BAN 602 Case Assignment 1

The pursuit of a higher education degree in business is now international. A survey shows that more and more Asians choose the master of business administration (MBA) degree route to corporate success. As a result, the number of applicants for MBA courses at Asia-Pacific schools continue to increase.

Across the region, thousands of Asians show an increasing willingness to temporarily shelve their careers and spend two years in pursuit of a theoretical business qualification. Courses in these schools are notoriously tough and include economics, banking, marketing, behavioral sciences, labor relations, decision making, strategic thinking, business law, and more. The data set BAN_602_Case_1 shows some of the characteristics of the leading Asia-Pacific business schools.

Please prepare a case report that addresses the following:

1. Include a summary (mean, median, standard deviation, variance, range, and inter-quartile range) for each quantitative variable in the dataset. Use a table to display the summary measures of all the quantitative variables in one place. What insights do these descriptive statistics provide regarding the Asia-Pacific business schools? (10 + 5 = 15 points)
2. Summarize the data to compare the following:
   a. *Mean* differences between domestic and foreign tuitions for schools requiring versus not requiring GMAT. (5 points)
   b. Any difference between *mean* starting salaries for schools requiring versus not requiring work experience. (5 points)
   c. Any difference between *mean* starting salaries for schools requiring versus not requiring English test. (5 points)
3. Does starting salary appear to be related to domestic tuition? Does starting salary appear to be associated with foreign tuition? Justify using both visual and numerical measures. (5 + 5 = 10 points)
4. Draw a boxplot to graphically summarize the starting salary data. Identify the first, second and third quartiles from the boxplot. Are there any outliers? (4 + 4 + 2 = 10 points)

Format of the deliverables:

1. The typed case report must be in Microsoft Word or PDF format and uploaded on Canvas by the due date. Each group must upload only one report.
2. The typed case report must **not** contain any R code. The report must answer all the questions separately and sequentially. <u>You must include graphs and/or tables as asked in the question, followed by a written analysis and interpretation.</u>

3. *All* computations must be done in R and the ***executable*** R script file must be uploaded on Canvas as well.
4. No part of the associated dataset can be changed manually. Any changes in the dataset, if necessary, must be made using R code and documented in the submitted R script.
5. The case report must be written in Times New Roman font with font size 12 and single-line space.
6. The number of pages in the written report must not exceed five (5) excluding the cover page (if any).
7. The names of all the participating group-members must be on the first page of the report.