***
6. *When a customer takes one or more cars in for repair or service,* ***one service ticket is written for each car****.*
7. *The car dealership maintains a service history for each of the cars serviced. The service records are referenced by the car’s serial number.*
8. *A car brought in for service can be worked on by many mechanics, and each mechanic may work on many cars.*
9. *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.