BlueDot DaaS Demo

Introduction:

All the BlueDot DaaS APIs are searchable, sortable, filterable and paginating using OData format.

Scenario

**A client wants to get all the location ids, location names and ISO codes for countries. The client wants to filter out all ISO codes that have null value and location type is country and sort the result by population.**

[https://developer-staging.bluedot.global/indexes/v1/locations-index?$filter=isoCode ne null and locationType eq 6 $select=id,name,isoCode,population&$orderby=population desc](https://developer-staging.bluedot.global/indexes/v1/locations-index?$filter=isoCode%20ne%20null%20and%20locationType%20eq%206%20$select=id,name,isoCode,population&$orderby=population%20desc)

Steps to demo how to use the BlueDot DaaS developer portal

To get all the locations ISO codes, the developer needs to invoke “Locations index” endpoint API. This can be done from any modern programming language but for the purpose of this demo and to get familiar with how to invoke the BlueDot DaaS APIs, these steps can be followed:

1. Go to BlueDot.Daas.Indexes.Api
2. Click Location indexes
3. Click Try it
4. Input id,name,isoCode in the $select
5. Input isoCode ne null and locationType eq 6 in the $filter
6. Input population desc in the $orderby
7. Input 1000 in the $top

Graphical user interface, application

Description automatically generated

1. Make sure the Subscription key is selected and your primary or secondary field is shown in the Ocp-Apim-Subscription-Key request header
2. Click “Try it”
3. The API will return the result in the http response after clicking Send
4. Notice that the result is all countries/territories that their ISO code is not null and location type is 6 (means country), sorted descending by population

**Note**: The maximum records retrieved by one request call is 1000 records. So, the client can get the BlueDot data by pagination using $top and $skip for the large data sets.

You can use $top and $skip to get pages. e.g., adding &$top=10&skip=10 to the BlueDot DaaS API querystring will give the second 10 records. As shown below:

Diagram, text

Description automatically generated

The HTTP response is similar to the screenshot below:

A picture containing text, receipt, screenshot, document

Description automatically generated

Steps to demo how to invoke BlueDot DaaS APIs from PowerBI, visualize it on map and schedule the data refresh

1. Open PowerBI
2. From Home menu, click on “Get Data” then “From Other Sources”, the “From Web”

Graphical user interface, application

Description automatically generated

1. To invoke the “Locations index” API from PowerBI, copy the API endpoint, Ocp-Apim-Subscription-Key and your key from BlueDot DaaS developer portal and place it in the PowerBI URL parts

Graphical user interface, application, email

Description automatically generated

1. In Excel, click “Get Data” then paste the URL of the endpoint:

Graphical user interface, application

Description automatically generated

1. Select Advanced and enter Ocp-Apim-Subscription-Key and your key in the header, then click OK

![Graphical user interface, text, application

Description automatically generated]()

1. After clicking OK, the API will be invoked, and the result will appear in PowerBI, then click To Table and OK

Table, Excel

Description automatically generated

1. You can remove the unwanted field by right click on the field header and click Romove

Graphical user interface, table

Description automatically generated with medium confidence

1. You can rename the fields by right click on the field header and click Rename

Graphical user interface, table

Description automatically generated

1. You can rename the query by right click on the data source and give it meaningful name

Graphical user interface, application

Description automatically generated

A screenshot of a computer

Description automatically generated

1. Click Close & Load
2. Notice the result will be loaded in a spreadsheet
3. To visualize the result on map, you can use PowerBI 3D Map
4. The result will be shown as below

Graphical user interface, application

Description automatically generated

Graphical user interface

Description automatically generated

**Note**: you can invoke the index APIs with max Top 1000 records, and you can get the next pages by increasing the Skip. These APIs can be called from any modern programming language that are able to invoke APIs.