






# Overview

The following is the run book for ingesting, transforming and then performing the analysis. You will need to run this on the AWS machine that is configured properly with access to the data that is supplied from Learning Emergence Partners (LJP).


The information about the Anaconda environment is located in this GitHub Repository - [https://github.com/RoryIAngus/CIC-Visualisation/tree/master/2\\_Environment](https://github.com/RoryIAngus/CIC-Visualisation/tree/master/2_Environment). This code is written in the base environment that is using a call to the MongoDB Environment, both are running using the commands found in the environment start-up script - [https://github.com/RoryIAngus/CIC-Visualisation/blob/master/2\\_Environment/startEnv-Copy\\_from\\_root.sh](https://github.com/RoryIAngus/CIC-Visualisation/blob/master/2_Environment/startEnv-Copy_from_root.sh).

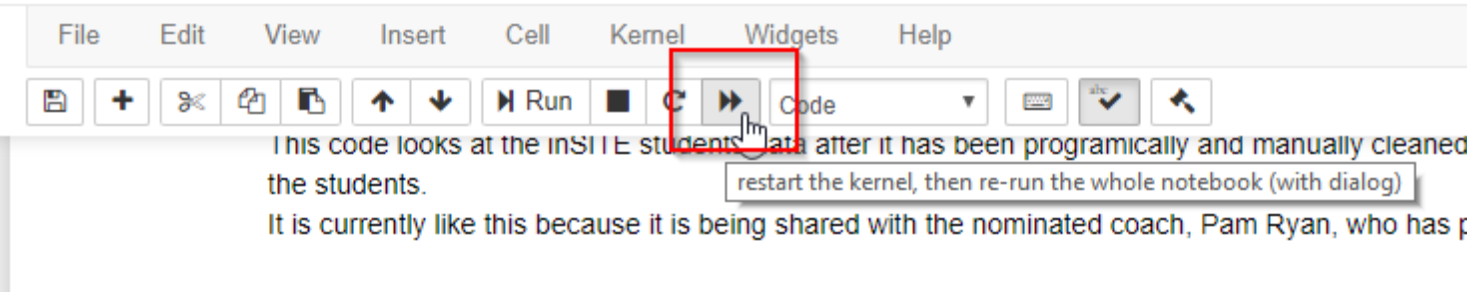
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# Instructions

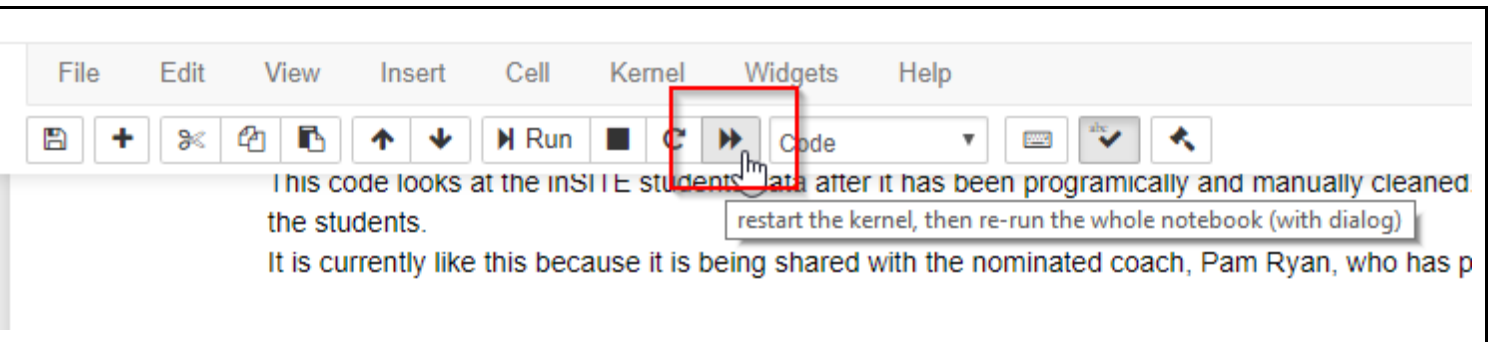
Data Extraction	
Get the data	<p>The data currently needs to be manually extracted from the LJP by a technician. They have a script that contains SQL and instructions to generate four JSON files. A summary version of their document can be read by contacting LJP.</p> <p>It is worth noting that the document also functions as a data dictionary.</p>
Request Data Extract	<p>The long form version of the above document has been provided to LJP and they have agreed that the SQL extraction scripts will be run on request.</p>
Place the Data	<p>At the moment the data is stored on an AWS Unix machine, which also hosts a standalone MongoDB environment and an Anaconda setup running Python 3. These instructions will only work if you have localhost redirection working to the remote environment.</p> <p>Place the files that are received here. Note their file names.</p> <div> <input type="checkbox"/>  190328_052400_LE_LivePlatform_ClaraUsersGroups.json           <input type="checkbox"/>  190328_052400_LE_LivePlatform_IndividualResults.json           <input type="checkbox"/>  190328_052400_LE_LivePlatform_ListOfUsers.json           <input type="checkbox"/>  190328_052400_LE_LivePlatform_ListOfUsersPAM.json           <input type="checkbox"/>  190328_052400_LE_LivePlatform_UsersCoachRelationship.json       </div>

