

# CS130/230 Assignment 3

## SPSS

**Date Assigned:** Wednesday, October 11, 2006

**Date Due:** Wednesday, October 18, 2006

**Total Points:** 60

Create a new MS WORD document called '03StatsPUNET.doc', where PUNET is your PU Net Id. The solutions to all of the following problems should be placed in this file, including copies of all the charts and tables that you create.

Make sure that the solutions are provided in the order given, and that you include the problem number and question number with each solution.

### **Problem 1: University of Florida Statistics**

For this problem, you will be using the 'University of Florida graduate salaries.sav' file, located in the directory 'c:\Program Files\SPSS'.

Open up this file in SPSS and answer the following questions in the MS WORD document described above.

- a. Create a line chart comparing the means of the salaries over time. The x-axis should be the graduation date, and the y-axis should be the mean starting salary.

Describe how the average salaries of graduates change over time?

- b. Create a pie chart of the number of graduates from different colleges. Each slice should represent a college.
- c. Create two pie charts depicting the number of graduates from different colleges. The charts should be split by gender. So, one pie chart for males, and one for females.

What conclusions can you come to by observing the charts.

- d. Create a clustered pie chart comparing the male and female graduates in each of the colleges. The x-axis should be the college, and the y-axis should be the count of graduates.

How would you change the y-axis to be the percentage of graduates in each college? Create the chart.

- e. How many graduates were there from the college of Business Administration? How did you come up with your answer?

## **Problem 2: The World in 1995**

For this problem, you will be using the 'World95.sav' file, located in the directory 'c:\Program Files\SPSS'.

Using the above file, come up with four questions about the data and use SPSS to find the answers. You should have at least three charts and one table in your solution. You will be graded on the quality of the questions.

Place the questions, any charts or tables that you used to find the answer the questions, and any conclusions that you came to for each question in the MS WORD file.

## **Problem 3: Sports Statistics**

For this problem I want you to compare and contrast the careers of two sports persons using descriptive statistics. Search the Internet for this data. Also, you should just focus on one aspect of their careers. For example you could compare the homeruns of Joe DiMaggio and Mickey Mantle who both played for the Yankees.

- a. Enter the data that you find into SPSS. You might find it simpler to copy the data into an Excel spreadsheet then import that Excel spreadsheet into SPSS.
- b. Produce the descriptive statistics for this data.
- c. Copy the descriptive statistics to your MS WORD document (the same one that you used in the previous problem) and discuss what the descriptive statistics tell you about each player. Be as detailed as possible.

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Place your Word document and the dataset created in Problem 3 in a folder called your PUNET (e.g. khoj0332). To be considered on time, this folder must be placed in the CS130 Drop Box by 6pm on the date in which the assignment is due. Remember, answering questions out of order will result in a significant loss of assignment points.