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surfersamu
Helper II

✔ Pull data from a REST API Authentication

09-05-2017 10:14 AM

I'm trying to pull data from REST API. At the moment I'm facing some difficulties tyring to authenticate.

All I have is:

Link:

https://service4.ultipro.com/services/EmployeePerson

Authorization Headers:

"Authorization: Basic c29tZXVzZXI6c29tZXBhc3dvcmQ="

"US-Customer-Api-Key: ABCDE"

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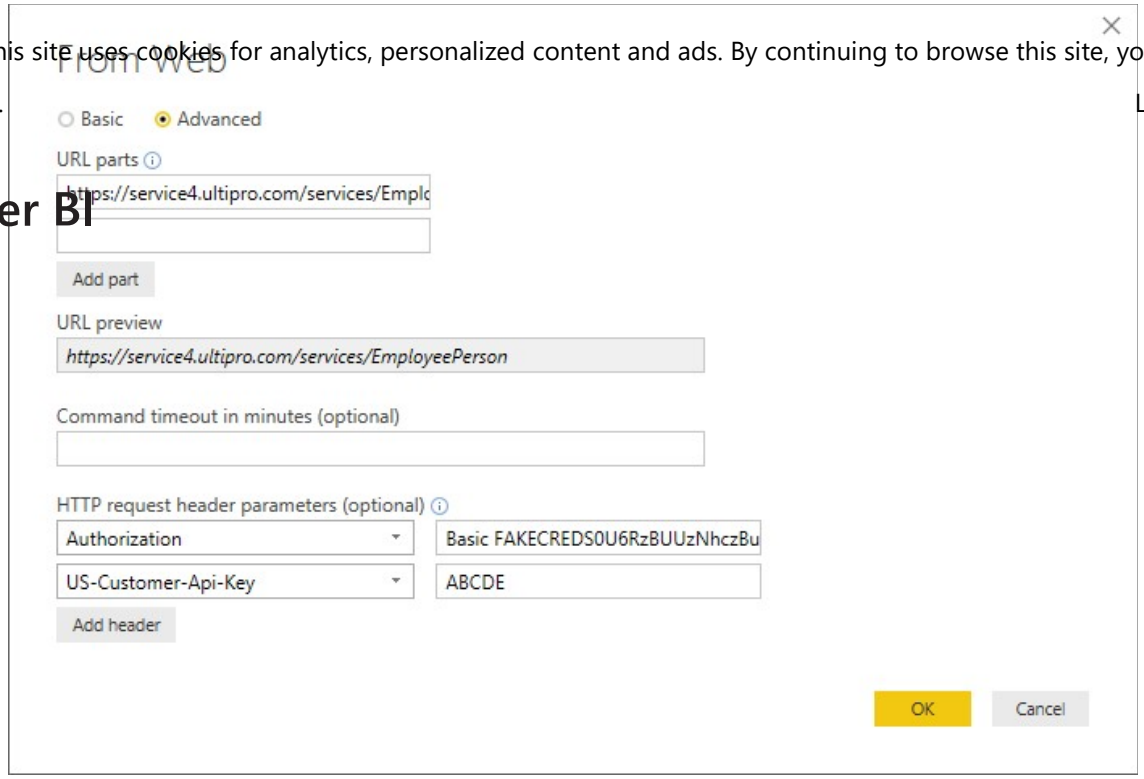
Power BI



I get this Error when I click OK:

Details: "The 'Authorization' header is only supported when connecting anonymously. These headers can be used with all authentication types: Accept, Accept-Charset, Accept-Encoding, Accept-Language, Cache-Control, If-Modified-Since, Prefer, Referer"

Solved! **Go to Solution.**

Labels: Need Help

Message 2 of 8 (63,563 Views)

0 Reply

1 ACCEPTED SOLUTION

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CST v-qiuyu-msft Re: REST API and Authentication

