Assignment 3: Ontologies / ER Diagram Design Exercise

Learning objectives

By completing this assignment, you will:

- Become familiar with ER diagrams and strategies for data integration.

- Gain experience analyzing the characteristics of data and integrating data sources.

Remember, this exercise is not about learning ER diagrams. This is an opportunity to reflect on the data modeling and integration and how it solves data management problems.

Scenario

You are back at the auto dealer from Assignment 1. They have merged with a dealer of pre-owned cars, and they need to integrate their data. See the attached document, which describes the database used by the pre-owned dealer.

You will be asked to create ER diagrams for this assignment. Your diagram should include entities, attributes, relationships, and and keys. Please label the primary and foreign keys, as this is not a standard convention for ER diagrams. If you are not using a common notation style (e.g., Chen, crow's feet), please include a legend to assist the instructors in grading. The slides in Week 5, Video 4 contain examples of ER diagrams that would work for this assignment.

Instructions

- Create an ER diagram for Pre-owned dealer database, as described in the attached file.

- Create a separate ER diagram that reflects the schema you designed for Assignment 1. You may update the schema based on feedback you received from instructors after submitting Assignment 1.