**Requirement analysis and the result of the investigation of the project**

# Read Data from Hyper Files

### Connect to database (.hyper file) (Python)

*# Start Hyper*

**with** HyperProcess(telemetry**=**Telemetry**.**SEND\_USAGE\_DATA\_TO\_TABLEAU ) **as** hyper:

*# Connect to an existing .hyper file (CreateMode.NONE)*

**with** Connection(endpoint**=**hyper**.**endpoint, database**=**'mydb.hyper') **as** connection:

*# ... use the connection object to send SQL queries to read data*

## If there is a hyper file in the worksheet and we have access to the database then we can extract data using sql queries.

Problem:

-Where to find the hyper extract file---tableau live/extract

-Do I need to access the server--- yes

-Is the file encoded--yes

-How to extract the file data---need to check

Reference:

<https://help.tableau.com/current/api/hyper_api/en-us/docs/hyper_api_examples.html>

1. Tableau xml modification with tableau\_tools

-python--yes

-server--yes

According to project detail no

<https://github.com/bryantbhowell/tableau_tools>

1. Tableau SDK for data access and extraction

-server access

<https://help.tableau.com/current/api/sdk/en-us/help.htm#SDK/tableau_sdk_samples.htm>

4. *How To Create A Tableau Data Extract Using Python*

<https://www.doingdata.org/blog/how-to-create-a-tableau-data-extract-using-python>

5.Tableau RESTAPI

server can not access

<https://help.tableau.com/current/api/rest_api/en-us/REST/rest_api_requ.htm>

6.tableau document API python

Username

Server required

<https://github.com/tableau/document-api-python>

7.Tabtosql

After connecting with the data source instructions

<https://github.com/tableau/document-api-python>

8. Update packaged file using python

<https://gist.github.com/jasonlopez01/d1d3ccdf7931ae9710dfefb00d8cd523>

9. Local server tabpy

<https://github.com/tableau/TabPy>

10.Document api for accessing the XML

<https://www.theinformationlab.co.uk/2016/11/23/tableaus-document-api-python-part-l/>

11. XML file reading

Explanation of the file structure of tableau