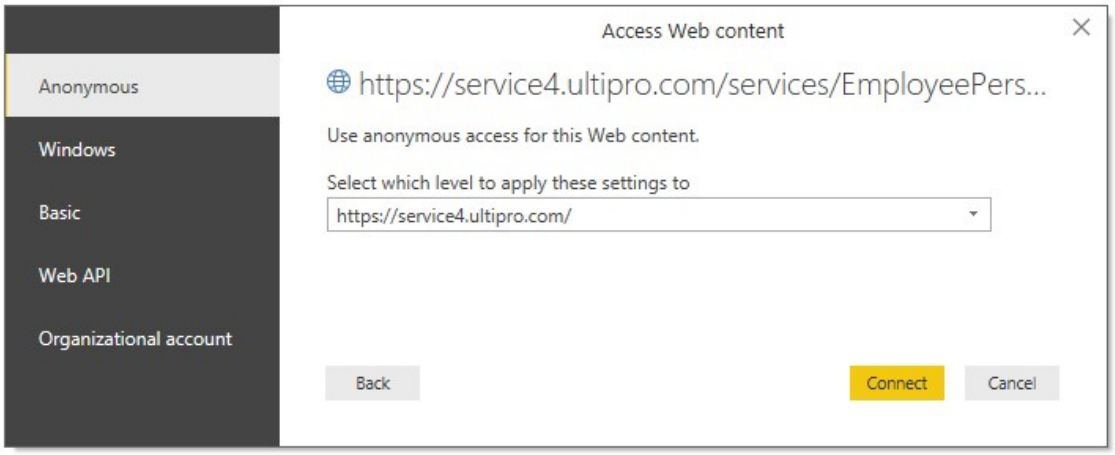
Community Support

09-07-2017 01:40 AM

Power BI

Hi @surfersamu,

I have tested in Power BI desktop using the connection information you provided, there is no error throws out. After you fill the connection information like the image you provided and click OK button, please use Anonymous authentication, as you already provide the authorization key.



You can download the attached pbix file to have a look. By the way, here are some samples of calling API to get data in Power BI:

Calling REST APIs and Parsing JSON made simple with Power BI

Get Data from Twitter API with Power Query

Best Regards,
Qiuyun Yu
Community Support Team _ Qiuyun Yu
If this post **helps**, then please consider *Accept it as the solution* to help the other

View solution in original post

UtliPro REST API.pbix

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Power BI

Message 5 of 8 (70,632 Views)

3 Reply

7 REPLIES

surfersamu

Helper II

REST API and Authentication

09-05-2017 07:04 AM

Hi guys,

I am tyring to get data from UtliPro REST API. The problem that I'm facing is that I don't know to how to authenticate with http headers.

This is what I have:

Link

https://service4.ultipro.com/services/EmployeePerson

HTTP Headers

Authorization:Basic FAKECREDSFUlZJQ0U6RzBUUzNhczBuMjAxNyE=

US-Customer-Api-Key:ABCDE

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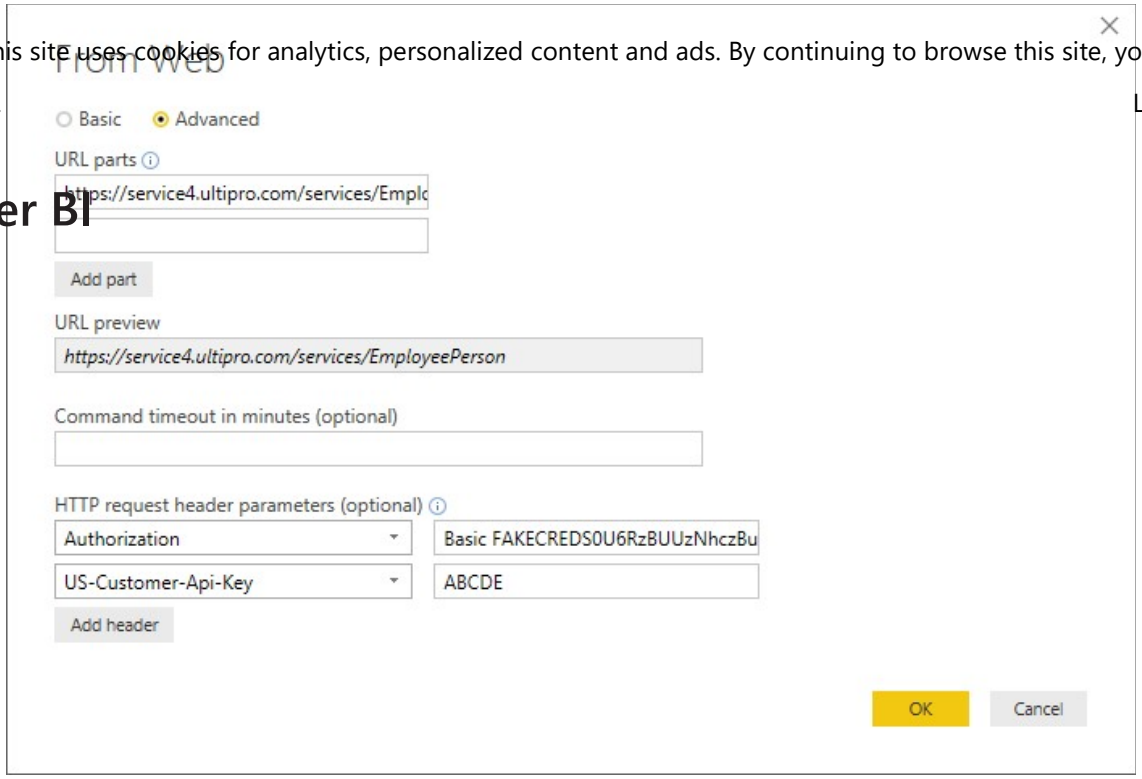
Power BI