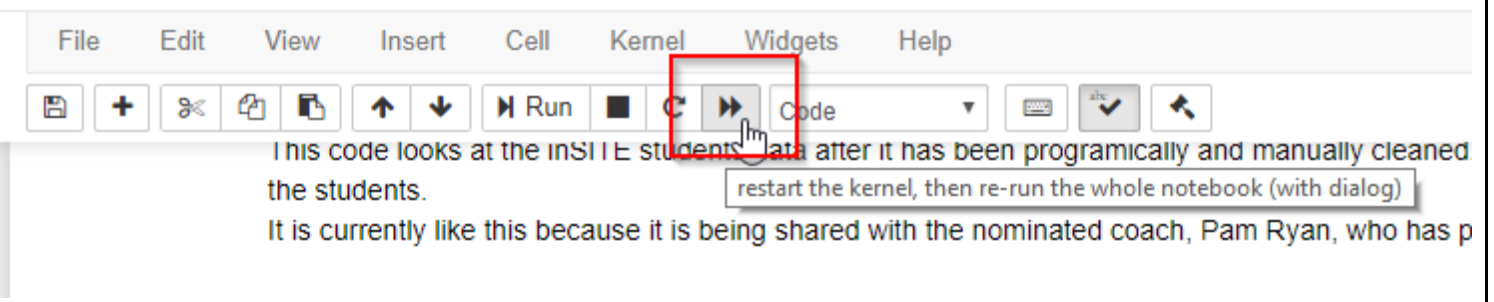
<h2>Script 01 – Load Results</h2>	
<p>Open the first script</p>	<p>01_CLARA_to_MongoDB_RealData_ClaraResults_SSODataModel.ipynb</p> <p>This is currently located in <a href="https://github.com/RoryIAngus/CIC-Visualisation/tree/master/3_Code">https://github.com/RoryIAngus/CIC-Visualisation/tree/master/3_Code</a></p>  <p>The screenshot shows the JupyterLab interface with the 'Files' tab selected. The breadcrumb path is '/ RoryWorking / Use_Case_inSITE_Evaluation / DataProcessing'. The file list contains the following items:</p> <ul style="list-style-type: none"> <li>..</li> <li>archive</li> <li>01_CLARA_to_MongoDB_RealData_ClaraResults_SSODataModel.ipynb (highlighted)</li> <li>02_CLARA_to_MongoDB_RealData_CoachingRelationship_SSODataModel.ipynb</li> <li>03_CLARA_to_MongoDB_RealData_Users_SSODataModel.ipynb</li> <li>04_CLARA_to_MongoDB_RealData_UserGroup_SSODataModel.ipynb</li> <li>05_MongoDB_to_CSV_RealData_ClaraResults_SSODataModel_CoachingandGroups.ipynb</li> </ul>
<p>Description</p>	<p>This code reads the individual CLARA results and loads them into the MongoDB. The results are one per survey and linked to the journey and the user.</p> <p>At the moment the code drops the entire table and reloads it, the code is not configured to run incrementally at the moment. The biggest change will be changing the variable <b>first_run</b> to be <b>False</b> and ensuring the data is correct. I think it will work after that.</p>

Change the variable that contains the file location	<pre># the file to read. This needs to be manually updated readLoc = "~/datasets/CLARA/190328_052400_LE_LivePlatform_IndividualResults.json" # if true the code outputs to the notebook a whole of diagnostic data that is helpful when v verbose = False # first run will truncate the target database and reload it from scratch. Once delta updates first_run = True</pre>
Restart and rerun the kernel	 <p>This code looks at the INSITE students data after it has been programically and manually cleaned the students.</p> <p>It is currently like this because it is being shared with the nominated coach, Pam Ryan, who has p</p>
Click Restart and Run All Cells	<p>Restart kernel and re-run the whole notebook? <span>×</span></p> <p>Are you sure you want to restart the current kernel and re-execute the whole notebook? All variables and outputs will be lost.</p> <p>Continue Running <b>Restart and Run All Cells</b></p> <p>Note: This step will not be shown again, it is assumed that you can do this without prompting.</p>
Ensure that it finishes	Check MongoDB to make sure the data has loaded into CLARA.raw_data_user_results

<h2>Script 02 – Load Coach Relationships</h2>	
<p>Open the second script</p>	<p>02_CLARA_to_MongoDB_RealData_CoachingRelationship_SSODataModel.ipynb</p> <p>This is currently located in <a href="https://github.com/RoryLangus/CIC-Visualisation/tree/master/3_Code">https://github.com/RoryLangus/CIC-Visualisation/tree/master/3_Code</a></p>
<p>Description</p>	<p>This code reads the intersection table between coach and coachee and loads them into the MongoDB. The results are one per line per relationship with a start and end date if valid. This means that there could be duplicates of you ignore the date aspect of the record.</p> <p>At the moment the code drops the entire table and reloads it, the code is not configured to run incrementally at the moment. The biggest change will be changing the variable <b>first_run</b> to be <b>False</b> and ensuring the data is correct. I think it will work after that.</p>
<p>Change the variable that contains the file location</p>	<pre># the file to read. This needs to be manually updated readLoc = "~/datasets/CLARA/190328_052400_LE_LivePlatform_UsersCoachRelationship.json" # if true the code outputs to the notebook a whole of diagnostic data that is helpful when verbose = False # first run will truncate the target database and reload it from scratch. Once delta update first_run = True</pre>
<p>Restart and rerun the kernel</p>	 <p>This code looks at the INSEE students data after it has been programically and manually cleaned the students.</p> <p>It is currently like this because it is being shared with the nominated coach, Pam Ryan, who has p</p>

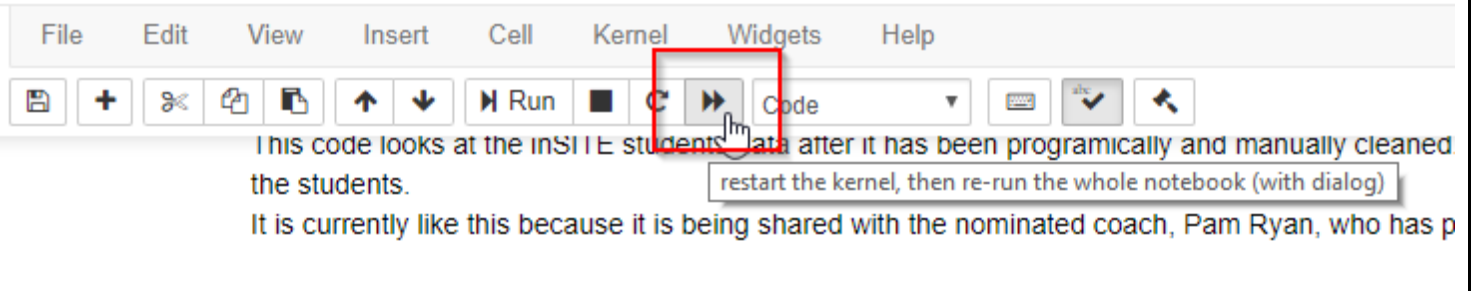
Ensure that it finishes	Check MongoDB to make sure the data has loaded into CLARA.raw_data_coach_coachee
<b>Script 03 – Load Users</b>	
Open the Third script	03_CLARA_to_MongoDB_RealData_Users_SSODataModel.ipynb  This is currently located in <a href="https://github.com/RoryIAngus/CIC-Visualisation/tree/master/3_Code">https://github.com/RoryIAngus/CIC-Visualisation/tree/master/3_Code</a>
Description	<p>This code reads the individual users and their key <b>ID</b> fields that are used by the LJP and loads them into the MongoDB. The system uses two types of ID's, one being a large random hash type string the other being an incremental integer.</p> <p>At the moment the code drops the entire table and reloads it, the code is not configured to run incrementally at the moment. The biggest change will be changing the variable <b>first_run</b> to be <b>False</b> and ensuring the data is correct. I think it will work after that.</p>
Change the variable that contains the file location	<pre># the file to read. This needs to be manually updated readLoc = "~/datasets/CLARA/190328_052400_LE_LivePlatform_ListOfUsers.json" readLocPam = "~/datasets/CLARA/190328_052400_LE_LivePlatform_ListOfUsersPAM.json" # if true the code outputs to the notebook a whole of diagnostic data that is helpful when w verbose = True # first run will truncate the target database and reload it from scratch. Once delta updates first_run = True</pre> <p>The data in this file <b>..._LivePlatform_ListOfUsersPAM.json</b> contains a single record for Pam Ryan and does not need to be refreshed. It is included as this user is not part of the UTS organisation, but she is linked to UTS users as a coach. This is due to migration issues and cannot be resolved without creating a new user in UTS for Pam and then linking those students to her as the coach and having the dates manually set back (this is just easier to do). It is added to ensure that students linked to her as a coach can be selected. If any other users are like this, then LEP needs to be contacted to help resolve the issue.</p>

