**MBAN Assignment 3.3**

You are continuing your analysis of an online education business like Datacamp that you should all be familiar with. Your task is to build an analysis including visualizations that covers key metrics and charts to show student engagement and identify areas of improvement by answering questions in Section 1. You are expected to use your AWS environment to complete this assignment. This includes both Quicksight and RDS connected to your SQL client. You are expected to provide a report that has answers to the questions in Section 1. Your report submitted in .PDF or .DOC needs to be in the form of a Q&A which includes a screenshot from your SQL client showing your client being connected to the AWS server running. You are also expected to submit a .TXT or .SQL with your SQL code. Make sure to reference each query in your responses. See Section 2.

**Section 1**

Q1: Which courses are the most watched by students, and how are they rated?

Q2: How many students register each month, and what fraction are also onboarded?

Q3: How do students engage with the online platform (minutes and average minutes watched) based on type (free-plan or paying)?

Q4: Do students watch more content with time, and does it vary seasonally?

Q5: Which countries have the most students registered, and does this number scale proportionally with the number of minutes watched per country?

**Section 2**

In addition to all the considerations shared in class and on MyCourses, please note the following:

1. **Substantiate every answer with quantitative data and references.** For example, don’t just say the most attended course is “Algebra”. Instead say “The most attended course is Algebra with X students enrolled (ref. SQL code 1 and chart 2). Data cited need to come exclusively from the database provided and include the specific reference of the SQL code used to obtain the answer.
2. **Your charts, code and answer need to be consistent.** For example, if you are reporting a “Course X has Y total number of students enrolled”, running your SQL code need to provide me the same tabular view, which means I need to be able to see at least 1 row in the results of the SQL results showing both the course, and the total number of student columns. One of the rows need to include the answer cited in the report. Similarly, any charts used need to provide the answer to the question that is visible. For example, if you are showing how many total students enrolled in 2023, make sure your chart shows the aggregate enrollments by year. Do not show a monthly view if the question asks for a yearly view.
3. **Cite usage of ChatGPT or similar generative AI tools.** Include prompt and response. Include a short commentary of the approach used to create the appropriate prompt.