When I try this on the Get Data from Web dialog I get:

"The 'Authorization' header is only supported when connecting anonymously. These headers can be used with all authentication types: Accept, Accept-Charset, Accept-Encoding, Accept-Language, Cache-Control, If-Modified-Since, Prefer, Referer"

This is an example provided by UltiPro using XML:

<s:Envelope xmlns:a="http://www.w3.org/2005/08/addressing" xmlns:s="http://www.w3.org/2003/05/soap-envelope">

<s:Header>

<a:Action s:mustUnderstand="1">http://www.ultipro.com/services/employeeemploymentinformation/IEmployeeEmploymentInformation/GetEmpl...</a:Action>

<UltiProToken xmlns="http://www.ultimatesoftware.com/foundation/authentication/ultiprotoken">27e17fe3-29cb-48a0-

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a130-4bad41971dcb</UltiProToken>

<ClientAccessKey xmlns="http://www.ultimatesoftware.com/foundation/authentication/clientaccesskey">CAN12</ClientAccessKey>

Power BI

</s:Header>

<s:Body>

<GetEmploymentInformationByEmployeeIdentifier xmlns="http://www.ultipro.com/services/employeeemploymentinformation">

<employeeIdentifier xmlns:b="http://www.ultipro.com/contracts" xmlns:i="http://www.w3.org/2001/XMLSchema-instance" i:type="b:EmployeeNumberIdentifier">

<b:CompanyCode>C0014</b:CompanyCode>

<b:EmployeeNumber>004446049</b:EmployeeNumber>

</employeeIdentifier>

</GetEmploymentInformationByEmployeeIdentifier>

</s:Body>

</s:Envelope>

Message 1 of 8 (63,535 Views)

0 Reply

malagari **Re: Pull data from a REST API Authentication**

Resolver IV

09-05-2017 11:06 AM

I don't think this is a Power BI issue; the details that are returned are most likely from the API for ultipro.com. You can try connecting with a tool like Postman to verify that the issue is in the API information. If you're able to connect via Postman, then it is

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something isolated to Power BI.

Dan Malagari

Consultant at Headspring

Power BI

Message 3 of 8 (63,554 Views)

1 Reply

surfersamu **Re: Pull data from a REST API Authentication**

Helper II

09-05-2017 12:25 PM

You are right. I tried on postman and got nothing. I have started a support ticket with them.

Assuming the API wasn't giving me an error. Is that the right way to make a HTTP GET Request? Sorry I'm new to REST APIs.