Restart and rerun the kernel	 <p>This code looks at the INSEE students data after it has been programically and manually cleaned the students. It is currently like this because it is being shared with the nominated coach, Pam Ryan, who has p</p>
Ensure that it finishes	Check MongoDB to make sure the data has loaded into CLARA.raw_data_claraUsers
Script 04 – Load Groups	
Open the Fourth script	<p>04_CLARA_to_MongoDB_RealData_UserGroup_SSODataModel.ipynb</p> <p>This is currently located in <a href="https://github.com/RoryAngus/CIC-Visualisation/tree/master/3_Code">https://github.com/RoryAngus/CIC-Visualisation/tree/master/3_Code</a></p>
Description	<p>This code reads the group/user intersection table that identifies which groups users are in. It is also date and time bound with a start and end date. The code does not currently take this into account.</p> <p>At the moment the code drops the entire table and reloads it, the code is not configured to run incrementally at the moment. The biggest change will be changing the variable <b>first_run</b> to be <b>False</b> and ensuring the data is correct. I think it will work after that.</p>
Change the variable that contains the file location	<pre>readLoc = "~/datasets/CLARA/190328_052400_LE_LivePlatform_ClaraUsersGroups.json" # if true the code outputs to the notebook a whole of diagnostic data that is helpful when verbose = False # first run will truncate the target database and reload it from scratch. Once delta update first_run = True</pre>

Restart and rerun the kernel	 <p>This code looks at the INSIDE students' data after it has been programically and manually cleaned the students. It is currently like this because it is being shared with the nominated coach, Pam Ryan, who has p</p>
Ensure that it finishes	Check MongoDB to make sure the data has loaded into CLARA.raw_data_group_user
Script 05 – Create Journeys	
Open the Fifth script	<p>05_Raw_Data_Combine_Diagnose_Measure_to_Single_Row.ipynb</p> <p>This is currently located in <a href="https://github.com/RoryIAngus/CIC-Visualisation/tree/master/3_Code">https://github.com/RoryIAngus/CIC-Visualisation/tree/master/3_Code</a></p>
Description	<p>This code loads the results data from Mongo and processes it to ensure that the correct elements are brought together. The end result is a single line that contains a journey, which has the results from the Diagnose and Measure survey.</p> <p>It is important to note that my understanding of the data model has changed since the last code was written. The journey can have many steps and Clara survey results linked to it. In some instances, I have seen up to 8 different Clara results with a single journey. Checking with Shaofu, this is apparently normal, and so I am having to adjust this code to automate the gathering of a single set of data.</p> <p>That is one user -&gt; one journey -&gt; one Clara result for the Diagnose step -&gt; (optional) one Clara result for the Measure step</p> <p>If there are more than two Clara results for step, then a decision needs to be made about which one to keep. I am</p>



	<p>not sure what that should be. I am guessing the first one for Diagnose and the latest one for Measure. This needs to be verified and certainly, it needs to be flagged in the reporting (new field).</p> <p>Another new field is the duration that the tests took as well as the amount of elapsed time between the two tests.</p>
These are the collections that the code is using	<p>Read - raw_data_user_results</p> <p>Write - raw_data_combined_user_results</p>
Check for errors	<p>In the section - Multiple Surveys Error Reporting</p> <p>If the following message appears there is an error with the data that needs to be investigated. The data in question is presented after the error message.</p> <p>There is some data that you need to look at to work out which records to keep. The data in question is stored in the data frame called dfError and is presented here for ease.</p>
Script 06 – Cleaning Export	
Open the Sixth script	<p>06_MongoDB_to_CSV_RealData_ClaraResults_SSODataModel_CoachingandGroups.ipynb</p> <p>This is currently located in <a href="https://github.com/RoryIAngus/CIC-Visualisation/tree/master/3_Code">https://github.com/RoryIAngus/CIC-Visualisation/tree/master/3_Code</a></p>
Description	<p>This code reads the data from the MongoDB and uses it to interact with the user to create and then save a CSV file of data.</p> <p>This is because there is a manual cleaning step that needs to happen and it is easier to do in Excel.</p>
These are the collections	Read:

that the code is using	<pre>coachDataCollection = db.raw_data_coach_coachee groupDataCollection = db.raw_data_group_user resultsDataCollection = db.raw_data_combined_user_results usersDataCollection = db.raw_data_claraUsers</pre> <p>Write: A CSV output file that needs to be used in the next step after being cleaned.</p>
Restart and rerun the kernel	 <p>The screenshot shows the Jupyter Notebook interface. The top menu bar includes File, Edit, View, Insert, Cell, Kernel, Widgets, and Help. Below the menu bar is a toolbar with various icons. The 'Restart and Run All' button (represented by a circular arrow icon) is highlighted with a red box. A tooltip is visible over this button, stating: 'restart the kernel, then re-run the whole notebook (with dialog)'. The notebook content shows a code cell with the following text:</p> <pre>This code looks at the INSEE students data after it has been programically and manually cleaned the students. It is currently like this because it is being shared with the nominated coach, Pam Ryan, who has p</pre>
Scroll to the end of the notebook	In the last cell, there is an interactive component.

```
In [34]: ▶ print("\n" * 3)
# This file is used by the next step of the analysis
interactGroupId(GroupIdSelect, groupId=wGroupId, coachName=wCoachNames)

print("\n" * 3)
```

