PxAPI Description

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# About this document

This is a brief instruction how to use the PxApi that is included when you install PxWeb.

PxApi is a web API, for more information about web API:s see the description from [Wikipedia](http://en.wikipedia.org/wiki/Web_API).

# Basic functionality

The basic functionality of the PxApi is described at the web site of [Statistics Sweden](http://www.scb.se/api_en). You should start to read this documentation since it is not described in this document.

# Configuration settings

It is possible to retrieve some of the configurations settings of PxApi through the API itself.

By adding ?config at the end of an API-call some of the configuration settings are returned.

**Example:** The following call to the API:

<http://www.mypxweb.com/api/v1/en/?config>

...will return something like this:

{"maxValues":10000,"maxCells:100000","maxCalls":10,"timeWindow":10,"CORS":true}

These are some of the settings that has been configured for the API in the PxWeb Administration tool (see the document Configuration-pxweb.pdf for more information).

# Search functionality

If a search index has been created for a database it is possible to make search queries to that database through the API. By adding ?query=*searchstring* to the end of the API call, all tables matching *searchstring* will be returned as the result of the call.

**Example:** The following call to the API:

http://www.mypxweb.com/api/v1/en/database\_with\_searchindex/?query=immigrants

...will return all tables in the database regarding libraries, for example:

[

{

"id": "PrognosForandr04",

"path": "/BE/BE0401/BE0401B",

"title": "Number of births, deaths, immigrants, emigrants and population size. Year 2007-2050",

"score": 0.341503322,

"published": "2007-06-15T09:30:00"

},

{

"id": "UtbMigInvLand",

"path": "/UF/UF0506",

"title": "Immigrants 16-74 years of age by sex, national background, level of educational attainment, field of education and country of emigration. Year of immigration 1987 - 2013",

"score": 0.318629563,

"published": "2014-04-23T09:30:00"

},

{

"id": "StudiedeltagandeR",

"path": "/UF/UF0507",

"title": "Population 16-64 years of age by sex, age, type of studies the autumn term, level of educational attainment and use of student grants during the autumn term. Year 1993 - 2013",

"score": 0.07957724,

"published": "2014-12-17T09:30:00"

}

]

Each table within the search result is described by the following fields:

Id

Table id

Path

Path within the database relative from where the search was made. In the example above the hole database was searched since no path was specified. But if we specifiy some path within the database only the tables benath that path will be included in the search result.

**Example:** If we specify some path within the database we will have another search result. In compare to the example above the following call to the API where we specify the path /UF/ within the databse:

http://www.mypxweb.com/api/v1/en/database\_with\_searchindex/UF/?query=immigrants

...will return all tables regarding libraries that resides benath the /UF/ part of the database. Also note that the path specified for each table in the search result is relative where the search was made:

[

{

"id": "UtbMigInvLand",

"path": "/UF0506",

"title": "Immigrants 16-74 years of age by sex, national background, level of educational attainment, field of education and country of emigration. Year of immigration 1987 - 2013",

"score": 0.318629563,

"published": "2014-04-23T09:30:00"

},

{

"id": "StudiedeltagandeR",

"path": "/UF0507",

"title": "Population 16-64 years of age by sex, age, type of studies the autumn term, level of educational attainment and use of student grants during the autumn term. Year 1993 - 2013",

"score": 0.07957724,

"published": "2014-12-17T09:30:00"

}

]

Title

Table title

Score

How well the table match the search query. A score of 1.0 is a perfect match

Published

When the table was published

**Notice:** If more than one word is defined in the search query only those tables matching all of the words in the query are returned.

**Example:** The following API call:

<http://www.mypxweb.com/api/v1/en/database_with_searchindex/UF/?query=immigrants> autumn

...will return only one table:

[

{

"id": "StudiedeltagandeR",

"path": "/UF0507",

"title": "Population 16-64 years of age by sex, age, type of studies the autumn term, level of educational attainment and use of student grants during the autumn term. Year 1993 - 2013",

"score": 0.3424059,

"published": "2014-12-17T09:30:00"

}

]

# Short URL for API calls containing only TABLE identifier

From the PxWeb 2017 v1 version it is possible to make API calls where you only specify the table (together with language and database), you can omit the path to the table. An API call could look like this:

<http://www.mypxweb.com/api/v1/en/db/table>

When addressing a PX-file database, table can be either the px-file name or the MATRIX of the table.

When addressing a CNMM database, table is supposed to be the table id.

This syntax works for both retrieving table metadata and table data (GET and POST).

This functionality makes use of the search functionality in PxWeb and requires that you have created a search index for the database.