

CCT College Dublin
Assessment Cover Page

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|-----------------------------|----------------------------------|
| Module Title: | Web Development |
| Assessment Title: | Data Manipulation and Validation |
| Lecturer Name: | Mikhail Timofeev |
| Student Full Name: | Tolga Baris PINAR |
| Student Number: | 2022431 |
| Assessment Due Date: | 23:59 on Sunday 04/12/2022 |
| Date of Submission: | 02/12/2022 |

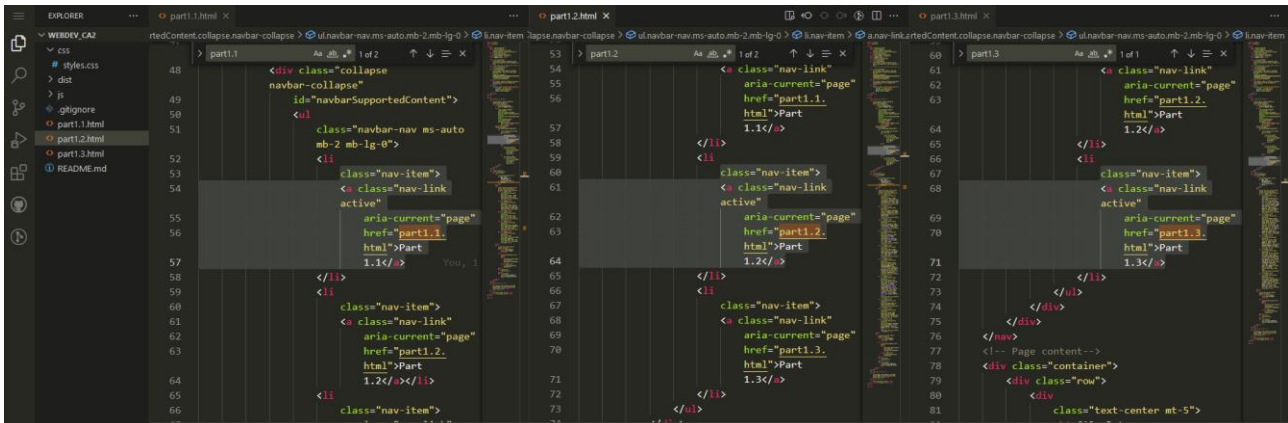
GITHUB REPOSITORY: https://github.com/tolgabp/webdev_ca2.git

Declaration

By submitting this assessment, I confirm that I have read the CCT policy on Academic Misconduct and understand the implications of submitting work that is not my own or does not appropriately reference material taken from a third party or other source. I declare it to be my own work and that all material from third parties has been appropriately referenced. I further confirm that this work has not previously been submitted for assessment by myself or someone else in CCT College Dublin or any other higher education institution.

1- Use a SQL.js library and build HTML files, which will render the results of SQL queries run against a SQLite database in a browser:

