COSC 3380

Name: Paola Garibay_____ Seat #_F1

Project 1: (100 points)

a.	50 points
b.	30 points
C.	10 points
d.	10 points

PLEASE ENTER YOUR GRADE IN THIS BOX & ALSO on the CHECK SHEET:

a. (50 points – separate document) Using the above **COSC3380** Data Requirements create the **ERD** Model (must fit on one page)

(Conceptual Model – WHAT - Analysis).

(You HAVE to use ER symbols from the textbook!)

(You must use Microsoft Word; no by hand deliverables will be accepted)

A systematic approach to do conceptual design of a database is given below:

Step 1. Identify Entity Sets

Step 2. Identify Attributes

Step 3. Identify Keys

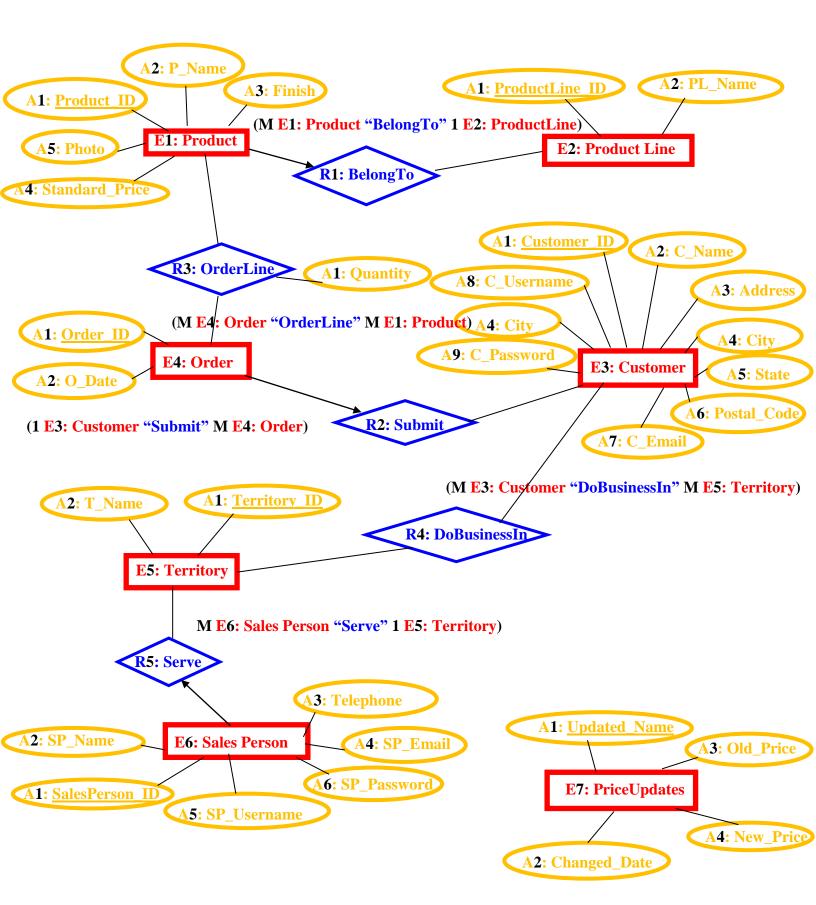
Step 4. Identify Relationship Sets

Step 5. Identify Cardinality

Data Analysis documents, Project 1 with Line Numbers for ERD Modeling.doc and Project 1 Data Requirements Specifications.doc need to be turned in.

Please remember the ERD Diagram does not have any OVALS on it.)

(Just place the ERD Diagram HERE)



b. (30 points) COSC3380 Relational Model (must fit on one page)

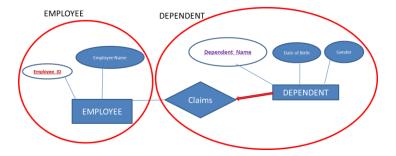
(Internal Model – **HOW** - Design).

