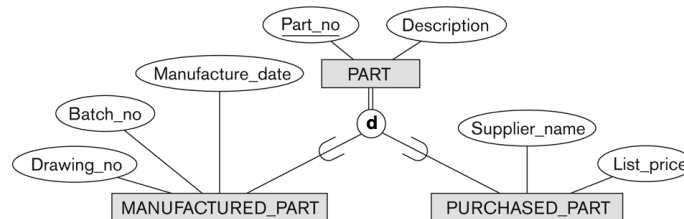


CS 5200: Module 3 HW: Mapping EER to Relational Schema Diagram

Name: _____ NUID: _____

(Q1) Mapping EER to Relational Schema Diagram

Consider the following EER diagram for a car dealer



Map the above EER schema into a set of relations. For the PART to MANUFACTURED_PART/PURCHASED_PART generalization, consider the four options presented in Step8 and show the relational schema design under each of those options.

Option A: Multiple relations – Superclass and subclasses

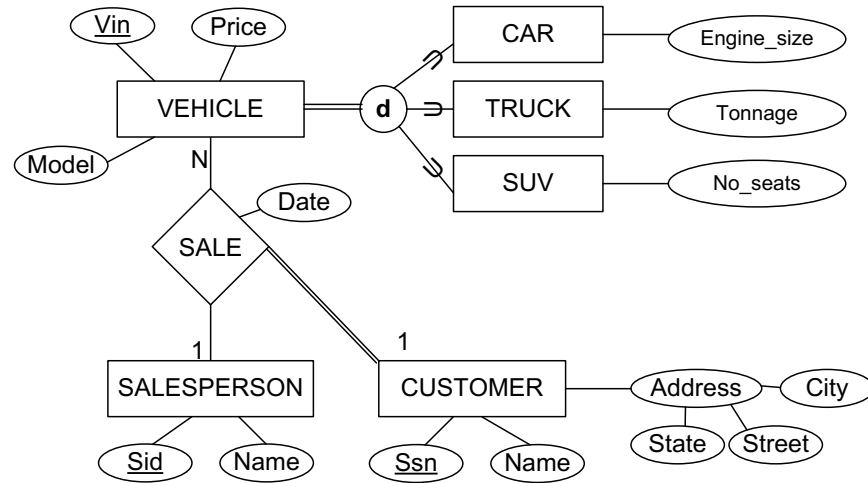
Option B: Multiple relations – Subclasses relations only

Option C: Single relation with one type attribute

Option D: Single relation with multiple type attribute

(Q2) Mapping EER to Relational Schema Diagram for Car Dealer database

Consider the EER diagram for a car dealer. Map the above EER schema into a set of relations. For the VEHICLE to CAR/TRUCK/SUV generalization, consider four options presented in Step8 (select only one option for each) and show the relational schema design under each of those options.



Option A: Multiple relations – Superclass and subclasses

Option B: Multiple relations – Subclasses relations only

Option C: Single relation with one type attribute

Option D: Single relation with multiple type attribute