

# CMPE 351: Database Systems

## Worksheet 2

Istanbul Bilgi University

1. Create **University** database.
2. Create **STUDENTS** table. The attributes and data types should be as following:
  - (a) ID integer,
  - (b) name varchar,
  - (c) registration\_date as date,
  - (d) gpa float.
3. Populate the table as following image

**STUDENTS**

ID	name	registration_date	gpa
1	Ada	2010-01-02	3.5
2	Berk	2009-10-15	2.3
3	Aaron	2010-06-18	2.7
4	Muhammad	2005-08-08	3.0
5	Elizabeth	1999-11-20	2.2

Figure 1: Simple snapshot of Students table.

4. Show all students whose name starts with "a" letter
5. Show all students registered in 2010.
6. Show all students whose gpa is above 2.5.
7. Add new column into **STUDENTS** table, called as *phone* with varchar data type.
8. Insert new phone numbers for all students.
9. Calculate the standard deviation of the students' gpa.