Select Group

Select Coach

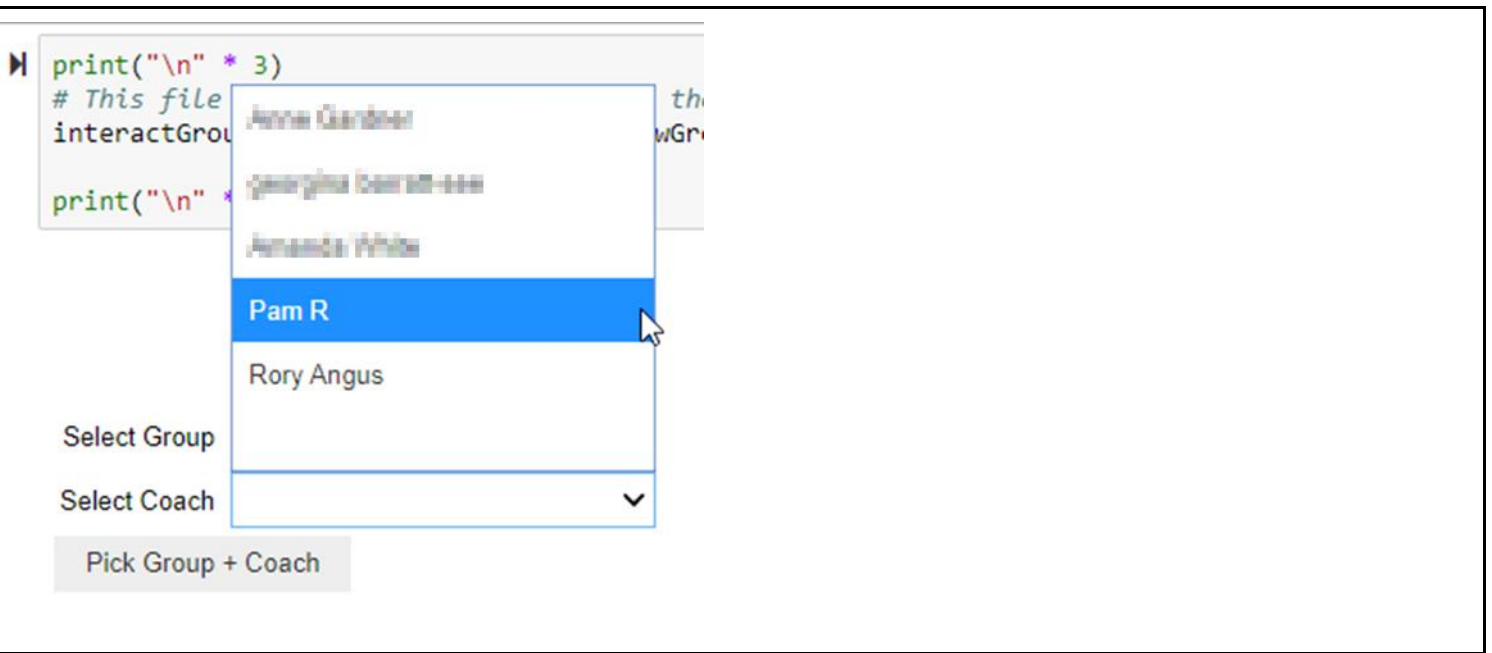

Pick Group + Coach

## Select a Group

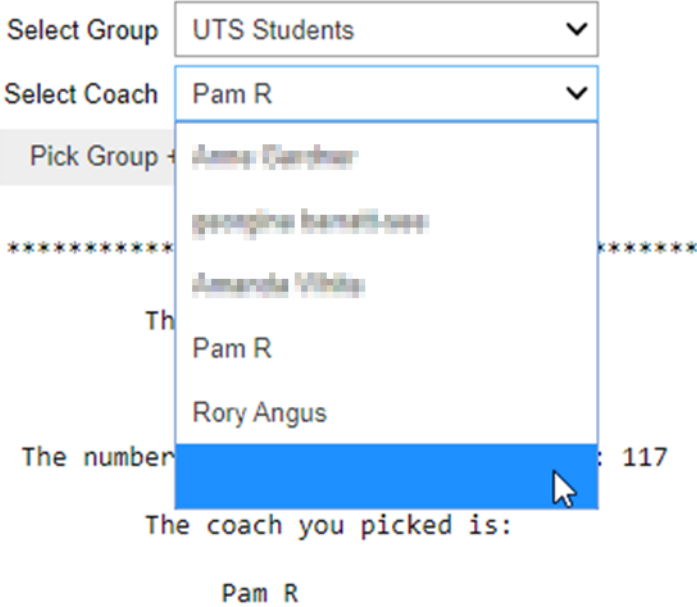
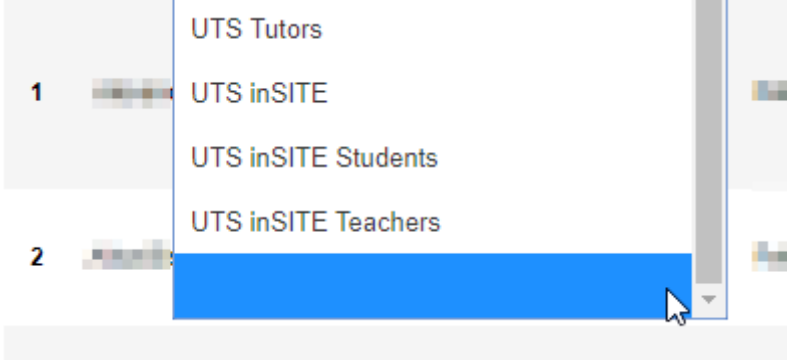
The screenshot shows a software interface with a dropdown menu for selecting a group. The menu is open, displaying a list of groups. The 'Select Group' dropdown is highlighted in blue. Below it is a 'Select Coach' dropdown.

View Insert

groupId = np  
# define the  
wGroupId = v  
options=  
if verbose:  
print(gr  
# add a blan  
coachNames =  
# define the  
wCoachNames  
options=  
if verbose:  
print(cc  
# set the no  
interactGrou  
print("\n" \*  
# This file  
interactGrou  
print("\n" \*  
48321 Engineering Mechanics  
B0001 - Pilot for Students at Risk of Failing  
Backup Users  
Business  
D0001 - 2019 Trial Design Studies Tutors  
DAB  
FEIT - Use this one  
Health  
Hooo1 - Midwifery Staff Trial 2019  
Individual Student  
UTS CLARA Leadership Group  
UTS Event 31/7  
UTS Students  
UTS Subject Coordinators  
UTS Teachers  
UTS Tutors  
UTS inSITE  
UTS inSITE Students  
UTS inSITE Teachers  
Select Group  
Select Coach

