

# DA 6223 Quiz 1

**Note:** To receive credit for this quiz, please submit your SAS project (.egp) file before the submission deadline on Blackboard. Discussions between students are NOT allowed. You may consult to lecture notes, demonstrations, exercises, etc. Good luck!

## Problem 1 (9 Points)

### Multiple Choice

For multiple choice problems, **only one of the answers is correct. Please write your choices in the following table.** Each problem worth 2 points. Create a new Process Flow and name it as **Problem 1**. Add a Note to this Process Flow and type your answers for the multiple choices into the Note.

1	2	3

- Which of the following variable attributes is not required?
  - Name
  - Type
  - Length
  - Format
- How many of the following functionality are included in both **Filter** and **Sort Task** and **Query Builder**?
  - Sort Data
  - Filter rows and columns
  - Define new columns
  - Group and summarize data
  - Define column attributes
  - 0
  - 1
  - 2
  - 3
- How long can a valid SAS variable label be?
  - 8 characters

- B. 32 characters
- C. 256 characters
- D. 32,767 characters

**Problem 2 (3 Points)****Assigning a Project Library**

Create the **quiz** library to access the Orion customer and employee SAS data sets.

- a. Create a new Process Flow.
- b. Use the Assign Project Library task to create the **quiz** library and point to the location of the course data on *C* drive. This library should have the **access=readonly** option.
- c. Rename the Process Flow as **Problem 2**.

**Problem 3 (5 Points)****Using the Query Builder to Group and Summarize Data**

Use the Query Builder to create an output table with the average payroll by city.

- a. Create a new Process Flow. Open the **employee\_\_master** data.
- b. Use the Query Builder to create a query named **Average Salary per City Query** and an output table named **AvgSal\_\_City**.
- c. Include only the **City** and **Salary** columns in the query.
- d. Select the **AVG** (average) statistic for Salary. After you choose a summary statistic, the Summary groups section appears on the lower part of the Select Data tab. The **Automatically select groups** check box is selected.
- e. Sort the table in decreasing order of **AVG\_\_of\_\_Salary**.
- f. Rename the Process Flow as **Problem 3**.

**Problem 4 (3 Points)****Naming the SAS project file and Submitting it through Blackboard**

Please follow the instructions below when turning in your project file on Blackboard.

- a. **SAS Enterprise Guide project (.egp) file needs to be formatted as First-name\_\_Lastname\_\_ABC123\_\_Quiz1.egp** (For example, if a student is named Wenbo Wu, his project file should be named Wenbo\_\_Wu\_\_ABC123\_\_Quiz1.egp).
- b. Submit your .egp file to the Quiz 1 folder on Blackboard before 12:30 PM.