**Conestoga College**

**Spreadsheets**

**COMP1084 – Marketing Program**

# Assignment 2: Data Analysis

**Assignment Worth:** 20%

**Assignment Type:** Individual.

## What the assignment is about:

You work as an analyst. You have been contracted by the Major League Baseball Association. They have given you the salaries and stats of all the ball players and want you to answer six (6) questions with detailed answers – **please copy existing data onto new sheets for EACH question! Use the data as needed, so that each question is answered on a separate sheet.** (Name the Sheets Q1, Q2, and so on.)

1. Using the Baseball Salaries data, insert the VLOOKUP function to display the Team Name and number of Wins into column F and G. **Format the column headings in row 1 with formatting/colors of your choice – but do not leave as is.** (5 marks)
2. Which position makes the most money (has the highest average salary)? You decide which method to use to obtain the answer, as long as the question is answered! (and work must be shown to obtain marks) **Include a suitable chart displaying the average salaries, and a statement to conclude your answer.** (5 marks)

For your information baseball positions are:

P = Pitcher

C = Catcher

CF = Center Field

LF = Left Field

RF = Right Field

1B = First Base

2B = Second Base

SS = Short Stop

3B = Third Base

DH = Designated Hitter

1. Using conditional formatting, identify the top 10% salaries in green and the bottom 10% salaries in red. (5 marks)
2. Is there a correlation between a team’s total salaries how many games they won? Show and explain your work with a scatter plot graph. Hint: you need to first summarize the total team salaries and average team wins, either using SUMIF/AVERAGEIF or a pivot table (note, you can’t use pivot tables as the input for a scatter plots – but once you have a pivot table you can copy and paste the results as numbers-only into another area in the worksheet) **Include a statement to conclude your answer.** (5 marks)
3. Calculate the following for team salaries: average, min, max, count, sum. Be sure to include labels for each calculation, and use **Team Salaries** not player salaries! (can be copied and pasted from Q4) **Format this information appropriately with formatting/colors of your choice so the information stands out, then add a pie chart for the Min/Max/Average data only (also add a chart title).** (5 marks)
4. Using the Team Stats worksheet data, calculate the Win PCT (percentage) for each team, the number of wins vs. the total games played. Sort the range highest to lowest in the Win PCT column. (5 marks)

## What you will need:

* Start by downloading and opening the Excel file (Baseball salaries.xlsx) from eConestoga

## What you need to hand in:

* An Excel workbook uploaded into Assignment 2 Dropbox in eConestoga, with each answer clearly marked on separate worksheets. Include your name in the file name, and format the data on each sheet appropriately. Due in Week 6.