Relational Database Development

152-156

# SQL - Table Build and Populate

40 points

Part 1 – 20 points

* Create an ERD for the database described below
* Create a Data Dictionary for the database described below
* **Extra Credit (2 points)**
  + Create sub-tables of Employees as appropriate (ERD Only)

Part 2 – 20 points

* After your design has been graded
* Provide (MS Word) the SQL to create tables
* Provide the SQL to add **at least** three sample records to each table.
  + Make the data as *real-world* as possible
  + Include some fields that are left empty (where appropriate)
  + Include more than three records if needed

**Car Rental Database Tables and Fields**

* Employees
  + Employee ID
  + Supervisor ID (link to another employee
  + First Name
  + Last Name
  + Office Phone Number
* Customers
  + Customer ID
  + First Name
  + Last Name
  + Cell Phone
  + Street Address 1
  + Street Address 2
  + City
  + State
  + Zip Code
* Rentals
  + Rental ID
  + Customer ID
  + Rented By (employee)
  + Location ID
  + Vehicle ID
  + Rental Date
  + Days Rented
* Vehicles
  + Vehicle ID
  + VIN (Vehicle Identification Number)
  + Make
  + Model
  + Year
  + Daily Rental Charge
* Locations
  + Location ID
  + Location Name
* Vehicle Maintenance
  + Work Order ID
  + Maintenance ID
  + Vehicle ID
  + Employee ID
  + Maintenance Date
  + Vehicle Mileage
* Maintenance Types
  + Maintenance ID
  + Maintenance Description