Message 4 of 8 (63,550 Views)

0 Reply

CST v-qiuyu-msft **Re: REST API and Authentication**

Community Support

09-07-2017 01:40 AM

Hi @surfersamu,

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Power BI

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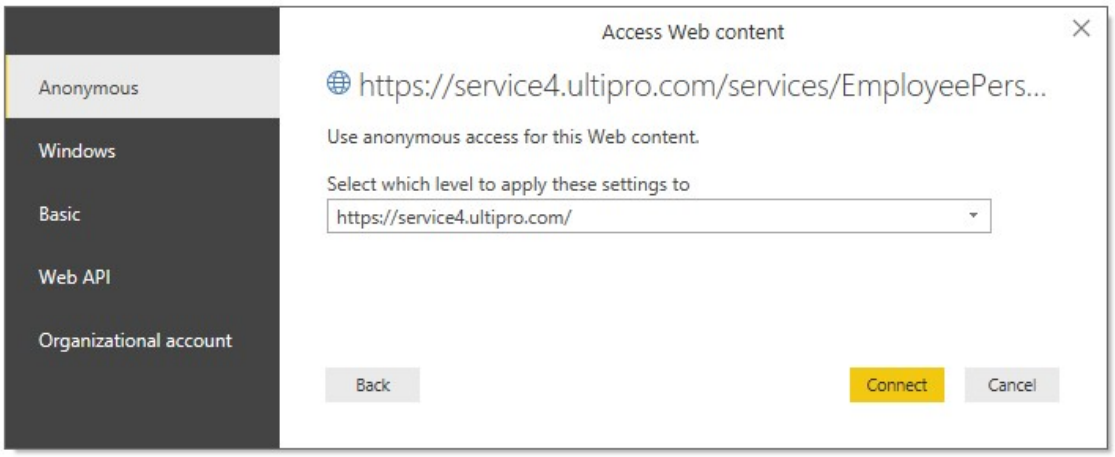

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Get Data from Twitter API with Power Query

Best Regards,
Qiuyun Yu
Community Support Team _ Qiuyun Yu
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View solution in original post

UtliPro REST API.pbix

Message 5 of 8 (70,633 Views)

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Power BI

surfersamu
Helper II

Re: REST API and Authentication

09-08-2017 06:01 AM

UltiPro support takes a very long time to reply.

Ok I found the reason why is not working. Because UltiPro requires you to get a token to make a SOAP request. I have a token now.

Using advanced editor how can I fix this code:

I keep getting:

DataSource.Error: Web.Contents failed to get contents from 'https://service4.ultipro.com/services/EmployeePerson' (415): Unsupported Media Type

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Power BI

```
let
  Source = Xml.Tables(Web.Contents("https://service4.ultipro.com/services/EmployeePer
  ,[Content=Text.ToBinary("<s:Envelope xmlns:a="&Character.FromNumber(34)&"http://www
  <s:Header>
  <a:Action s:mustUnderstand="&Character.FromNumber(34)&"1"&Character.FromNumber(34)&
  <UltiProToken xmlns="&Character.FromNumber(34)&"http://www.ultimatesoftware.com/fou
  <ClientAccessKey xmlns="&Character.FromNumber(34)&"http://www.ultimatesoftware.com/
  </s:Header>
  <s:Body>
  <FindPeople xmlns="&Character.FromNumber(34)&"http://www.ultipro.com/services/emplo
  <query xmlns:b="&Character.FromNumber(34)&"http://www.ultipro.com/contracts"&Charac
  <b:CompanyCode />
  <b:CompanyName />
  <b:Country />
  <b:EmployeeNumber />
  <b:FirstName>like (a%)</b:FirstName>
  <b:FormerName />
  <b:FullOrPartTime />
  <b:Job />
  <b:LastHire />
  <b:LastName />
  <b:Location />
  <b:OrganizationLevel1 />
  <b:OrganizationLevel2 />
  <b:OrganizationLevel3 />
  <b:OrganizationLevel4 />
  <b:OriginalHire />
  <b:PageNumber />
  <b:PageSize />
  <b:PayGroup />
  <b:Status />
  <b:SupervisorLastName />
  <b:TerminationDate />
  <b:TimeClockId />
  </query>
  </FindPeople>
  </s:Body>
  </s:Envelope>"),Headers=[#"Accept-Encoding"="gzip,deflate", #"Accept"="Basic U0Vfda
))
in
Source
```

Message 6 of 8 (63,508 Views)

0 Reply

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CST v-qiuyu-msft **Re: REST API and Authentication**

Community Support

09-12-2017 01:32 AM

Power BI

Hi @surfersamu,

It seems your original issue is solved, right?

Regarding the second issue, if you are not familiar with the Power Query, please use features available in Query Editor UI to transform data. As this is another issue, please post in a new thread and share the pbix file if possible.

