

## Computer Science – September, 9th 2009

Some data about some university basketball teams are available. Each available row of data refers to a separate team and consists in: name of the team, name of the university which the team belongs to, total of points scored, total of points conceded, number of players employed, annual bonus assigned to each player of the team by the university, total of season tickets sold.

Using these data, produce an Excel worksheet (the most) similar to that attached to this paper.

Login to *moodle.units.it* and choose the Computer Science website. The assignment, with the available data and this document, can be found as last topic.

Notice that:

- **DATA MUST BE COPIED IN A TEXT FILE AND THEN IMPORTED INTO THE WORKSHEET.**
- Table 1 contains the average number of points scored and conceded per each player employed by the teams and the ratio between the number of points scored and conceded.
- Table 2 summarises the number of teams which scored not less than 1000 points but less than 1100 points, the number of teams which scored not less than 1100 points but less than 1200 points, and so on (see the Table).
- Inserting the name of a team, where requested, displays the university which it belongs to, as contained in Table 1. Use appropriate Excel functions.
- The price of the season tickets for the matches of each team is fixed by each university and is given in Table 3 (each season ticket applies to the matches of one team only, which is chosen by the buyer). By using the total number of season tickets sold for each team, calculate the income for each university in Table 4. Table 4 must contain also the total bonus paid to its players by each university.
- Table 5 **MUST** be a pivot table. It contains, for each university, the total of season tickets sold, the maximum and the minimum of points scored by a team of that university, the average number of players employed by teams of that university. The pivot table must be expanded to display the details for each team.
- The chart displays the data in Table 4.
- Name and surname must be inserted at the beginning of the worksheet.
- You should use formulas or other Excel tools in a convenient way when their use is appropriate.
- Your work will be evaluated on the basis of the way and the tools you use to produce the Excel file and to solve the related problems.

Please, remember:

- Save your file often, giving it a name with a clear reference to your name and surname (for instance: *myname\_mysurname.xlsx*).
- Using the Excel help is allowed. Using books or other sources of information is **NOT** allowed.
- Communicating, talking and copying is **NOT** allowed (**the network activity is monitored!**).

Violating the previous rules causes the exclusion from the exam. Everyone works on his own file under his own responsibility.

Maximum time: **60 MINUTES.**

When you accomplished the assignment, complete the topic in the course website uploading your excel file. **Results will be put up on the 4<sup>th</sup> floor of the faculty on September, 9th (today) at 17.00 and the individual registration of the results will follow immediately.**