CS-499-X2150

Computer Science Capstone – Enhancement Three

Databases

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The second artifact I selected for algorithms and data structure was the final project I completed during my DAD-220 course. This was the third enhancement I made for this CS-499 course. The DAD-220 final project was related to using CRUD (Create, Read, Update and Delete) on a variety of databases in MySQL. Some databases were already set up and needed to be updated. In order to update the SQL queries, I previously wrote, I had to install MySQL on my PC and recreate the databases I used in Codio during the course. The final project was completed in August of 2018, which was my second year here at SNHU.

In my career, I have worked with SQL in mainly Oracle databases. This course allowed me to expand my SQL knowledge into another SQL platform, MySQL. I was able to create databases, drop them as well as manipulate them in different manners. It was something I had wanted to expand my skills and knowledge on, and this course provided that. I appreciated everything that was taught to me and I liked completing the series of tasks that were assigned to us during the final project. It was a project that took me out of my comfort zone, taught me more and allowed my skills to be sharpened. I improved the artifact by improving the flow if some of the SQL and displaying different ways to complete similar tasks. I also created SQL to rebuild the databases that were available to me in Codio. This project forced me to learn a new manner of managing data structures.

I believe I met the objectives with this enhancement. While I was not able to update all of the tasks. I used some advanced SQL to update the final project SQL I had created. I navigated through them all and update the ones that I found I could and should make more efficient. There were a few tasks of inserting information into a table on a database; I added some additional entries into one query to add multiple people. Another had us delete or perform updates to another table by selecting multiple variables that exist on rows; I updated these by selecting one particular key item that distinguishes those entries and updating them. I used the auto assigned key for the entries to address the changes.

The process of updating the SQL was not too difficult. I was able to review them in Notepad ++ and update them. One of them I used Syntax that was meant for Oracle databases so that one I had to update when I got into the testing phase. My hardest challenge was installing MySQL on my PC. For the course we had the availability of using Codio. Codio is no longer available to us. I downloaded a few different installations of MySQL and could not get any of them to work and was getting errors. I used YouTube and found how to correctly install it. The internet can be a computer scientists’ best friend. Once I installed MySQL, I remembered that some of the databases we used in Codio already existed for us and had some data present. I had to go back to my course information and recreated the databases and tables we previously had access to. Once I had everything prepared, I was able to test my updates and get everything in sync.

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