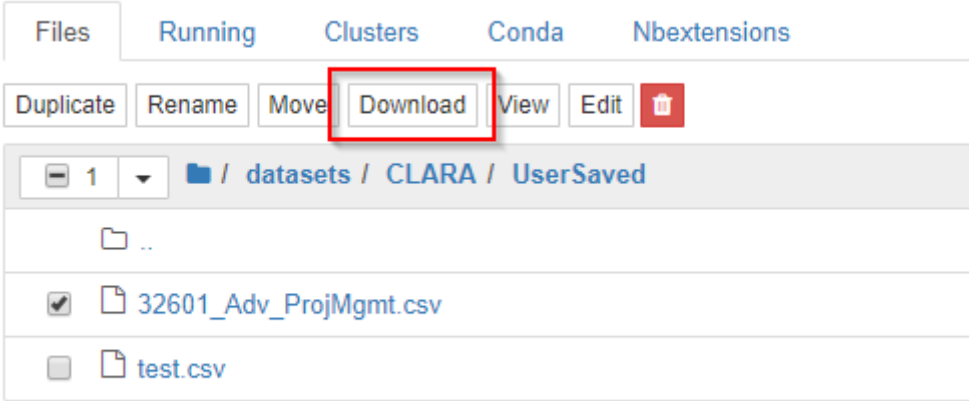
Select a Coach	 <pre>print("\n" * 3) # This file interactGroup print("\n" * 3)</pre> <p>Select Group</p> <p>Select Coach</p> <p>Pick Group + Coach</p>
Click on the Pick Group + Coach Button	 <p>Select Group UTS inSITE</p> <p>Select Coach Pam R</p> <p>Pick Group + Coach</p>
	Read the messages to confirm the expected output which determines the number of records for each element (Group and Coach) and the intersection of those two and displays the information along with a sample of the data

	<pre> *****  The group you picked is:      UTS inSITE  The number of members in the group is: 18  The coach you picked is:      Pam R  The number of members in the coach selection is: 15  This results in 15 people selected  *****  The 15 people selected have 16 corresponding CLARA Journey results  A sample of the data is:                                  userEmail  completedSecondSurvey  journeyTitle  journeyGoal  surveyOneDuration  surveyTwoDuration  surveyBetween ----- [1] 20200123@unimelb.edu.au              TRUE  Learning:  Learning  00:00:00  00:00:00  00:00:00 [2] 20200123@unimelb.edu.au              TRUE  Learning:  Learning  00:00:00  00:00:00  00:00:00 [3] 20200123@unimelb.edu.au              TRUE  Learning:  Learning  00:00:00  00:00:00  00:00:00 [4] 20200123@unimelb.edu.au              TRUE  Learning:  Learning  00:00:00  00:00:00  00:00:00 [5] 20200123@unimelb.edu.au              TRUE  Learning:  Learning  00:00:00  00:00:00  00:00:00 [6] 20200123@unimelb.edu.au              TRUE  Learning:  Learning  00:00:00  00:00:00  00:00:00 [7] 20200123@unimelb.edu.au              TRUE  Learning:  Learning  00:00:00  00:00:00  00:00:00 [8] 20200123@unimelb.edu.au              TRUE  Learning:  Learning  00:00:00  00:00:00  00:00:00 [9] 20200123@unimelb.edu.au              TRUE  Learning:  Learning  00:00:00  00:00:00  00:00:00 [10] 20200123@unimelb.edu.au             TRUE  Learning:  Learning  00:00:00  00:00:00  00:00:00 [11] 20200123@unimelb.edu.au             TRUE  Learning:  Learning  00:00:00  00:00:00  00:00:00 [12] 20200123@unimelb.edu.au             TRUE  Learning:  Learning  00:00:00  00:00:00  00:00:00 [13] 20200123@unimelb.edu.au             TRUE  Learning:  Learning  00:00:00  00:00:00  00:00:00 [14] 20200123@unimelb.edu.au             TRUE  Learning:  Learning  00:00:00  00:00:00  00:00:00 [15] 20200123@unimelb.edu.au             TRUE  Learning:  Learning  00:00:00  00:00:00  00:00:00 </pre>
Just select a Group	Select the blank line for the Coach and then select the group and click the button

	 <p>Select Group UTS Students ▼</p> <p>Select Coach Pam R ▼</p> <p>Pick Group</p> <p>*****</p> <p>Th</p> <p>Pam R</p> <p>Rory Angus</p> <p>The number : 117</p> <p>The coach you picked is:</p> <p>Pam R</p>
The same goes when just selecting a Coach	 <p>1 UTS Tutors</p> <p>1 UTS inSITE</p> <p>2 UTS inSITE Students</p> <p>2 UTS inSITE Teachers</p>
Note the messages	This explains the outcome of the different selections that have been made. Note that not every user has CLARA results and some may have more than one. That is why in this example there are only 31 records.

	<pre> *****  The group you picked is:  32601 Advanced Project Management  The number of members in the group is: 77  You did not select a coach  This results in 77 people selected  *****  The 77 people selected have 31 corresponding CLARA Journey results </pre>
Type in the name of the file and click Save File	<p>Once you are happy with the selection, save the file.</p> <p>Specify the name of the file to be saved...</p> <p>Type the: <input type="text" value="32601_Adv_ProjMgmt"/></p> <p>Save File</p> <pre> #####  Congrats!  File of 31 records succesfully written to: ~/datasets/CLARA/UserSaved/32601_Adv_ProjMgmt.csv  ##### </pre>



<p>Open the Saved File from the previous step and download the file</p>	<p>Take note of the location of the file from the previous step.</p> <p>~/datasets/CLARA/UserSaved/32601_Adv_ProjMgmt.csv</p> 
<p>Open the file in Excel or your spreadsheet of choice.</p>	<p>This is where you will need to clean the data. The best outcome is to have a single journey for each student and that journey to have a diagnose and measure result. It may be required to work with the individual tutors and lecturers at this point.</p> <ol style="list-style-type: none"> <li>1. Delete the journeys that do not have Diagnose results.</li> <li>2. Check to see if students have more than one journey. <ol style="list-style-type: none"> <li>a. If they do, it could be a test journey or it could be that they have done the Measure step as part of a new journey so it has ended up in the diagnose section</li> <li>b. Copy the results from Diagnose to Measure if that is the case, remember to look at the dates and copy those as well as calculate the durations, Completed Second Survey flag etc.</li> <li>c. Remove unneeded journeys</li> </ol> </li> <li>3. Check to see if the results make sense. In some cases all the values are 1, this is clearly not a valid survey.</li> <li>4. Look at survey duration, did it take them a few minutes to answer 80 questions. This is also a good</li> </ol>