Best Regards,
Qiuyun Yu
Community Support Team _ Qiuyun Yu
If this post **helps**, then please consider ***Accept it as the solution*** to help the other

Message 7 of 8 (63,467 Views)

1 Reply

ZappySys

Helper I

Re: Pull data from a REST API Authentication

06-18-2018 07:43 AM

ZappySys has introduced powerful API Drivers to query virtually any JSON / XML API services in Power BI (e.g. Zendesk, Twitter, Google API, Amazon AWS)

Check this blog for more info: https://zappysys.com/blog/howto-import-json-rest-

api-power-bi/

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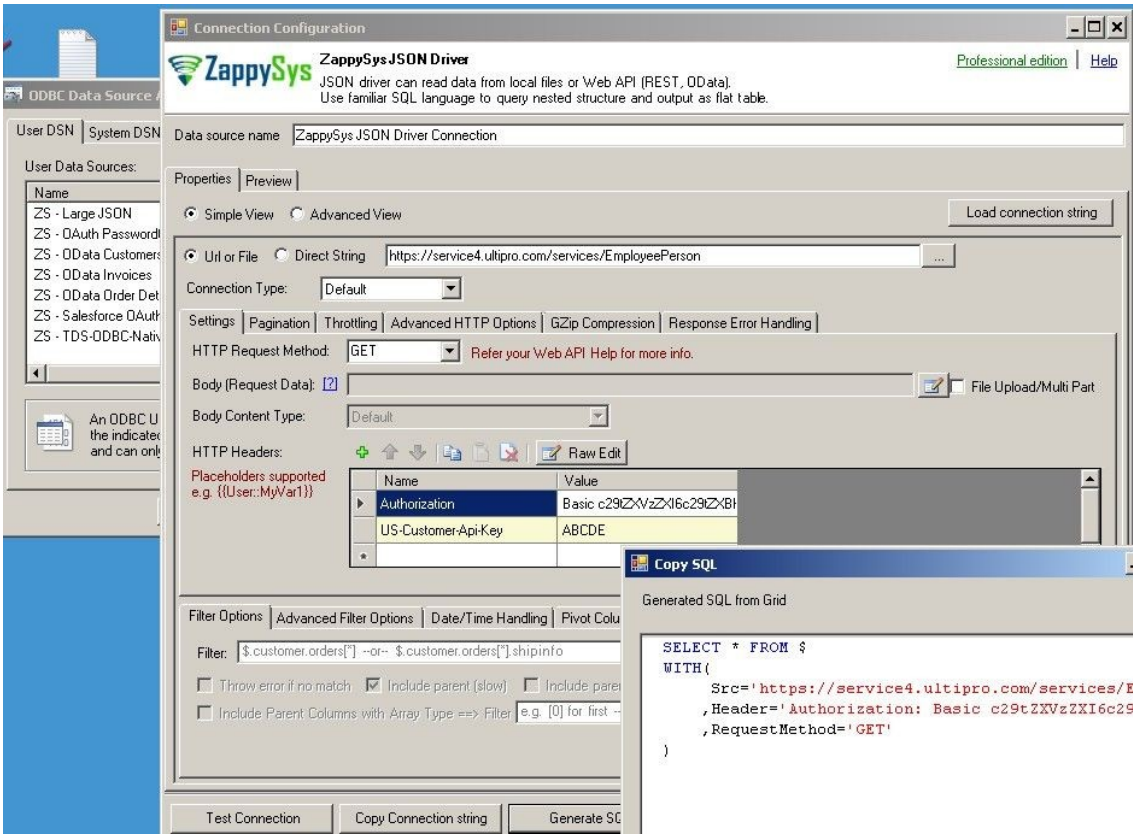
Power BI

Basically, Calling REST API in Power BI can be a challenging process because you have to deal with many complex issues. If its simple JSON / XML then fine but in the real world, many other issues arise such as pagination, flatten the hierarchy, error handling, security (OAuth, Basic, Certificate).

Hope this helps!!