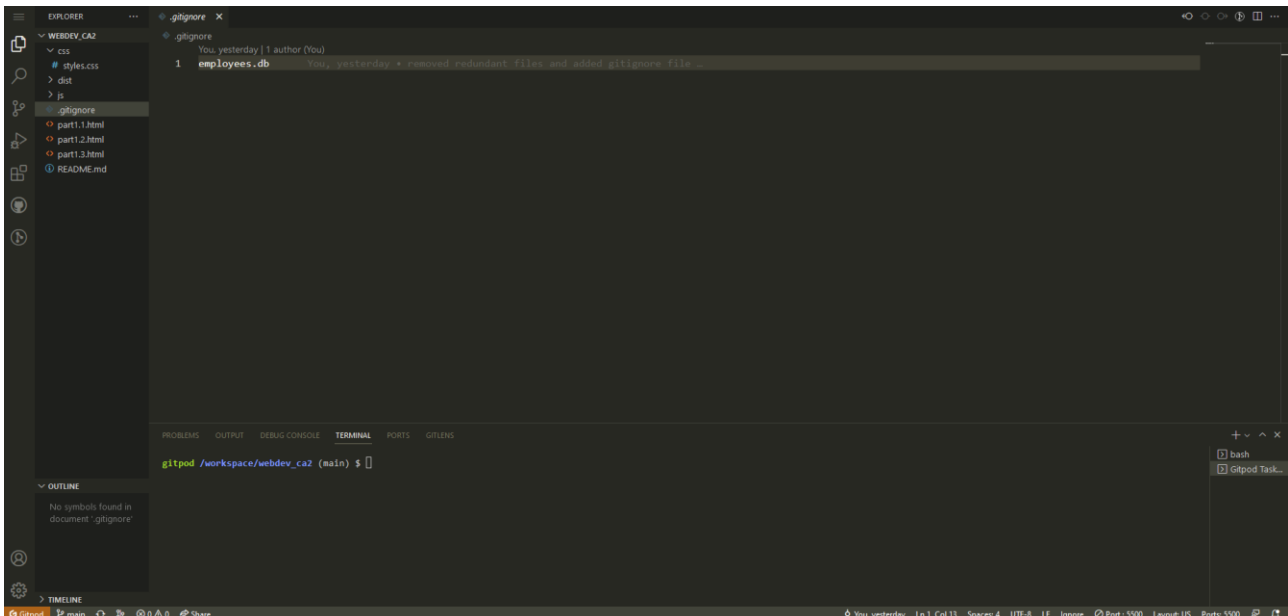
Three html files were built and linked to each other as it was given in the instructions. Also, they are named **part1.1.html** for Part 1.1, **part1.2.html** for Part 1.2 and **part1.3.html** for Part 1.3.



```
part1.1.html
48 <div class="collapse navbar-collapse" id="navbarSupportedContent">
49 <ul>
50 <li>
51 <a class="nav-link" href="#>
52 </li>
53 <li>
54 <a class="nav-link" href="#>
55 </li>
56 <li>
57 <a class="nav-link" href="#>
58 </li>
59 </ul>
60 </div>