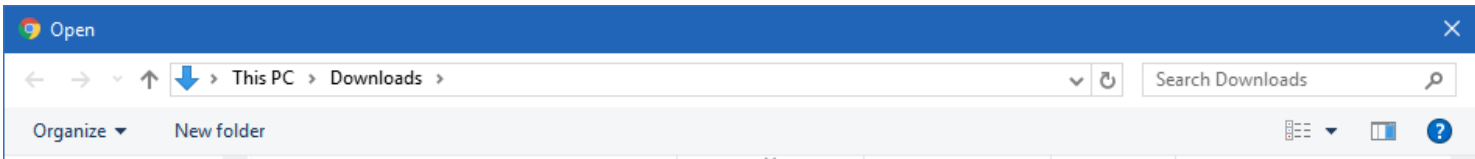
Save the CSV and upload it to the platform



indication of the survey results being compromised

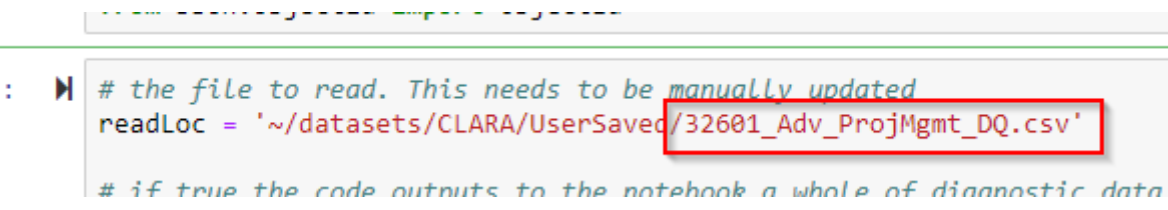
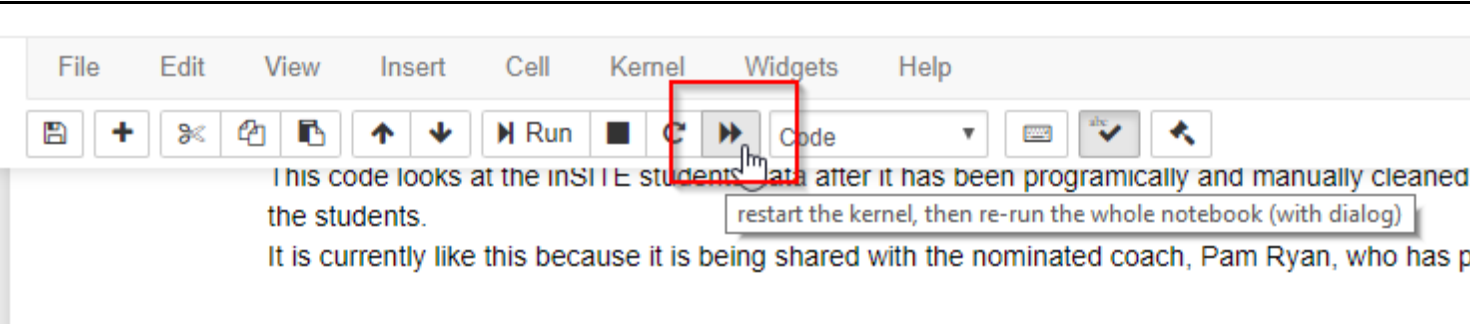
- a. It is important to note that there is a bug in the platform that allows surveys to be completed in a very short amount of time. Shaofu is investigating this.

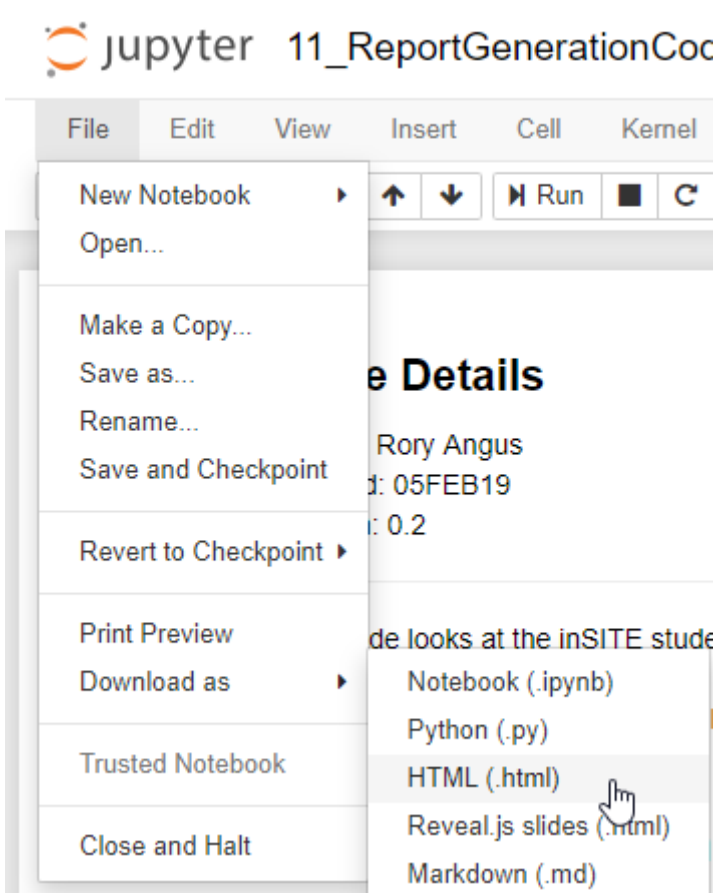
5. Examine the duration between the Diagnose and Measure survey.

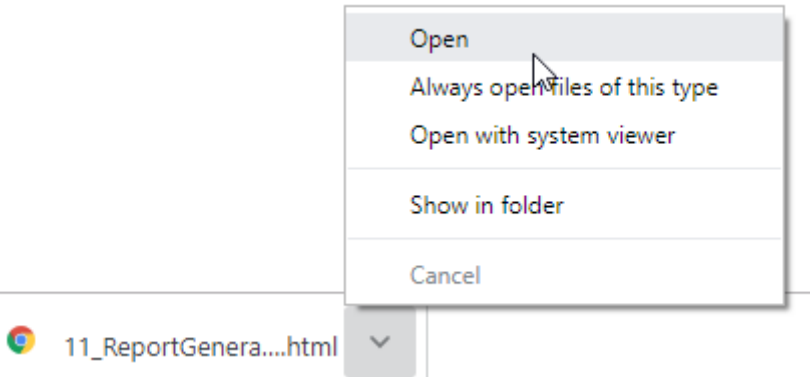
- a. Was it too short for it to be a valid measure of change?

