Mba 615   **ASSIGNMENT #1**

Using the business case (last page), you need to complete the following requirements:

1. Using Visio or if unable to download it any other drawing software, draw the ERD (attributes, entities, , relationships and cardinalities (e.g. one-to-one, one-to-many) of the database used to support the operations of the business described in the case. The ERD should identify primary keys and foreign keys.

   If you use Visio (version 2010 the best, 2013), you can get it from the myConcordia portal by using the MSDNAA program. To install it with the license key given by MSDNAA or it will install on a trial basis for 30 days (Note: the file is compressed in zip format so you would need to decompress it before installation – use a free Unzip program "7Zip"). The link below shows a tutorial on how to download Visio and use it to complete the assignment (Note: Visio is also installed in the DSMIS Lab located in the MB 12-314, the video indicates that the user name and password for the DSMIS lab is DSMIS but this is not longer the case, please use your myconcordia user name and password to access the DSMIS lab):

   https://www.youtube.com/watch?v=giz0N1O1ma8

   Bear in mind that the downloaded file from the myConcordia portal will be in the ISO format (for Visio Installation), for you to install it; you will need to extract the ISO file by using Winrar or 7zip.

<u>You must hand in:</u>

- A word document with the ERD diagram embedded (e.g Visio Diagrams) submitted with the rest of requirements in class
  (Note: ERD diagrams in native formats (Visio file) will be posted in drop folder in first class).

Please note:

- Your electronic submission must <u>clearly identify</u> team members' name and student id.

- Handwritten assignments will <u>not</u> be accepted.

Your will be graded based on the rubrics below:

Grading Schema	Student Names	To be included in your word document submission				
		Exceptional Complete Clear Exceeds performance indicators	Excellent Complete Meets performance Indicators	Approaching performance indicator - missing some details	Developing competence vague, weak - needs more detail	Not Present
		4	3	2	1	0
Entities in ERD are appropiate and justified - masters, associatives						
the model identifies the relationships to proper entities and cardinalities - Normalized -- 1:1; 1;N; n:m						
Identifies attributes for each entity, PK, FK						
List fo the business rules						
Out of 16						

Business Case: Wallcoverings

Wally Los Gatos, owner of Wally's wonderful world of WallCoverings, has hired you as a consultant to design a database management system for his chain of three stores that sell wallpaper and accessories. He would like to track sales, customers, and employees. After an initial meeting with Wally, you have developed a list of business rules and specifications to begin the design of an ERD model:

- Customers place orders through a branch.
- Wally would like to track the following about customers: Name, Address, city, State, Zip Code, Telephone, Date of Birth and Primary Language.
- A customer may place many orders.
- A customer does not always have to order through the same branch all the time.
- Customers may have one or more accounts, although they may also have no accounts.
- The following information needs to be recorded about accounts: Balance, Last payment date, last payment amount and Type.
- A branch may have many customers.
- The following information about each branch needs to be recorded: Branch Number, Location (Address, City, Province, Postal Code), and Square Footage.
- A branch may sell all items or may only sell certain items.
- Orders are composed of one or more items.
- The following information about each order needs to be recorded: Order Date and Credit Authorization Status.
- Items may be sold by one or more branches.
- We wish to record the following about each item: Description, Color, Size, Pattern and Type.
- An item can be composed of multiple items: for example, a dining room wall covering set (item 20) may consist of wallpaper (item 22) and borders (item 23).
- Wally employs 56 employees.
- He would like to track the following information about employees: Names, Address (Street, City, Province, Postal Code), Telephone, Date of Hire, Title, Salary, skill and Age.
- Each employee works in one and only one branch.
- Each employee may have one or more dependents. We wish to record the name of the dependent as well as the age and relationship.
- Employees can have one or more skills.