61 <div class="container">
62 <div class="row">
63 <div class="col">
64 <div class="text-center mt-5">
65 <h1>
66 </h1>
67 </div>
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```

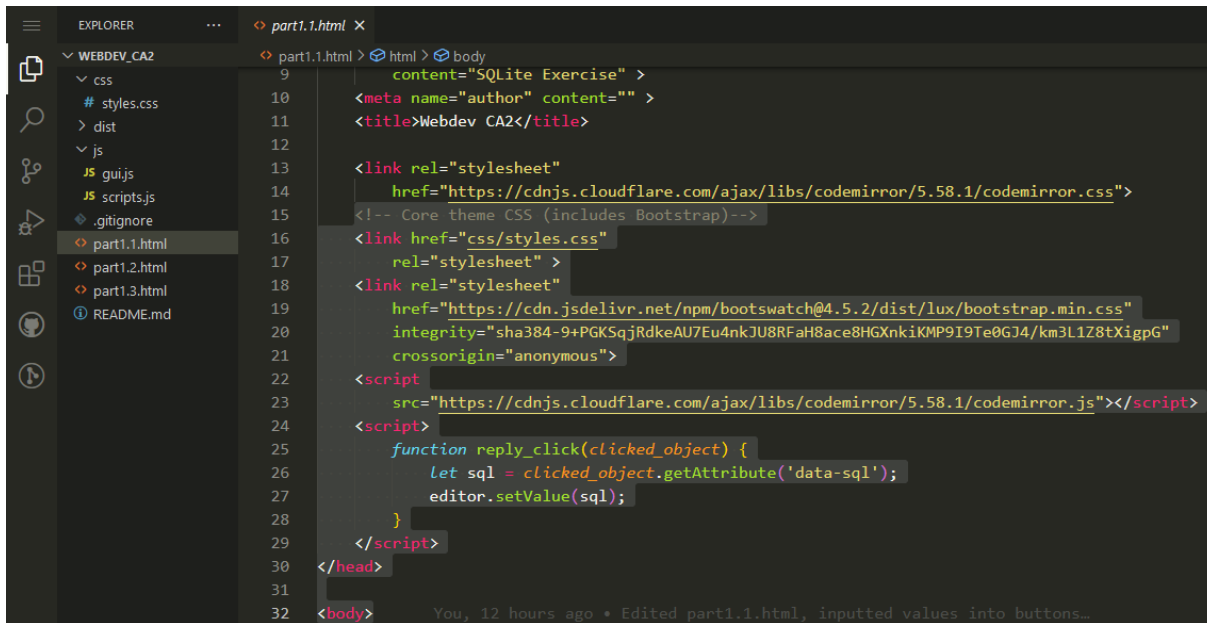
2- Create a .gitignore file and include employees.db:

Thanks to that .gitignore file, employees.db will be ignored and not be uploaded to GitHub.



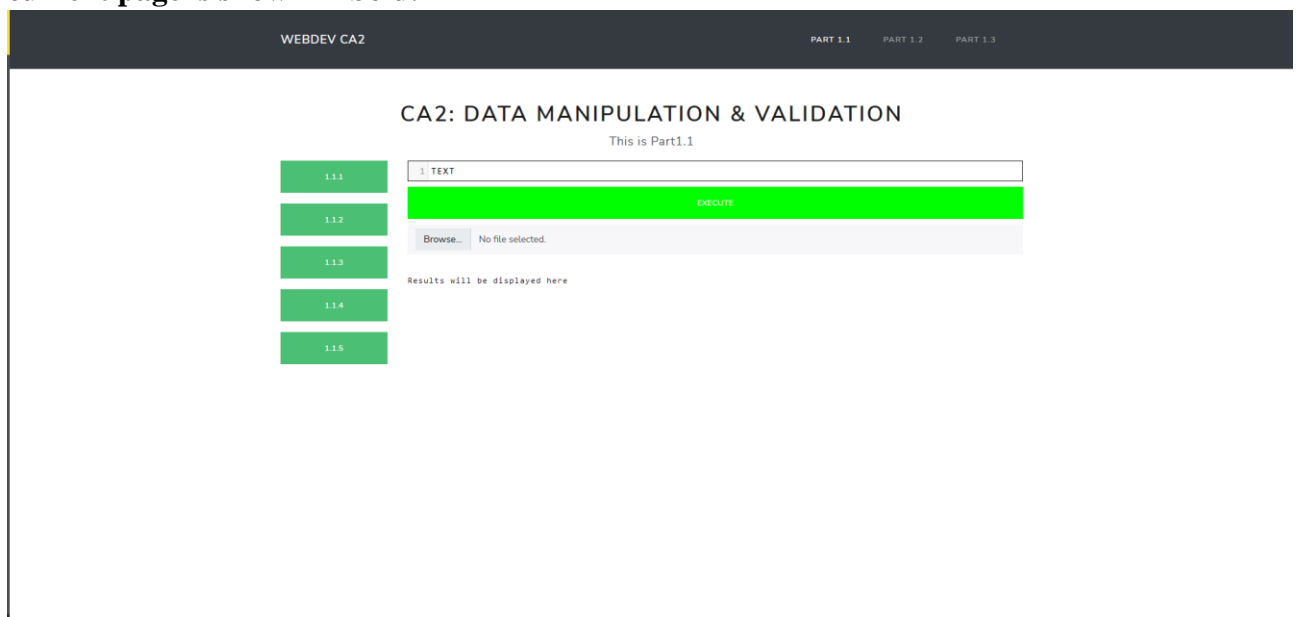
```
.gitignore
1 employees.db
```

3- CSS file (style.css) is in the same folder –Bootstrap is used:



