Take Home Assignment 01

Deadline: august 7, 2023

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| Student name | Student ID |
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**The purpose: (step 1):**

* Design a database to manage employee, driver, customer, and order data.
* Design the objects in the database so that the present inefficient system is replaced, and the new system is reliable upon implementation.
* Securing the database so that the company’s data is not accidentally or maliciously deleted.

**Entities (step 2):**

* Employee
* Driver
* Vehicle
* Warehouse
* Storage units
* Lease
* Job Order
* Job Detail
* Customer

**Attributes (step 3):**

* Employee (EmployeeID, LastName, MiddleName, FirstName, Address, City, State, Zip, Phone, CellPhone, SSN, DateOfBirth, HireDate, TerminationDate, JobID, AnnualSalary, HourlySalary, DateOfLastReview, WarehouseID, Note)
* EmployeeJob (EmployeeJobID, EmployeeJobCat, EmployeeJobDesc)
* Driver (DriverID, LastName, MiddleName, FirstName, Address, City, State, Zip, Phone, CellPhone, SSN, DateOfBirth, HireDate, TerminationDate, MileRate, DateLastReview , RatingLevel, Note)
* Rating (RatingLevel, SaftyRecord, On-timeRates)
* Vehicle (VehicleID, LicensePlateNumber, NumberOfAxles, Color)
* Warehouse (WarehouseID, Address, City, State, Zip, Phone, ClimateControlled, SecurityGate)
* StorageUnit (UnitID, WarehouseID, UnitSize, Rent)
* Lease (LeaseID, CustomerID, UnitID, StartDate, EndDate)
* JobOrder (OrderID, CustomerID, EmployeeID, ScheduleDate, MoveDate, OriginalLocation, DestinationLocation, EstimatedMileage, EstimatedWeight, Packing, HeavyItems, Storage)
* Customer (CustomerID, LastName, MiddleName, FirstName, Type, JobContactName, Address, City, State, Zip, PhoneNumber, Balance)
* JobDetail (OrderID, VehicleID, DriverID, ActualMileage, ActualWeight)

**Order ID and Lease ID are unique for each transaction.**