

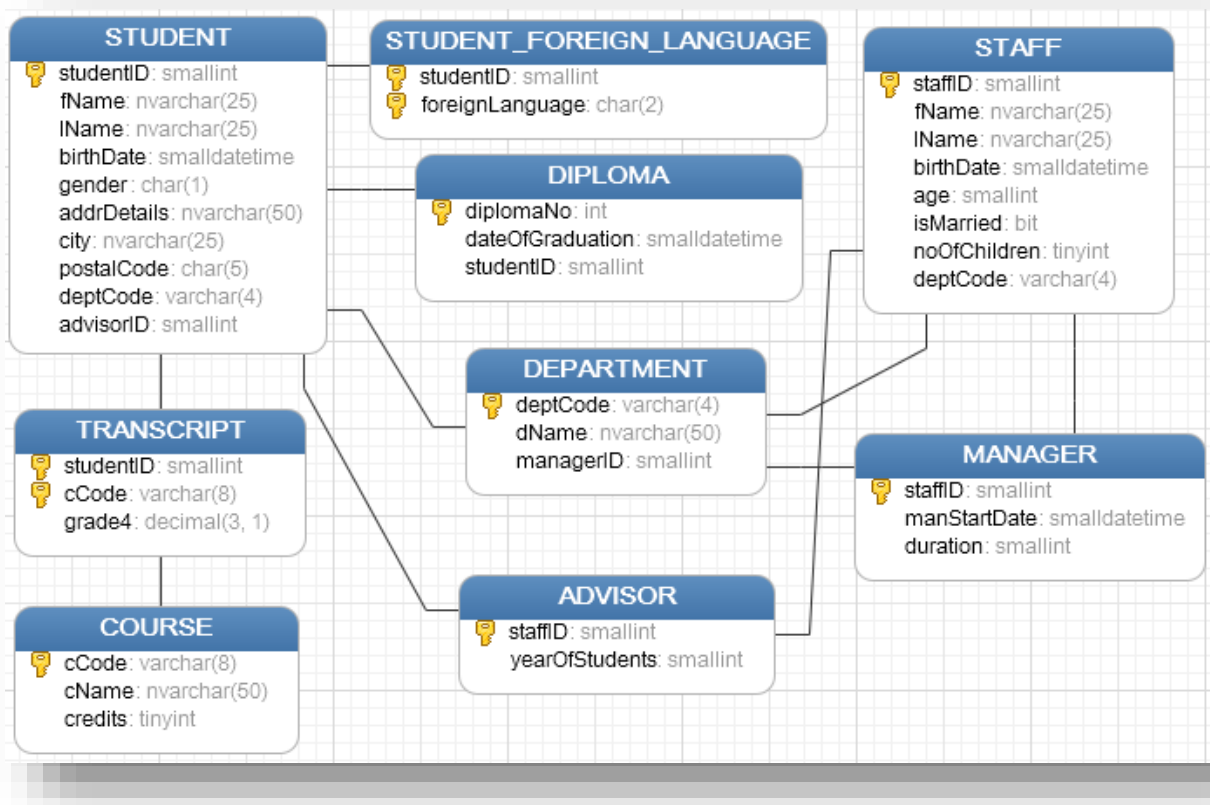
Marmara University – Faculty of Engineering – Department of Computer Engineering

## Fall 2017 – CSE3055 Database Systems Homework #3

(Due: 10.11.2017)

**1) [58 pts] Database Implementation.**

- a) [30 pts] Implement the following database on MS SQL Server. Name your database as your LASTNAME-FIRSTNAME using English letters.**



- b) [3 pts] Assign default values “İstanbul” and “34722” for the fields *city* and *postalCode* of table *STUDENT*, respectively.**
- c) [20 pts] After implementing your database, use the MS Excel file “cse3055-fall2017-homework-3-data.xlsx” to import data. In order to import data on MS SQL Server, right click on your database (LASTNAME-FIRSTNAME), point to “Tasks” and click on “Import Data...”.**
- d) [5 pts] Backup your database. In order to take a backup on MS SQL Server, right click on your database (LASTNAME-FIRSTNAME), point to “Tasks” and click on “Back Up..”. Name your backup file as “hw3-LASTNAME-FIRSTNAME.bak”.**

**Student ID:**

**Student Name:**

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- 2) [42 pts] Write the following SQL statements on your MS SQL Server database. For each of the following query, take a screenshot of both your SQL query and output of the query on MS SQL Server.
- a) [7 pts] List first name, last name, birthdate and city of students.
  - b) [7 pts] List first name, last name, department name, advisor's first name and last name. Order the list by department name ascending and student's last name.
  - c) [7 pts] List distinct first and last name of students whose department is Computer Engineering.
  - d) [7 pts] List all attributes of the students whose first name contains 'at'.
  - e) [7 pts] List staff ID, first name and last name of married managers who is older than 40 and have at least 2 children. Order the list by birthdate.
  - f) [7 pts] List student ID, first and last name, department name and graduation date of students who have graduated after 21.05.2010.
- 3) Compress your database backup file with the screenshots in a zip file. Name it as hw5-LASTNAME-FIRSTNAME.zip and submit it.