```
9      content="SQLite Exercise" >
10
11     <meta name="author" content="" >
12
13     <title>Webdev CA2</title>
14
15     <link rel="stylesheet"
16           href="https://cdnjs.cloudflare.com/ajax/libs/codemirror/5.58.1/codemirror.css">
17
18     <!-- Core theme CSS (includes Bootstrap)-->
19     <link href="css/styles.css"
20           rel="stylesheet" >
21
22     <link rel="stylesheet"
23           href="https://cdn.jsdelivr.net/npm/bootswatch@4.5.2/dist/lux/bootstrap.min.css"
24           integrity="sha384-9+PGKSqjRdkeAU7Eu4nkJU8RfaH8ace8HGXnkiKMP9I9Te0GJ4/km3L1Z8tXigpG"
25           crossorigin="anonymous">
26
27     <script
28       src="https://cdnjs.cloudflare.com/ajax/libs/codemirror/5.58.1/codemirror.js"></script>
29
30     <script>
31       function reply_click(clicked_object) {
32         let sql = clicked_object.getAttribute('data-sql');
33         editor.setValue(sql);
34       }
35     </script>
36
37   </head>
38
39   <body>
40     You, 12 hours ago • Edited part1.1.html, inputted values into buttons...
```

4- Each question should have its question number and any sub-part numbers included in the button; Make sure you link all HTML files together in the upper right menu and the current page is shown in bold.



CA2: DATA MANIPULATION & VALIDATION

This is Part1.2

1.2.1

1.2.2

1.2.3

1.2.4

1.2.5

1.2.6

1.2.7

1.2.8

1.2.9

1.2.10

1 TEXT

EXECUTE

Browse... No file selected.

Results will be displayed here

CA2: DATA MANIPULATION & VALIDATION

This is Part1.1

1.3.1

1.3.2

1.3.3

1.3.4

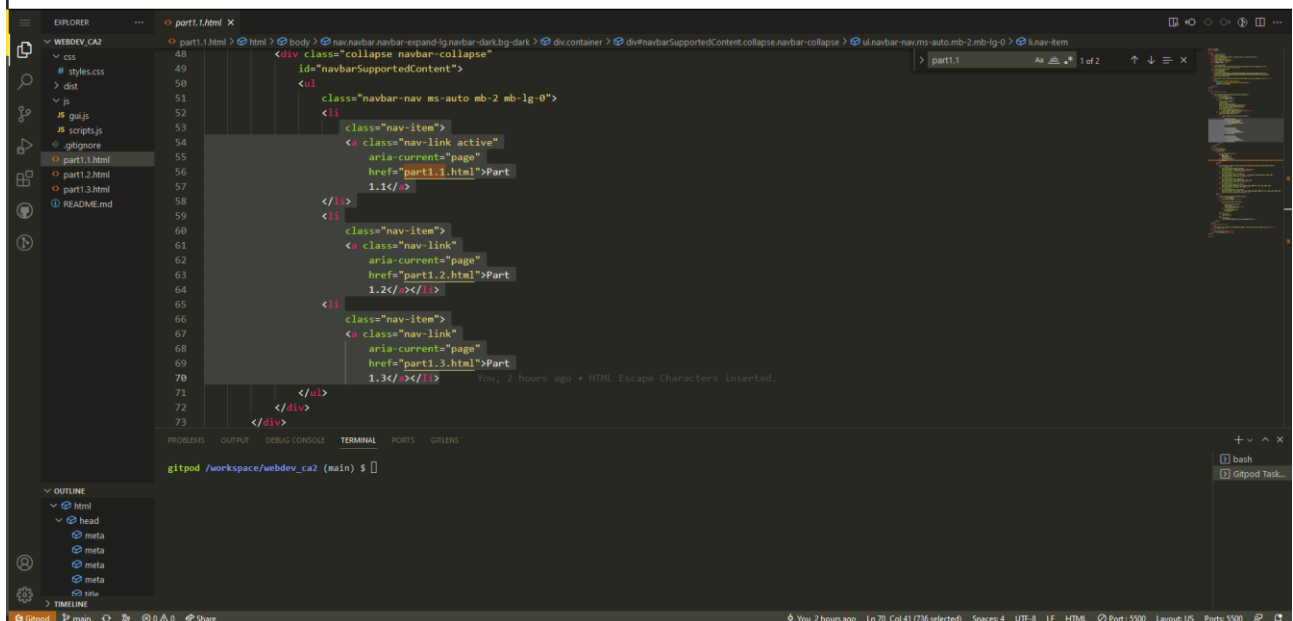
1.3.5

1 TEXT

EXECUTE

Browse... No file selected.

Results will be displayed here



- 5- Each query should have a green **Execute** button that executes each query and renders the results in the destination `<div>`:

WEBDEV CA2

PART 1.1PART 1.2PART 1.3

CA2: DATA MANIPULATION & VALIDATION

This is Part1.1

1.1.1

1.1.2

1.1.3

1.1.4

1.1.5

1 SELECT * FROM departments LIMIT 100;

EXECUTE

Browse...

employees.db

| DEPT_ID | DEPT_NAME |
|---------|--------------------|
| 1 | Marketing |
| 2 | Finance |
| 3 | Human Resources |
| 4 | Production |
| 5 | Development |
| 6 | Quality Management |
| 7 | Sales |
| 8 | Research |
| 9 | Customer Service |

- 6- Make sure you use HTML Escape Characters when putting SQL commands inside data-SQL attribute.**

REFERENCES

- 1- <https://mateam.net/>. (n.d.). *HTML Escape Characters: Complete List of HTML Entities*. [online] Available at: <https://mateam.net/html-escape-characters/>.
- 2- rocketvalidator.com. (n.d.). *How to fix: The 'type' attribute is unnecessary for JavaScript resources*. [online] Available at: <https://rocketvalidator.com/html-validation/the-type-attribute-is-unnecessary-for-javascript-resources> [Accessed 2 Dec. 2022].
- 3- Anon, (n.d.). *'a SQL' or 'an SQL'? | The ORACLE-BASE Blog*. [online] Available at: <https://oracle-base.com/blog/2015/01/02/a-sql-or-an-sql/> [Accessed 2 Dec. 2022].
- 4- docs.oracle.com. (n.d.). *Database Concepts*. [online] Available at: <https://docs.oracle.com/database/121/CNCPT/sqlangu.htm#CNCPT116> [Accessed 2 Dec. 2022].
- 5- www.bootstrapcdn.com. (n.d.). *Bootstrap*. [online] Available at: <https://www.bootstrapcdn.com/bootstrap/>.
- 6- www.w3schools.com. (n.d.). *Bootstrap 5 Tutorial*. [online] Available at: <https://www.w3schools.com/bootstrap5/>.
- 7- [W3schools.com](https://www.w3schools.com/). (2019). *HTML id*. [online] Available at: https://www.w3schools.com/html/html_id.asp.