**Discussion Board Forum Assignment:**

In the past week, I have improved my knowledge on how to use Node.JS and MySQL for use with trying to connect with Amazon Cloud SQL services, and have attempted to connect the database with the problem, only to be met with constant connection issues and functions not applying like they should, as well as trying to deal with Amazon’s multiple services that cause complications and confusion.  
In spite of that, I decided to focus my efforts on applying the instruction material and references on making a horizontal bar graph and applying other options, with only the horizonal bar graph yielding success. Regardless, I had also learned that:

* Typeof <variable> helps with finding the given variable type (i.e. console.log(“Retrieved: “ + typeof records); outputs to “Retrieved: String”).
* Multiple readline prompts stacked aren’t the best uses, but they worked well in my case.

I have improved upon my knowledge in:

* try/catch being used more often helps with determining what errors happen and how the program can move on if instructed.
* Utilizing the CLI for advanced outputs.

I found that the most interesting part of Node.JS and server-side JavaScript alongside MySQL with Bar Generation was the use of asynchronous programming made to speed up the process of making a bar chart, especially with how much data is used to make the program’s bar chart generation run at a fast yet efficient speed. What I also found interesting was the use of “typeof”, which can be helpful in situations where values need to actually be part of specific types in a given program, whether for advanced program development or otherwise.  
I tried to use two module libraries for making the graph but it ended up causing too much outputs of a graph to be displayed, as well as repeated information being printed, so I decided not to use module libraries at all.

When it came to the original project that was intended to be made, website resources once again worked best for me, specifically the API explanation from the Postman blog of using Postman, Node.JS and MySQL together. This is because it covers the aspect I was looking for where database connectivity can be used, and on a web/cloud server for instance. Online videos also help still, but not as much as sources, and there aren’t as many videos of Node.JS with MySQL and Postman used together.  
When it came to the bar graphs, I figured it out on my own but took a painfully long time to get together.  
Forums yet again continue to take very long for me, due to having to also go through non-relevant and incorrect information provided.  
Documentations took the least time, for the reason that they have concise information.  
Resources: <https://blog.postman.com/build-an-api-with-postman-node-js-and-mysql/>, <https://www.linkedin.com/pulse/database-integration-postman-xmysql-umme-habiba/>, <https://medium.com/@vishnu_squareshift/simplifying-database-connections-with-cloud-sql-node-js-connector-31fd2c85bbce>, <https://stackoverflow.com/questions/51955252/using-mysql2-npm-package-on-google-cloud-sql>.

The Work Breakdown Structure that I use remains fair and I find has sufficient detail. The process I had for creating one was good enough to use; though as always, improvements can be done.  
The Gantt chart yet again uses due dates that are intended to be close by to the due date, but that still resulted in making it neither overestimated nor underestimated. I still kept getting denied to use the intended dates to match closely to what I want.

**Student Feedback Part:**

Star Rating: 5  
  
I enjoyed reading your post! I had taken up and been through the library usage experience where graph libraries were used to get the given graph showing as expected and in an advanced manner; unfortunately I have not been successful in getting the outputs to show up as I want it (i.e. there were too much outputs and repeated outputs that make it very hard to read the graphs). I haven’t used the same sort of resources since mine was intended to be for a different project, but I had been benefitting from something like those when I did my research. I’m able to relate to the resources used, despite me figuring out what needs to be done out on my own without sources pertaining to the graphs and chart creation. You did well overall, and I wish you all the best in your future studies!