**Database Design Part 1**

*Description* In this lab you will design a database for a used car lot. You need to submit the design in two formats. First submit a E-R diagram. Second submit a BOB diagram.

*Car Inventory* The lot wishes to maintain an inventory of cars. They will need Make and Model information. They will also need the price that they paid for the car, the price that they wish for the car. They will need color, and body style information too. They will also need the status of the car and who bought the car.

*Customers* The lot wishes to track their customers, both prospective and current. Decide what information needs to be included. Repairs The lot also wishes to track the repairs, categories and costs of the repairs for each car after they bought the car. Car dealers normally recondition cars so they can get top dollar instead of bottom dollar.

*E-R diagrams* Wikipedia has a good description of ER diagrams: [http://en.wikipedia.org/wiki/Entity-relationship_model](http://en.wikipedia.org/wiki/Entity-relationship_model) You may use a tool to create the diagram or you may hand draw the diagram and then scan it in. Use the method that is best suited for the job. Using a sledge hammer to pound a nail makes little sense.

*BOB diagrams* This is a diagram format developed and used my me for several years. I have found this format to be helpful. Come to class to learn this format or talk with me. It is very similar to Access design format.

*Grading* This lab is worth 10 points. You will get five points for the design, three points for the ER diagram and two points for the BOB diagram.