

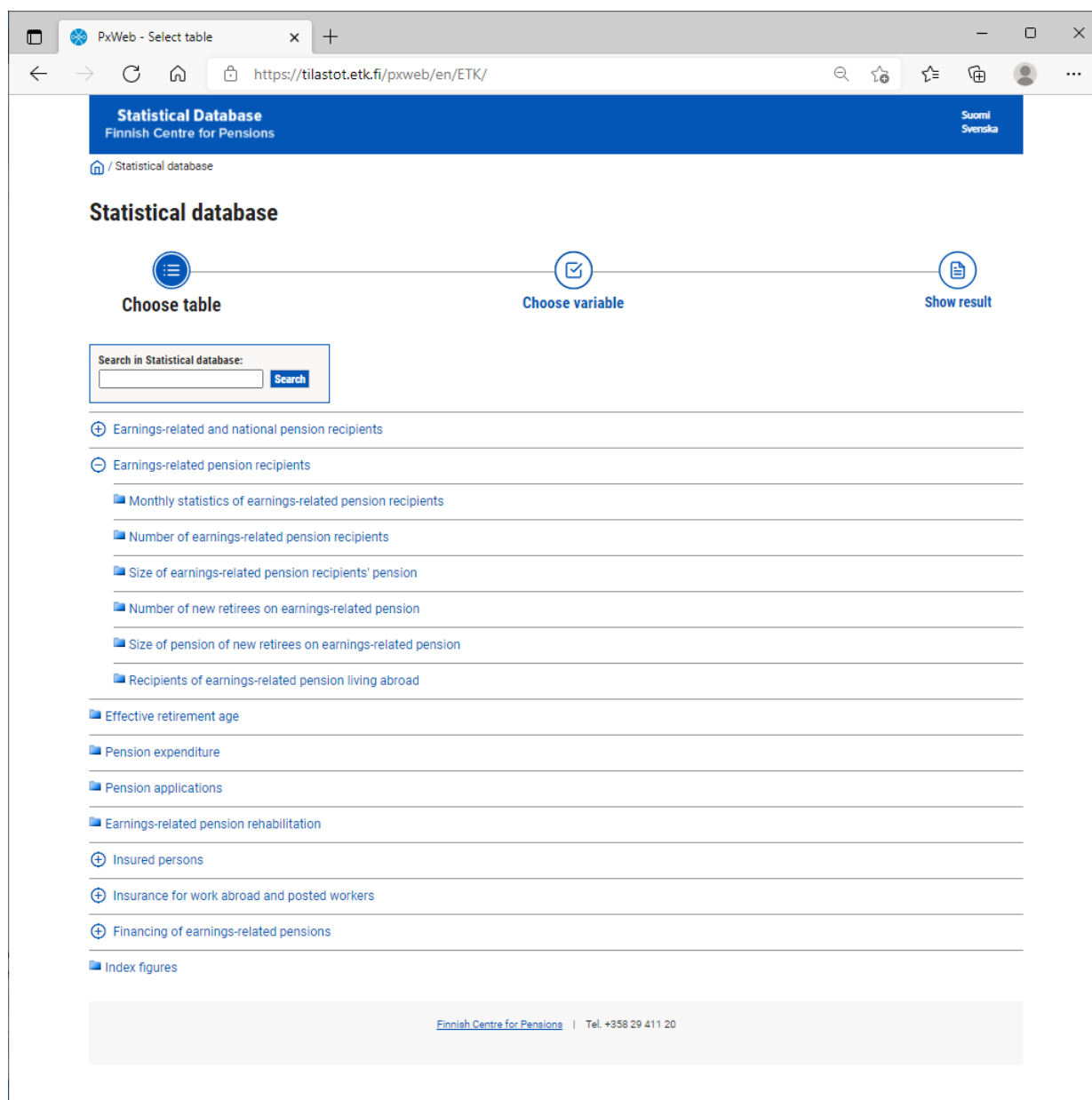
Instructions for Application Programming Interface (API) of the statistical database of the Finnish Centre for Pensions

You can search for machine-readable data from the statistical database of the Finnish Centre for Pensions in various formats in the Application Programming Interface (API). In these instructions, we explain how to use the API.

Search for statistics from the statistical database (<https://tilastot.etk.fi>) as usual according to instructions.

Screen capture 1

Statistical database, homepage (incl. subject area of statistics)



In the index, select the area of statistics that includes the statistical table which you want to form an API with, for example Earnings-related pension recipients, Number of earnings-related pension recipients and statistical database table Earnings-related pension recipients by pension benefit. Select the desired variables in the drop-down menu and press “Continue”.

