CISY 5303 GLOP: Graded Learning Opportunity

1. Set up an HTML Page, CSS Page, and JavaScript Page. Put your name at the top of the HTML page. (5 points).

1. The ultimate goal of the GLOP is to use JavaScript to print out an HTML Table that looks something like this. The three Table Headers should sort/resort the columns by ShipperId, CompanyName and Phone as appropriate. When a column header is clicked it should sort the table in alphabetical/numerical order as appropriate. If clicked a second time it should sort in reverse order as appropriate.

| **Shippers** | | |
| --- | --- | --- |
| **Shipper ID** | **Company Name** | **Phone** |
| 1 | Speedy Express | (503) 555-9831 |
| 2 | United Package | (503) 555-3199 |
| 3 | Federal Shipping | (503) 555-9931 |

1. Create a JavaScript function that defines a Shipper. That is, make the function called Shipper, which defines the properties a Shipper has. A shipper has three properties, ShipperId, CompanyName and Phone (15 points).
2. Add a prototype method to Shipper called toRow() that will print out a single row of a table based on the information contained in the object (15 points).
3. Write the JavaScript code that will create the three Shipper Objects shown in the table above. (15 points).
4. Write the SQL code that would generate the code from number 5. Just include the SQL statement at the top of your HTML Page (15 points).
5. Write the Sorting and Reverse Sorting functions for sorting the columns. Sort the Phone alphabetically not numerically or you may have issues. (15 points).
6. Create a Shippers Object that contains an Array that will contain the JavaScript objects from number 5. Create the Shippers object and add the objects from number 5 to the array (15 points)
7. Add a prototype function to Shippers called toTable() that will print out a Table of all the Shippers when run. (15 points)
8. Use JQuery to make the headers of the table clickable. When the table header is clicked, sort the table column as appropriate. (15 points)
9. Make every other row of the table a different color, i.e. half the rows white, half light green in an alternating pattern (15 points)
10. Make the table fade in and out using Query (10 points)