**ASSIGNMENT 1**

**COP3710.01 Database 1: Introduction to Database System (25 points).**

In this assignment, you will implement the file processing system. You should develop the application to read data from csv file, and process data to answer the following questions:

**Q1: How many players for each team in MLB?**

**Team The number of players**

**XXX 99**

**YYY 99**

**…. ….**

**Q2: How many players for each position in MLB?**

**Position The number of players**

**XXX 99**

**YYY 99**

**…. ….**

**Q3: Who are the tallest and shortest players in MLB?**

**Tallest:**

**XXX 99**

**…. ….**

**Shortest:**

**YYY 99**

**…. ….**

**Q4: Who are the heaviest and lightest players in MLB?**

**Heaviest:**

**XXX 99**

**…. ….**

**Lightest:**

**YYY 99**

**…. ….**

**Q5: What is the average age of players in MLB?**

**999.99**

Instruction:

1. Download the csv file “mlb\_players.csv”.

Each record contains player name, team, position, height(inches), weight(lbs.) and age

Example:

“Adam Donachie”, “BAL”, “Catcher”, 74, 180, 22.99

1. Write the program using any programming languages such as C, C++, C#, Java, Python, BASIC, etc.
2. Feel free to design the interface. This is a sample interface:

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**MLB Players**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**1. How many players for each team in MLB?**

**2. How many players for each position in MLB?**

**3. Who are the tallest and shortest players in MLB?**

**4. Who are the heaviest and lightest players in MLB?**

**5. What is the average age of players in MLB?**

**6. Exits**

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**Select: 1**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Team The number of players**

**BAL 35**

**YYY 99**

**…. ….**

1. Turn in your codes, csv file in folder name “COP3710ASSIGN1\_XXXX” where XXXX is your student id and zip the folder before submitting your assignment.

Note: There are sample assignments in C++, Java, and Python that you can use as the guideline to do this assignment.