ORLA 6641

Exercise 2 – Survival models. Due March 2 by 11:55pm on Canvas.

1. For Exercise 2, please answer the questions from the end of chapter 11 of Mertler and Vannatta (2017), including questions 1-3.

   Datasets for M&V (2017) can be found under the eResources tab at
   www.routledge.com/9781138289734

   In addition, please use the UCLA Stats resource for the SPSS syntax to work through Singer & Willett (2003) (https://stats.idre.ucla.edu/other/examples/alda/) to complete the following questions.

2. The dataset used for each chapter can be downloaded from the top of the ats.ucla.edu website for S&W (2003).

3. Recreate and report the life table from page 327, Table 10.1, following the recommendations of S&W (2003) for reporting event occurrence and showing your work from SPSS.

4. Using your version of table 10.1, in narrative form describe the purpose and interpretation of each major section of the life table, such as time interval, risk set, censoring, hazard function, survivor function, median lifetime.

5. Recreate and report the plots of the hazard and survivor functions from page 333 Figure 10.1 and describe the major components and interpretation of each plot.

6. Using proper APA format, fit and report (in a table and narrative form) the basic discrete-time hazard model on page 386 of S&W (2003) in SPSS. Please show your work and report the syntax from the SPSS syntax editor.

7. Provide a 2-3 page single spaced brief research proposal in which you argue for and justify the use of discrete time hazard modeling in a research topic that you are interested in. Please address the following questions in this order as you apply your new knowledge of hazard and survival models:
   a. What is the purpose of your study?
   b. Is there any research literature and theory that supports this argument? How so?
   c. Why is survival modeling appropriate as a means to address this purpose?
   d. What would be the research question(s)?
   e. What type of dataset would you need? Is there a dataset you know of that would work?
   f. What types of data would you be looking for?
   g. Provide the generalized equation for the model and a brief narrative in which you specify the discrete time hazard model, following the examples from the readings.
   h. What do you think you would find?
   i. Why would this be important? What would be the implications for this research domain?

Please format your response appropriately in a Microsoft Word file, using Times New Roman 12 point font, and copy and paste the appropriate SPSS output where required directly into the Word document.

When typing up your response, please make sure to first list the question number and please include the wording of the question as much as possible to make it easier for Bowers to read through the responses (where M&V give output from SPSS to interpret, just give the wording of the question please).

Please use SPSS for Exercise 2.

Please feel free to work in groups of 3 or less on the Exercises. Please make sure to include an APA cover page at the start of your response with the names of your collaborators on the exercises.

There is no page limit, but please try to be concise where possible while fully answering the questions.