

Computer Science 112

Computer Science with Java I

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Lab Report – Week 7 – JDBC

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CSCI 112 [Spring]

Assignment Analysis and Design

My program connects to a server and after establishing a connection retrieves data from a database I call for. The program then calls a method to store the information into a created class array. Once the information is stored in the array the program calls another method to sort the data in order and then calls another method to write the data into a csv file after creating the file. The second method calls for a query of the database and once the data is saved displays the data in a neatly created output chart for the conditions I asked for.

Assignment Code

Netbeans file attached.

Assignment Testing

Describe how you tested this program to verify that it runs correctly.

To test the data I first make sure I was grabbing the correct data from the database and output it to the console and then made sure the class array I created was storing the rows and columns of data correctly also. After I was able to establish that I made sure the files were properly being output to the created csv file and made it so that if the file did already exist the data in the file would be overwritten so the existing file wasn't just appended with added data everytime the program ran. I made sure the sort method was working and placed all the data files back into the array correctly. I also added the `beforefirst()` to the `resultset` before I would grab data from it to make sure I was always grabbing data from the beginning of the data table. For the second part I tried a few different queries to make sure it did in fact work and settled on the one I used last.

Assignment Evaluation

I learned a little too late in creating this program that there was a "ORDER BY crn ASC|DESC" that I could've added to avoid all the extra doing I did to sort the data because SQL databases allow this to be automatically done. I've never worked with databases because and wasn't sure what to look for and after quite a bit of searching gave up and used the knowledge I already had to finish the project. If I had learned this earlier I could've cut down the amount of code I included drastically. It's good to know I was still able to finish the program with all of the current knowledge I have about java though.