CSCI3030U Data Modeling Workshop

Announcements

Midterm on 18th (Data Modeling) and 20th of Oct (Applications).

BRING YOUR LAPTOP TO BOTH MIDTERMS

See control questions on the course Slack group.

Car Dealership

Create E/R diagram of the car dealership database with Toad Data Modeler

Car dealership database should contain following information:

- Manufacturer (short name e.g., BMW, official name e.g., Bayerische Motoren Werke AG, country, founded year, stock price, customer service phone numer
  - ✓ Provide information about CEO and year the CEO was choosen, note that CEO's change over years
  - ✓ Provide information about founders, note that can be multiple funders but there has to be at leas one
- Car model (model name e.g., G20, safety rating (Optional), fuel consumption, year it was introduced to the market, horse powers, country of assembly, designer)
- Vehicle category (category, e.g., SUV, description of the category)
- Customer who bought a car. Car is identified by VIN number. Customer is identified by SIN.
- Price for which vehicle was sold, and who was the seller.

Car Dealership

Also:

◦ Information about Customer: name, cell phone, email address, address, other customer details (e.g., yes/no flag: if they can be contacted by phone during work hours). Email address can be not given by the customer.

◦ Address should contain city, postal code, street, street number, apt number.

◦ Each customer in the system did not necessary buy a car (can be for instance only on mailing list.)

◦ Customer has to have an address and can live in multiple addresses.

◦ Try to keep the database schema simple (not too many tables) but correct!

More Practice

Design movie rental company, video games store and amazon database, as a preperation for design modeling part of the midterm.