

**CT230 Database Systems I**  
**CT241 Information Systems I**  
**22-September-2011: Assignment 2**

Due: Corrected at lab on Thursday 29<sup>th</sup> October

**Learning Outcomes:** To become familiar with MS Access 2007 and the COMPANY database example we will use in class.

**Goal:** This assignment involves the creation of some of the relations from the COMPANY schema (from class). You will have a larger number of relations to create in a future lab so the aim of this lab is to allow you practice relation and constraint creation in Access. As a result, this assignment will not have equal weight with future assignments.

**Tasks:**

1. Create the DEPARTMENT, DEPT\_LOCATIONS and PROJECT relations using the Design View. Use relation names and attributes as shown in the company schema
2. Create the constraints between DEPARTMENT and DEPT\_LOCATIONS and PROJECT using the Relationships view.
3. Enter sample data from the COMPANY instance (Fig. 7.6) for the three relations. Note that you may want to omit details of one project so that it can be used for correction purposes (see below).

\* See handout on blackboard and from lecture for details on how to create relations in design view in MS Access 2007

**Notes**

- As we are not including the EMPLOYEE relation there are no constraints specified on MGRSSN in the DEPARTMENT relation.
- Recall that foreign keys must be of the same type and from the same domain as the primary key they reference.
- Check the sample instantiation for an idea of the attribute types (e.g., integer, date, text)
- Corrections can only happen if the attribute names and data from the company schema are used.

**Correction:**

Lab assistants will check your database on Thursday 29<sup>th</sup> in the lab. This will involve you showing:

- 3 relations with sample data (3 marks).
- Relationship window (4 marks).

You must also enter a sample tuple in the project relation, and show the result with:

- a correct DNUM (1 mark).
- an incorrect DNUM (1 mark).
- an incorrect PNumber (1 mark).

Note that there will also be a new assignment on Thursday 29<sup>th</sup> which you can begin working on while waiting for the lab assistants to correct your work.