**Database Management**

**2011-2012**

**1st Homework: Social Database**

**(Do the homework with your buddy. Due date is 17-18 November 2011)**

In this homework, you will search the terms given below:

* Social database
* Social computing
* Social network
* Social network analysis

After studying the above terms, you are expexted to:

1. Write a brief explanation (1/2 A4 pages for each of them) about these terms using your own words (in English or in Turkish-English is +10 points)
2. Analyze the well-known social web applications listed below in the light of the social database design given in the next page.
   1. Facebook
   2. Twitter
   3. Foursquare
3. Write an analysis report for each of the social web application:
   1. What is the aim of each social web application?//her uygulamanın amacı?
   2. What are the main entities of them?//ana entity
   3. What are the characteristics of each entity?//her tablo içinde hangi entity lar saklanmış
   4. What relationships exist among the entities?
   5. What are the constraints related to entities, their characteristics and the relationships among them?
4. Design the relational model of the social database of your own choice among the social web applications you analyzed. Write down the appropriate SQL scripts (DDL statements) for creating the database and its relational model. You can select any of the DBMS you wish.

(analiz ettiğiniz sosyal web uygulamaları arasından,kendi seçtiğiniz sosyal veritabanının ilişkisel modelini tasarlayın.yarattığınız veritabanı ve onun ilişkisel modeli için uygun SQL scriptleri yazın…)

1. Populate the database you just created again using SQL script file loaded with sample tuples. (The tables should have enough number of tuples for the SELECT statements to be run accordingly.)

(Aynı tuple ları kullanarak yüklenen SQL komut dosyasını kullanaraktekrar yaratılmış olan veritabanını doldurun…)

1. Write down the following SQL statements:
   1. Write sample INSERT, DELETE and UPDATE statements for 3 of the tables you have chosen.
   2. Write 10 SELECT statements for the database you have implemented.
      1. 3 of them should use just one table.
      2. 4 of them should use minimum 2 tables.
      3. 3 of them should use minimum 3 tables.

