## Due Date (See MyCourses ASSIGMENTS) Assignment Box PE06

## Name: Please Type your name (Lastname, Firstname)\_\_\_\_\_\_\_\_\_Lynch, Connor\_\_\_\_\_\_\_\_\_\_\_\_\_\_

## Instructions:

## 1) Download this Word Document. Type your answers in this Word Document.

## 2) Convert this Word Document INTO PDF Document

## after you complete all your answers.

EXAMPLE - PO\_Detail Table below is not in 3NF

PO\_Detail(**PO#**, **CustID**, CustName, ContactName, OrderDate, BillToAddress, ShipToAddress, **ProdID,** ProdDescription, UnitPrice, Quantity,Date,Amount)

Functional dependencies:

PO# 🡺 OrderDate, BillToAddress, ShipToAddress

CustID 🡺 CustName, ContactName

ProdID 🡺 ProdDescription, UnitPrice

PO#, Date 🡺 Amount

Given a relational schema for PO Details and functional dependencies above, a “NORMALIZED” set of tables to hold the information would look like the following. Create a valid script for the 5 tables/entities including Primary key’s and foreign keys. You **MUST use constraint names** for foreign keys.

PO\_Detail(**PO,** *CustID*, *ProductID*, Quantity)  
 - - - - - - - - - - - -   
Customer(**CustID**, CustName, CustContact)

Product(**ProdID**, ProdDescription, UnitPrice)

PO (***PO****,* OrderDate, BillToAddress, ShipToAddress)   
 - - - -  
 (fk)  
  
Paid\_PO(***PO*, Date**, Amount)   
 - - -  
 (fk)

Two of the four **M**ust **E**xist **I**n statements (**M**.**E**.**I**) are below:

Paid\_PO(PO) M.E.I. PO\_Detail(PO)  
PO(PO) M.E.I. PO\_Detail(PO)

Create one long script file named YourLastname\_Week8.sql The script will create one database with 5 tables. Make sure your script creates the correct Primary keys and foreign keys (Must use constraint names).

After your errors are out of your script file, create a tee file yourLastnamePE06.txt Run your error free script file while your tee file is open. Close your tee file. Convert your TEE (.txt) file to a .pdf file. Upload .sql, .txt and .pdf files to the assignment box. (Same as every homework)

MAKE SURE YOUR – VERBOSE OPTION IS ON AND WORKING WHEN YOU RUN YOUR SCRIPT.

**For Page 2 Problem 1 and Problem 2, write the logical correct Functional Dependencies**

Page 2 - **PROBLEM 1 for page 2 Problem 1 and problem 2 type or write neatly your answers and submit this document in .pdf format to the Assignment box.**

Ship(BoatId, NbrOfPools, YearMade, Tonnage, CompanyId, CompanyName)  
Functional dependencies are?

BoatId 🡺 NbrOfPools, YearMade, Tonnage

CompanyId 🡺 CompanyName

Page 2 **- PROBLEM 2 QOH stands for Quantity On Hand**

Inventory(PartNbr, Warehouse, Location, QOH, Weight, PartColor)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **PartNbr** | **Warehouse** | **Location** | **QOH** | **Weight** | **PartColor** |
| 01 | 500 | NW | 135 | 11.75 | Blue |
| 01 | 600 | SW | 210 | 11.75 | Blue |
| 01 | 800 | East | 192 | 11.75 | Blue |
| 02 | 500 | NW | 75 | 2.50 | Red |
| 02 | 800 | East | 45 | 2.50 | Red |
| 03 | 500 | NW | 290 | 21.35 | Green |
| 03 | 600 | SW | 83 | 21.35 | Green |

Sample Data

Functional dependencies are?

PartNbr 🡺 Weight, PartColor

Warehouse 🡺 Location

PartNbr, Warehouse 🡺 QOH