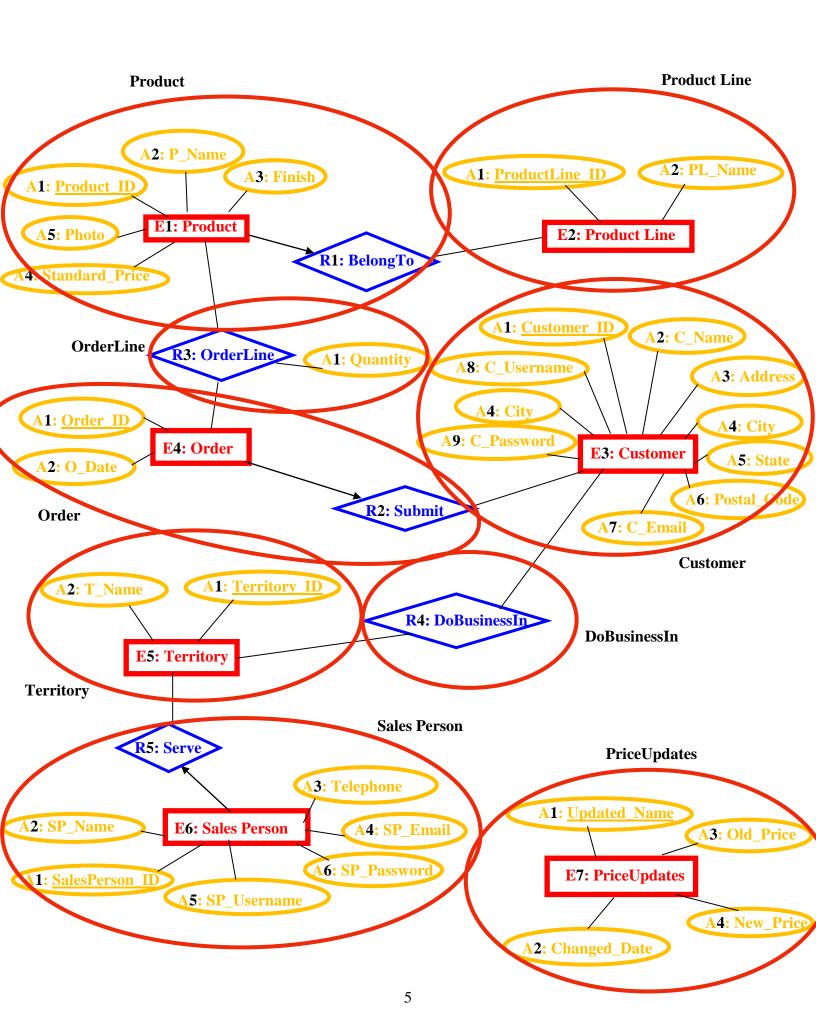
#Relations/Tables: __9_

Using the ERD Model created in a., create a list of each Relation (Table) by using the textbook notation of placing ovals (make sure you Label them – these will be your Relations names) on the ERD Model for each Relation. Use the pictorial format for the Relational Model presented in class (Please use the SAME names as in the Labels for your Relations. You need to turn in (You HAVE to use Relational symbols from the textbook!)

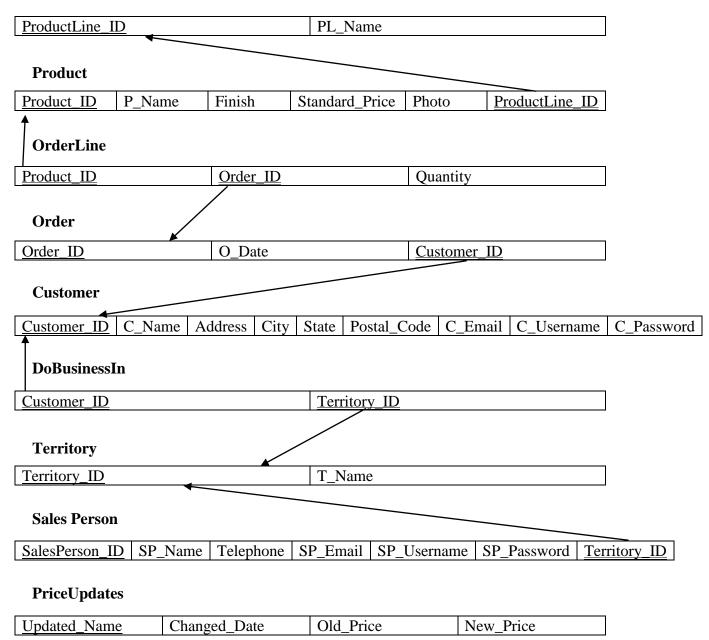
(You must use Microsoft Word, and your Word ERD Model marked up with ovals for the Relations; no deliverables by hand will be accepted)

This is just an example of ERD to Relational mapping:





Product Line





c. (1 nts) Given the unnormalized data in b. convert Relations to 1NF, 2NF, and 3NF. (If already in 3NF, just state so and do not copy the Relations from b.)

Already in 3NF

d. (10 points) Draw the revised ERD Model that corresponds to the 3NF Relations for c. (You HAVE to use ER symbols from the textbook!)
(If no change to the ERD, just state so and do not copy the ERD from a.)

No Change