

# Lab 1 - ERD

## Overview

Wally Los Gatos, owner of Wally's Wonderful World of Wheels, has hired you as a consultant to design a database management system for his chain of stores that sell used vehicles. Wally requires this system to track details about inventory, employees, sales and customers.

## Requirements

Based on the following information, draw an ER diagram. At this point we are not concerned with entity attributes. At this point we want to identify all entities, relationships, and cardinality constraints.

Please indicate any assumptions that you have made in your diagrams!

After an initial meeting with Wally, you have developed a list of business rules and specification to begin the design of an the ER Model.

- Customers place orders through a dealership. Wally has three dealership locations (Cambridge, Kitchener and London), and may add more in the future
- A customer may place many orders
- A customer does not always have to order through the same dealer all the time
- A dealership may have many customers
- Orders are composed of one or more vehicles from inventory
- Wally obtains vehicles from a range of suppliers, including auctions, bank foreclosures, other dealerships, and private sellers
- Wally employs fifty-six employees
- If the employee's role is that of a salesperson, we should track their commission and total Vehicles Sold
- If the employee's role is that of a manager, we should track which employees they manage
- Each employee works in one and only one dealership
- Each employee may have dependent(s).

We wish to record the name of the dependent as well as the age and relationship