Step-1 : Create your ODBC DSN to call REST API or read JSON / XML data

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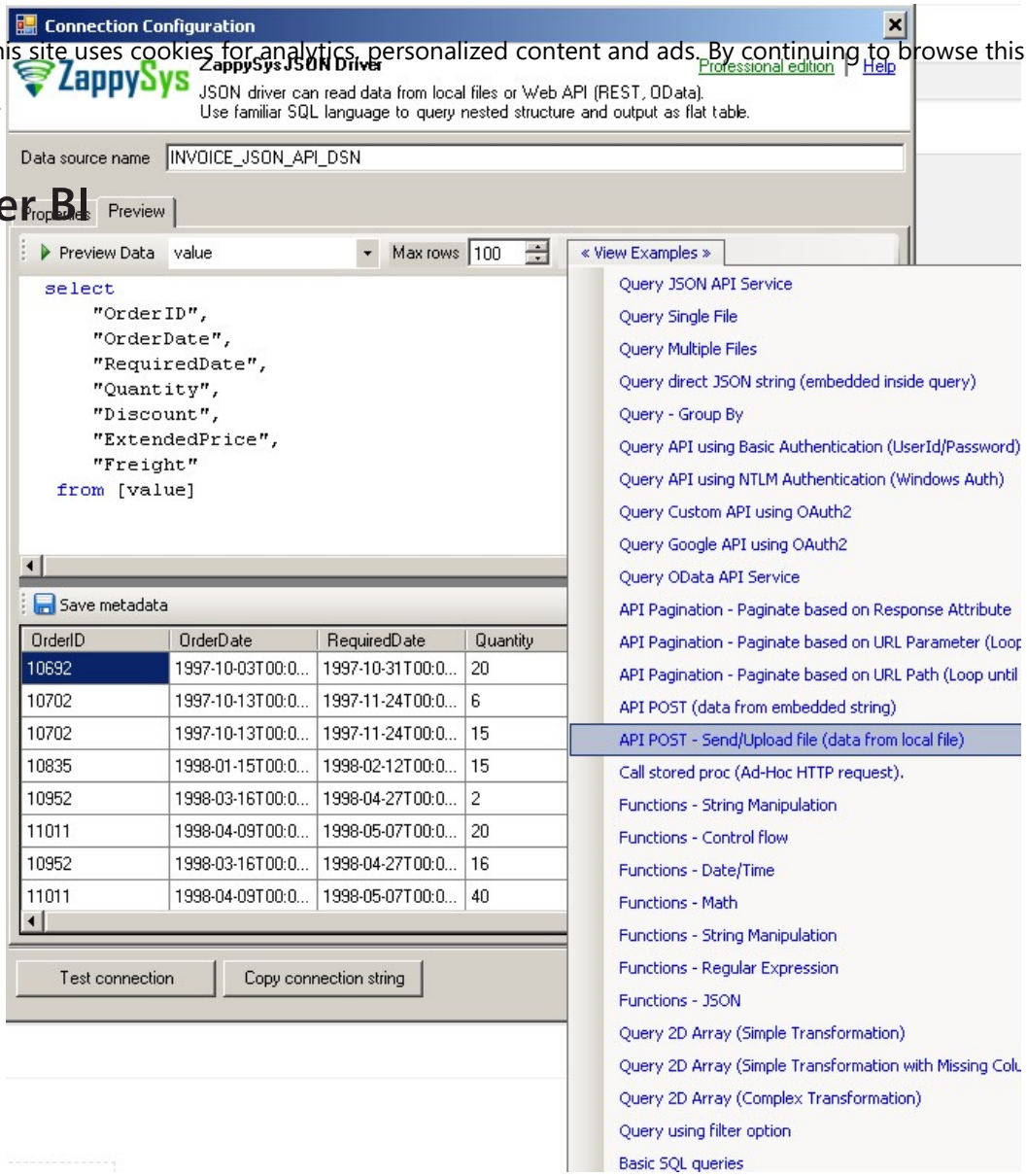

