

## ETM 58d Business Analytics

### Homework 3, due May 9<sup>th</sup>, 2019

Instructions: Please solve the following exercises using R (<http://www.r-project.org/>). Also, you are requested to use certain R packages for this particular homework. You are expected to use GitHub Classroom and present your work as an html file (i.e. web page) on your progress.

**Do not share your code (except the one in your progress journals)! As a fundamental principle for any educational institution, academic integrity is highly valued and seriously regarded at Boğaziçi University.**

#### Task

In this task, you are expected to develop a shiny app for visualizing the match information on an html page. Please provide the following functionalities in your shiny app:

- User can **filter** the **seasons** and **teams** to see the matches of a specific team for the corresponding season as a **table** (you can assume that each season starts in July and ends around June). This table should include fields as **Home, Away, Date of the Game, Score** of the game.
- User can filter the **seasons** and **teams** to see the statistics of a specific team for the corresponding season as a **graph**. This graph should be a bar-chart representing the **average goals scored** and **conceded by the team for home and away games**.