Enterprise Computing I

Assignment #2: Database Design & SQL

Given: 20/10/2009   **Due: 27/10/2009**

Objective:
Students have to show practical database (relational) design using MS SQL-Server 2005, development of stored procedures and views.

Requirements:
A database, a stored procedures and views must be kept on the hard disk in student's private directory (or in your private computer**.** The name of the database must begin of Student's ID.

Process of development and marking schema:
1. Using MS SQL Server 2005 database: **(Weight: 40%)**
    *   Students are to be able to develop a database which consist at least 3 and not more then 5 tables with "one-to-many" (mandatory) and "one-to-one" (not mandatory) relationships.
    *   Tables and relationships have to be presented as a diagram.
    *   Each table has to have at least 10-15 rows with no empty information. Database ought to have at least 4 different types of data (for instance – "text", "number", "currency", and "date/time", etc.).
    *   Define primary and foreign keys.
    *   The database must be normalized (3rd Normal form). **If the database won't be in the 3rd Normal form it will entail 50% off of the weight of the database design part of that assignment.**

2. Develop a Stored Procedures, Views using a SQL-statements over the data of your database, which consists requirements below (SQL-statements, which are not included into stored procedures or views will not be considered and evaluated):

	Weight			Weight
Multiple conditions	5%		Deleting Individual Rows	5 %
Sorting on a generated column	5%		An input parameters (for stored procedures)	5%
INNER JOIN operations	5%		At least one output parameters (for stored procedures)	5%
LEFT OUTER JOIN or RIGHT OUTER JOIN operation.	10%		Develop at least one view	10%
Insert new rows into a table	5%			
Updating Individual Rows	5%			

Notice:
1. Database that you developed in this assignment will be used within next assignments of the course "Enterprise computing"
2. Presentation of the application by each student will be based on "face to face" discussion with lecturer.
3. Time of presentation will not exceed 15 minutes
4. If a student provides a solution and is not able to explain it – 80 % marks will be taken from item marks.
5. If presentation of assignment will not be done by students during group lab session within presentation week, each presentation after due week will be penalized by taken 20% off per each week delay of the total score of presentation