Step-2 : Build / Test your REST API Query

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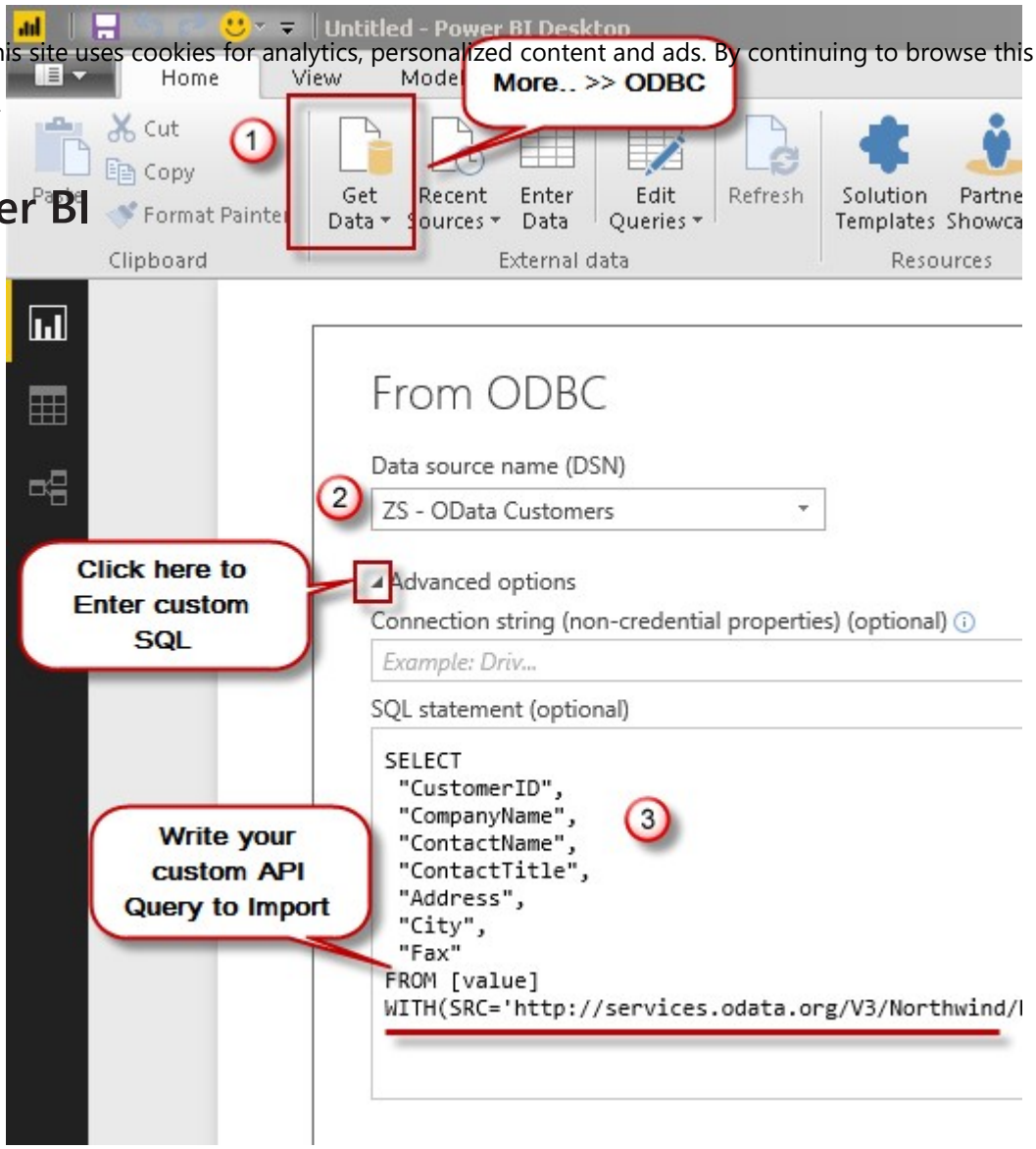

Step-3: Import REST API data in Power BI using ODBC connection (Under Get Data >> More >> Other)

You can write queries like below (JSON Driver Example)

```
SELECT * FROM $
WITH(
src='https://service4.ultipro.com/services/EmployeePerson'
,Header='Authorization: Basic c29tZXVzZXI6c29tZXBhc3dvcmQ= || US-Customer-Api-Key: A
,RequestMethod='GET'
)
```

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Message 8 of 8 (60,521 Views)

0 Reply

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Helpful resources

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Announcements

March 2020 Community Highlights

Check out the full recap for the month!

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Recommendations

✔ Pull data from a REST API Authentication - JIRA	04-04-2019 11:46 PM
✔ Pull data from RESTful API with token authenticati...	10-20-2016 07:55 AM
✔ Retrieving data from REST API	08-26-2019 06:53 AM
✔ REST API (web data source) Authentication Header i...	04-06-2020 03:13 AM
✔ Using a REST API as a data source	07-15-2016

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