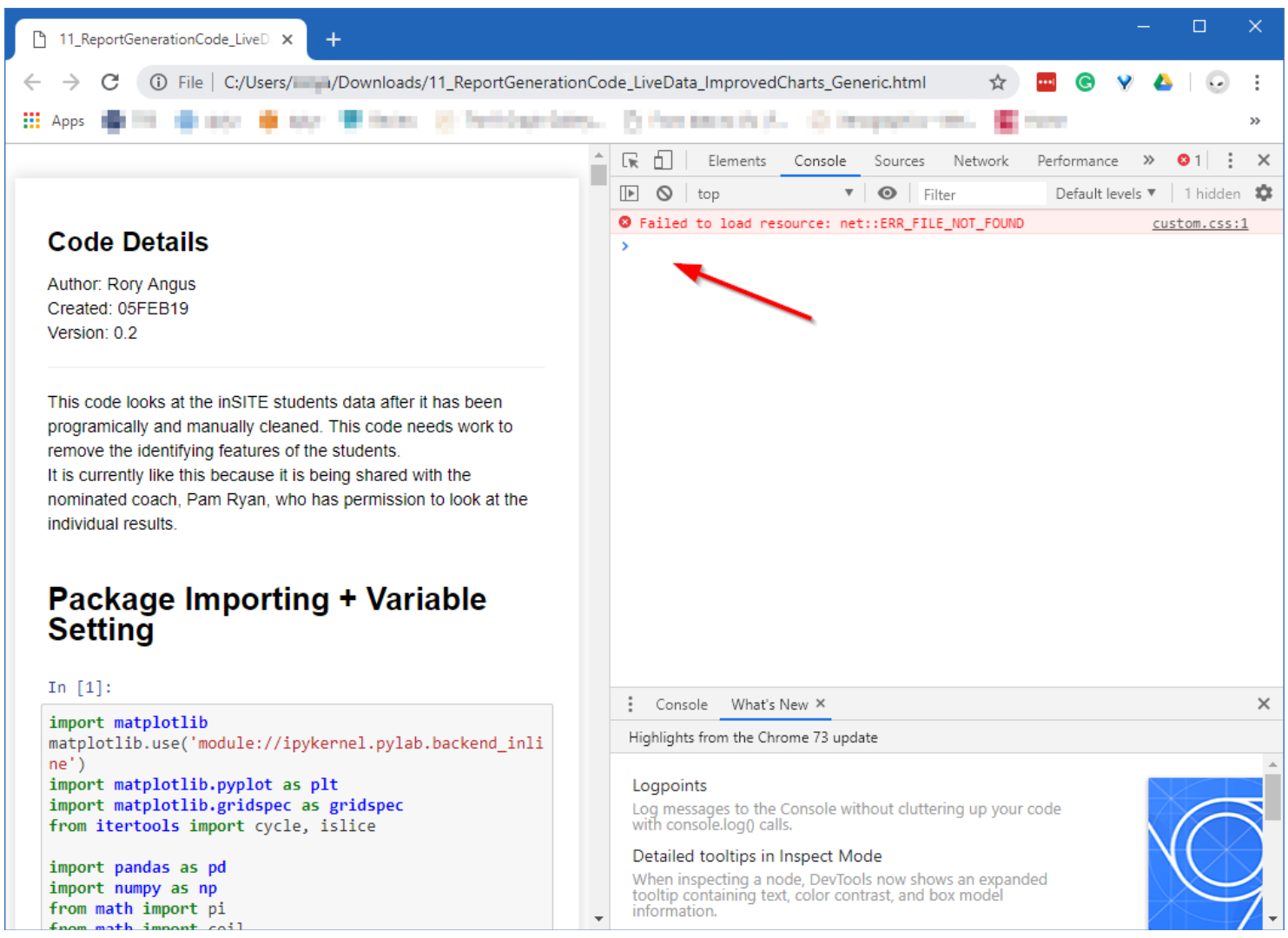


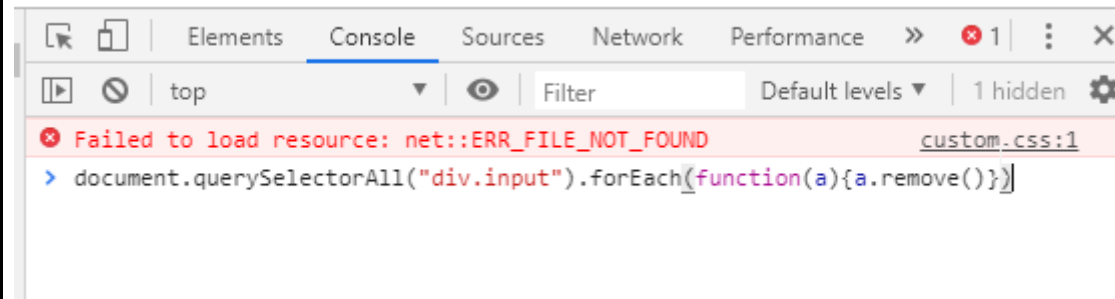
<p>Add a suffix so that it doesn't overwrite the original file</p>	 <p>The screenshot shows a file upload interface. At the top, there are buttons: Duplicate, Rename, Move, Download, View, Edit, and a trash icon. On the right, there is an 'Upload' button highlighted with a red box, and a 'New' dropdown menu. Below the buttons, the path is '/ datasets / CLARA / UserSaved'. A table lists files: '32601_Adv_ProjMgmt_DQ.csv' (selected), '..', '32601_Adv_ProjMgmt.csv', and 'test.csv'. The '32601_Adv_ProjMgmt_DQ.csv' file is highlighted in yellow. The 'Upload' button is also highlighted in blue.</p>
<p>Files ready to be used</p>	 <p>The screenshot shows a file list interface. The path is '/ datasets / CLARA / UserSaved'. A table lists files: '..', '32601_Adv_ProjMgmt.csv', '32601_Adv_ProjMgmt_DQ.csv', and 'test.csv'. The '32601_Adv_ProjMgmt_DQ.csv' file is highlighted in blue, indicating it is the most recent upload. The table columns are Name, Last Modified, and File size.</p>
<p>Script 11 – Create Visualisations</p>	
<p>Open the script file</p>	<p>11_ReportGenerationCode_LiveData_ImprovedCharts_Generic</p> <p>This is located here: <a href="https://github.com/RoryAngus/CIC-Visualisation/tree/master/3_Code">https://github.com/RoryAngus/CIC-Visualisation/tree/master/3_Code</a></p>
<p>Description</p>	<p>This code reads the data from the CSV File and uses it to create the visualisations of the data.</p>

<p>Change the readLoc variable to point to the new file.</p>	 <pre> :  # the file to read. This needs to be manually updated     readLoc = '~/datasets/CLARA/UserSaved/32601_Adv_ProjMgmt_DQ.csv'  # if true the code outputs to the notebook a whole of diagnostic data </pre>
<p>Restart and rerun the kernel</p>	 <p>This code looks at the INSEE students data after it has been programically and manually cleaned the students. It is currently like this because it is being shared with the nominated coach, Pam Ryan, who has p</p> <p>restart the kernel, then re-run the whole notebook (with dialog)</p>
<p>Export the results</p>	
	<p>The following will create a PDF of the charts etc, but will delete all of the code.</p> <p>This was adapted from <a href="https://stackoverflow.com/questions/34818723/export-notebook-to-pdf-without-code">https://stackoverflow.com/questions/34818723/export-notebook-to-pdf-without-code</a></p>
	<p>Run Jupyter notebook and download the notebook in the browser:</p> <p>File-&gt;Download as-&gt;HTML and you will get a HTML page with code and output.</p>

