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Professor Dong

CS 3700 - Final Project

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Final Project Report

**Section 1: ERD Chen’s Notation**

A picture containing text, whiteboard

Description automatically generated

Here is my ERD diagram explaining the relationship between customers, salespeople, and dealership. It also expresses the relationship between information and features that can be added to new and used cars.

**Section 2: ERD Barker’s Notation**

Diagram

Description automatically generated

Here is the transformed ERD Chen’s diagram to Barker’s notation. I used the SQL Modeler to make this diagram to show the lists for the tables to be made in the next section.

**Section 3:**

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Description automatically generated

Here is the mapped-out version of the ERD diagram showing the tables and how they will be written on SQL developer. Some sections may be added to the feature section so that the make, model, and color of each car wither used or new.

**Section 4:**

CREATE TABLE Newcars (

newCarID VARCHAR(5) PRIMARY KEY,

customerID VARCHAR(5) NOT NULL,

carDetails VARCHAR(5) FOREIGN KEY,

features VARCHAR(5) NOT NULL;

CREATE TABLE Usedcars (

usedCarID VARCHAR(5) PRIMARY KEY,

customerID VARCHAR(5) NOT NULL,

carDetails VARCHAR(5) FOREIGN KEY,

features VARCHAR(5) NOT NULL;

CREATE TABLE Dealership(

Dealership VARCHAR(5) PRIMARY KEY

newCarID VARCHAR(5) NOT NULL,

customerID VARCHAR(5) NOT NULL,

employeeID VARCHAR(5) FOREIGN KEY,

custom VARCHAR(5) NOT NULL;

manufacturer VARCHER(5) NOT NULL;

CREATE TABLE Features (

custom VARCHAR(5) PRIMARY KEY,

options VARCHAR(5) NOT NULL,

price VARCHAR(5) FOREIGN KEY,

CREATE TABLE Cardetails (

carDetails VARCHAR(5) FOREIGN KEY,

newCarID VARCHAR(5) PRIMARY KEY,

customerID VARCHAR(5) NOT NULL,

features VARCHAR(5) NOT NULL,

licensePlateN VARCHAR(5) NOT NULL,

milage VARCHAR(5) NOT NULL,

price VARCHAR(5) NOT NULL,

VIN VARCHAR(5) NOT NULL,

features VARCHAR(5) NOT NULL,

bookValue VARCHAR(5) NOT NULL,

make VARCHAR(5) NOT NULL,

model VARCHAR(5) NOT NULL,

color VARCHAR(5) NOT NULL,

registration VARCHAR(5) NOT NULL,

employeeID VARCHAR(5) NOT NULL;

CREATE TABLE Features (

custom VARCHAR(5) PRIMARY KEY,

options VARCHAR(5) NOT NULL,

price VARCHAR(5) FOREIGN KEY,

etc.