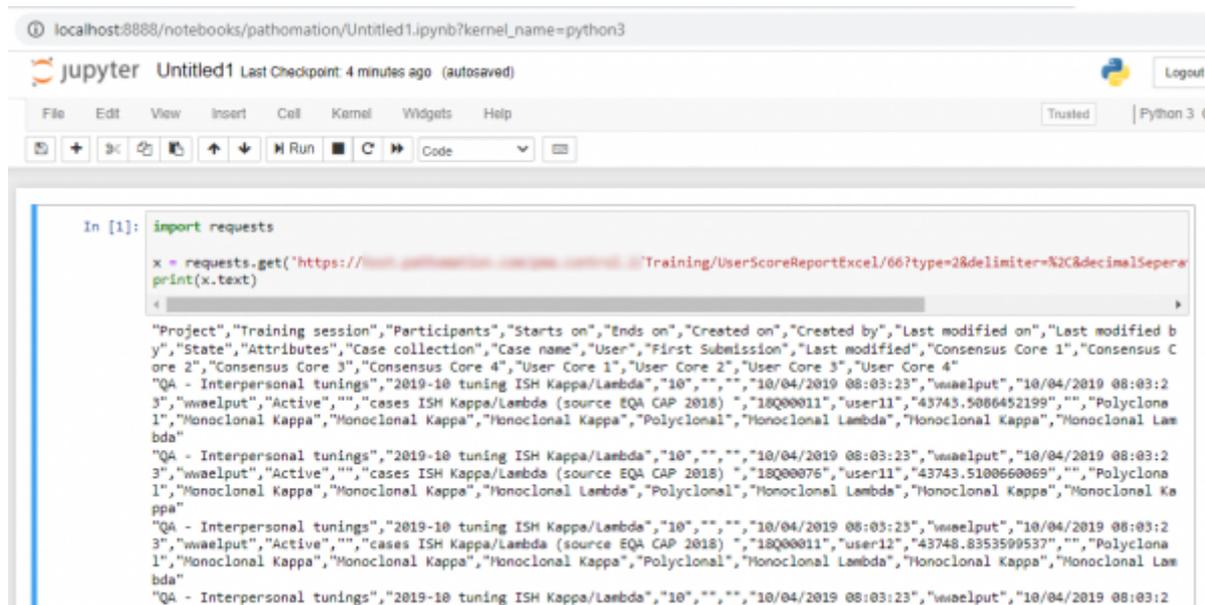


## Retrieving scoring results (automation)

For [data wrangling purposes](#), it is useful to automate the retrieve of a training session's scoring result.



```
In [1]: import requests

x = requests.get('https://pma.control/Training/UserScoreReportExcel/66?type=2&delimiter=%2C&decimalSepera
print(x.text)
```

```
<
"Project","Training session","Participants","Starts on","Ends on","Created on","Created by","Last modified b
y","State","Attributes","Case collection","Case name","User","First Submission","Last modified","Consensus Core 1","Consensus C
ore 2","Consensus Core 3","Consensus Core 4","User Core 1","User Core 2","User Core 3","User Core 4"
"QA - Interpersonal tunings","2019-10 tuning ISH Kappa/Lambda","10","","","10/04/2019 08:03:23","waelput","10/04/2019 08:03:2
3","waelput","Active","","cases ISH Kappa/Lambda (source EQA CAP 2018) ","18Q00011","user11","43743.5086452199","","Polyclona
l","Monoclonal Kappa","Monoclonal Kappa","Monoclonal Kappa","Polyclonal","Monoclonal Lambda","Monoclonal Kappa","Monoclonal Lam
bda"
"QA - Interpersonal tunings","2019-10 tuning ISH Kappa/Lambda","10","","","10/04/2019 08:03:23","waelput","10/04/2019 08:03:2
3","waelput","Active","","cases ISH Kappa/Lambda (source EQA CAP 2018) ","18Q00076","user11","43743.5100660065","","Polyclona
l","Monoclonal Kappa","Monoclonal Kappa","Monoclonal Kappa","Polyclonal","Monoclonal Lambda","Monoclonal Kappa","Monoclonal Ka
ppa"
"QA - Interpersonal tunings","2019-10 tuning ISH Kappa/Lambda","10","","","10/04/2019 08:03:23","waelput","10/04/2019 08:03:2
3","waelput","Active","","cases ISH Kappa/Lambda (source EQA CAP 2018) ","18Q00011","user12","43748.8353599537","","Polyclona
l","Monoclonal Kappa","Monoclonal Kappa","Monoclonal Kappa","Polyclonal","Monoclonal Lambda","Monoclonal Kappa","Monoclonal Lam
bda"
"QA - Interpersonal tunings","2019-10 tuning ISH Kappa/Lambda","10","","","10/04/2019 08:03:23","waelput","10/04/2019 08:03:2
```

The formal syntax is:

[https://server/pma.control/Training/UserScoreReportExcel/{TRAINING\\_SESSION\\_ID}/type={REPORT\\_TYPE}&sessionID={PMA\\_CORE\\_SESSION\\_ID}](https://server/pma.control/Training/UserScoreReportExcel/{TRAINING_SESSION_ID}/type={REPORT_TYPE}&sessionID={PMA_CORE_SESSION_ID})

For convenient parsing, we recommend setting REPORT\_TYPE to 2 (CSV, computer-readable, de-normalized).

Note that the above URL cannot be invoked automatically from within any programming environment. [PHP's file\\_get\\_contents\(\) method](#) e.g. does not work.

The call requires cookie to authenticate properly, because it is a view controller. The php function `file_get_contents()` does not use cookies as the server requests so the call fails. It only works if you have cookies set correctly in the browser via another tab or previous login to the pma.control.

For this to work properly via php you have to use cUrl with cookies enabled:

```
<?php
function file_get_contents_curl($url) {
    $ckfile = tempnam ("/tmp", "CURLCOOKIE");

    $ch = curl_init();

    curl_setopt($ch, CURLOPT_AUTOREFERER, TRUE);
    curl_setopt($ch, CURLOPT_HEADER, 0);
    curl_setopt($ch, CURLOPT_RETURNTRANSFER, 1);
    curl_setopt($ch, CURLOPT_URL, $url);
    curl_setopt($ch, CURLOPT_COOKIEJAR, $ckfile);
    curl_setopt($ch, CURLOPT_SSL_VERIFYHOST, 3);
```

```
curl_setopt($ch, CURLOPT_SSL_VERIFYPEER, FALSE);
curl_setopt($ch, CURLOPT_FOLLOWLOCATION, TRUE);

$data = curl_exec($ch);
curl_close($ch);

return $data;
}

// assume $sessionID already exists and contains a valid PMA.core SessionID
// build URL

$trainingsession = 66
$url =
"https://server/pma.control/Training/UserScoreReportExcel/" . $trainingsession
."?type=2&delimiter=%2C&decimalSeperator=.&sessionId=" . $sessionID;

// retrieve data
$data = file_get_contents_curl($url);
}
?>
```

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