* **Data process:**

Step 1: Download the required data file.csv V1-V4;

Step2:

Explaination: Organise the data into one or more csv file. For example, data of V1 can be organised into 3 sheets: sheet 1 including columns(Time, Global\_anomaly, Northern\_anomaly, Southern\_anomaly) for annual chart. Sheet 2 including colunms(YY-MM, Global\_anomaly, Norhtern\_anomaly, Southern\_anomaly). Sheet 3 including colunms(Year, Northern\_anomaly)

Operation:

1. Open a new excel file;
2. Click ’Data’

--->’Get Data’ in the top left.

---> ’From text’

---> choose the target data

---> ’Get Data’

---choose ’Delimited’

----Start import at row ’1’

----file origin ’Macintosh’(maybe different for win, let’s see.

----’Next’

----Delimiters’Comma’

---Text qualifier ”

----Next

----Column data format ’General’

--- Where do you want to put the data’Existing sheet’ remember to click in a blank column.

1. Delet unnecessary column, such as duplicate of ’Time’ , Lower… and Upper…
2. Change column name.

Step 3: Repeat the above steps to make all related data into one sheet and save it as a csv file.

Step 4: import the csv file into database.

* **Use Chart.js with Mysql Database**

Step 1: Setup local server and connect to database

----Create **server folder** inside the project

----Create index.js inside **server folder**

----Setup local server inside the **server folder**: npm init -y

----npm i express

---- nodemon

---- cors

-----mysql

-----axios

----programm in the index.js

----nodemon index.js to start the app, and it will show in the localhost:port

Step 2: Use axios to get data from URL

Text

Description automatically generated

Step 3 It woks

Graphical user interface

Description automatically generated with low confidence

* **Tryed to depoy a simple react.js project to Google Cloud Platform successfully. But it charged me 0.01€. So let’s see if there is a better choice.**