	 <p>The screenshot shows the Jupyter Notebook interface for a file named '11_ReportGenerationCoc'. The 'File' menu is open, displaying options such as 'New Notebook', 'Open...', 'Make a Copy...', 'Save as...', 'Rename...', 'Save and Checkpoint', 'Revert to Checkpoint', 'Print Preview', 'Download as', 'Trusted Notebook', and 'Close and Halt'. The 'Download as' option is selected, opening a submenu where 'HTML (.html)' is highlighted by a mouse cursor. Other options in the submenu include 'Notebook (.ipynb)', 'Python (.py)', 'Reveal.js slides (.html)', and 'Markdown (.md)'. The background of the notebook shows a slide titled 'Details' with text about 'Rory Angus' and '05FEB19'.</p>
Open the file	Open the exported HTML with browser

	
Open the console	Activate the browser developer console by pushing the key F12

	 <p><b>Code Details</b></p> <p>Author: Rory Angus Created: 05FEB19 Version: 0.2</p> <p>This code looks at the inSITE students data after it has been programically and manually cleaned. This code needs work to remove the identifying features of the students. It is currently like this because it is being shared with the nominated coach, Pam Ryan, who has permission to look at the individual results.</p> <p><b>Package Importing + Variable Setting</b></p> <pre>In [1]: import matplotlib matplotlib.use('module://ipykernel.pylab.backend_inlin ne') import matplotlib.pyplot as plt import matplotlib.gridspec as gridspec from itertools import cycle, islice  import pandas as pd import numpy as np from math import pi from math import ceil</pre> <p>Failed to load resource: net::ERR_FILE_NOT_FOUND custom.css:1</p>
Remove Code Content	<p>Run following command in the console:</p> <pre>document.querySelectorAll("div.input").forEach(function(a){a.remove()})</pre>

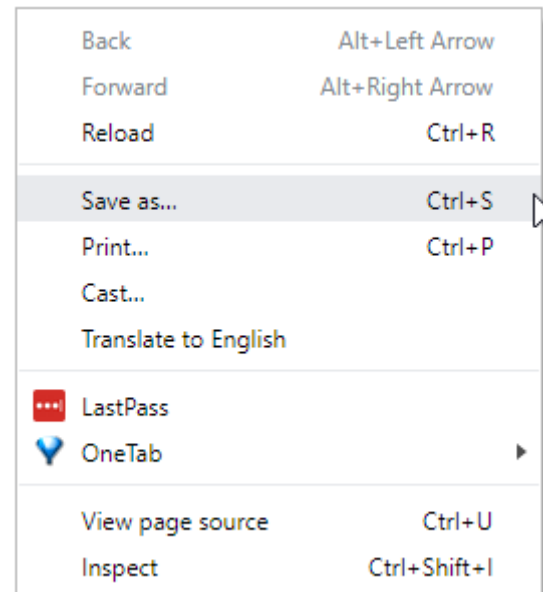


Press enter to execute.

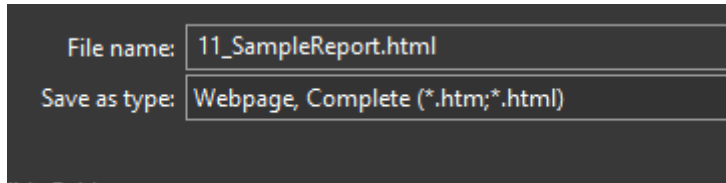
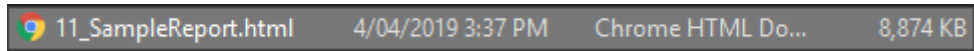
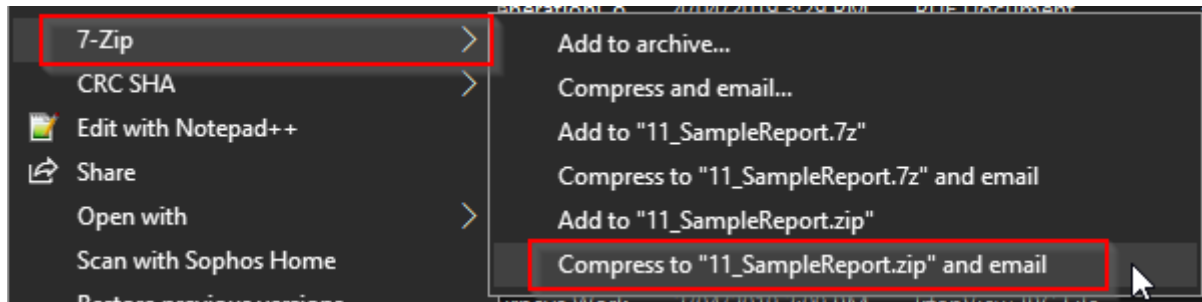
The code removes all input div DOM which basically contains the code sections from the workbook. It leaves behind the data and charts and Markup boxes.

Save the new file

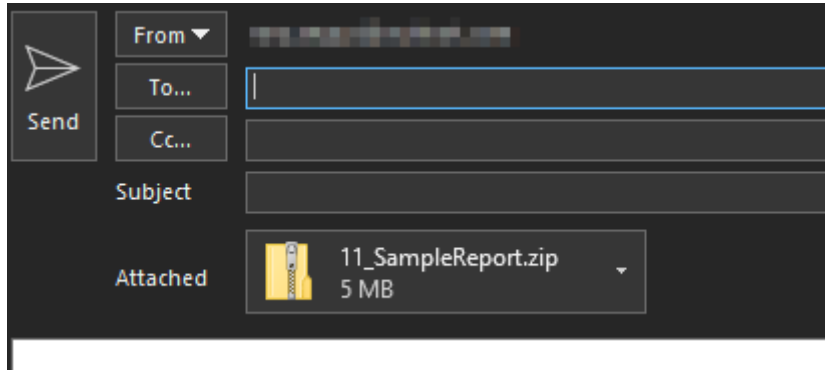
Click the right mouse button and chose "Save As..."





Save as type	Select Webpage, Complete
Specify the File name	
Open the file	<p>Open the folder where the file was saved and retrieve the file</p> 
Compression	<p>You may want to Zip it to email it as it is a HTML file and it is quite large.</p> 

Email attachment



The image shows a dark-themed email composition window. On the left is a 'Send' button with a paper plane icon. To its right are input fields for 'From' (with a dropdown arrow), 'To...' (with a blue cursor), 'Cc...', and 'Subject'. Below these is an 'Attached' section showing a yellow folder icon, the filename '11\_SampleReport.zip', and its size '5 MB'.