

Assignment08:

1. (5 points) What is SQL?
2. (5 points) What is SQL procedure?
3. (5 points) What is PROC SQL table?
4. (5 points) What is a Query, what it does, what do you use in PROC SQL to form a query?
5. (10 points) Compare DATA step and PROC SQL.
6. (10 points) Modify the PROC SQL step using *class_birthdate* dataset in *p107a01.sas* code to perform the following tasks and create a report showing result properly. Make sure to enhance your reports with titles, footnotes, and labels.
 - **Name** in UPPERCASE
 - **Birthdate** in 10/26/2004 format
 - **Height** greater than or equal to 160.0 **cm**
 - Descending **Age** order
7. (10 points) Modify the second PROC SQL step using *storm_summary* dataset in *p107d02.sas* code to do the following tasks and create a report showing result properly. Make sure to enhance your reports with titles, footnotes, and labels.
 - Retrieve only the **Season**, **Name**, **StartDate**, and **MaxWindMPH** columns.
 - Format **StartDate** with MMDDYY8.
 - Modify **Name** in the SELECT clause to convert the values to proper case.
 - Add a WHERE clause to include storms during or after the 2010 season with **MaxWindMPH** greater than 156 and Name contains 'M'.
 - Add an ORDER BY clause to arrange rows by descending **Name**, and then by **MaxWindMPH**.
 - 3 levels of TITLE showing season, max wind MPH and name criteria.
8. (10 points) Fix the Errors in 'SAS_SQL_example_code_2.sas' program file.

9. (15 points) Fix the Errors in 'SAS_SQL_example_code_4.sas' program file.
10. (15 points) Fix the Errors in 'SAS_SQL_example_code_6.sas' program file. Make sure properly use the Excel file 'US_population_2019.xlsx' provided to fix the errors.
11. (5 points) After finishing 'Lesson 7: Using SQL in SAS', take a screen shot, i.e., submit the whole screen image with all 3 components in red box (**your name**, **check marks** for finished Lessons, and **Progression Bar**).
12. (5 points) Submit the pdf files of your **SAS Digital Learn Badge** and **Course Completion Certificate**.
Congratulation you completed the 'SAS Programming 1: Essentials' course!
13. (extra 5 points) Discussion08.