Screen capture 2

You have selected a table from the statistical database that you want to form an API with

The screenshot shows a web browser window with the URL https://tilastot.etk.fi/pxweb/en/ETK/ETK_120tyoelakkeensaajat_20tyoelakkee.... The page title is "Statistical Database" and the subtitle is "Finnish Centre for Pensions". The main heading is "Number of earnings-related pension recipients". Below this, there are three buttons: "Choose table", "Choose variable", and "Show result". The "Choose table" button is selected, and the table "Earnings-related pension recipients by pension benefit" is chosen. Below the table name, there is a "List view" button. The page contains five selection panels, each with a search bar and a list of options:

- Year** (Mandatory): Selected 1 of total 29. Options: 2020, 2019, 2018, 2017, 2016, 2015.
- Area of residence or region** (Mandatory): Selected 1 of total 23. Options: Resident in Finland or abroad, Resident in Finland, Resident abroad, 01 Uusimaa, 02 Southwest Finland, 04 Satakunta.
- Pension benefit** (Mandatory): Selected 1 of total 13. Options: All pension benefits, Pension in one's own right, Old-age pension, Old-age pension (excl. partial old-age pens).
- Age or age group** (Mandatory): Selected 18 of total 18. Options: All age groups, 0 - 15, 16 - 19, 20 - 24, 25 - 29, 30 - 34.
- Gender** (Mandatory): Selected 1 of total 3. Options: Both genders, Males, Females.

Below the selection panels is a blue "Show table" button. Below the button, it says: "Number of selected data cells are: 18 (maximum number allowed is 1,000,000). Presentation on screen is limited to 1,000 rows and 100 columns." At the bottom, there is a "Footnotes" section and a footer with the text "Finnish Centre for Pensions | Tel. +358 20 411 20".

You get the results of the search on your screen.

Screen capture 3

The statistical data has been retrieved from the table in the statistical database

Statistical Database
Finnish Centre for Pensions

Statistical database / Earnings-related pension recipients / Number of earnings-related pension recipients / Earnings-related pension recipients by pension benefit

Number of earnings-related pension recipients

Choose table Choose variable Show result

Earnings-related pension recipients by pension benefit

About table Pivot manual Pivot clockwise Pivot counterclockwise Fullscreen

Show result as... Edit and Calculate Save result as... Save your query Hide empty rows

	Both genders
2020	
Resident in Finland or abroad	
All pension benefits	
All age groups	1,817,048
0 - 15	7,910
16 - 19	3,289
20 - 24	360
25 - 29	1,377
30 - 34	2,848
35 - 39	4,774
40 - 44	7,312
45 - 49	10,743
50 - 54	21,014
55 - 59	42,869
60 - 64	197,414
65 - 69	344,314
70 - 74	388,349
75 - 79	236,201
80 - 84	164,163
85 - 89	99,432
90 +	87,619

Footnotes

API query for this table

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To create the interface click the text “API query for this table” and you get the required information to form the interface. It includes the URL address and a JSON query. They are used to form a machine-readable connection with the table in the statistical database.

Screen capture 4

Search result of the table in the statistical database. It includes a ready query for the interface

Footnotes

API query for this table

POST the following JSON query to the URL below to access this table from your application.

URL:

https://tilastot.etk.fi:443/api/v1/en/ETK/120tyoelakkeensaaajat/20tyoelakkeensaaajien_lkm/elsa_t0

JSON query:

```
{
  "query": [
    {
      "code": "Vuosi",
      "selection": {
        "filter": "item",
        "values": [
          "2020"
        ]
      }
    },
    {
      "code": "Asuinalue tai maakunta",
      "selection": {
        "filter": "item",
        "values": [
          "000"
        ]
      }
    }
  ],
}
```

Save API query (json)

More information

Finnish Centre for Pensions

Tel. +358 29 411 20

URL:

(https://tilastot.etk.fi:443/api/v1/en/ETK/120tyoelakkeensaaajat/20tyoelakkeensaaajien_lkm/elsa_t02_laji.px)

Use the query http-POST to send the example query to the given URL. The parameters of the query indicate which data are retrieved from the statistical database. Using the GET query (or by opening the link in your browser), you can see the metadata of the statistical table, that is, its structure.

Choose the format in the query (json, json-stat, xlsx or px). By leaving out the variable in the query, the result will include all values for the variable in question.

The interface can be used with all techniques and software languages that can be used to make http queries and handle material in JSON form.

Example of the structure of the statistics of the link retrieved using the GET query:

```
{"title": "Earnings-related pension recipients by pension benefit", "variables": [{"code": "Vuosi", "text": "Year", "values": ["1992", "1993", "1994", "1995", "1996", "1997", "1998", "1999", "2000", "2001", "2002", "2003", "2004", "2005", "2006", "2007", "2008", "2009", "2010", "2011", "2012", "2013", "2014", "2015", "2016", "2017", "2018", "2019", "2020"]}]}
```

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```
7","1998","1999","2000","2001","2002","2003","2004","2005","2006","2007","2008","2009","2010","2011","2012","2013","2014","2015","2016","2017","2018","2019","2020"],"valueTexts":["1992","1993","1994","1995","1996","1997","1998","1999","2000","2001","2002","2003","2004","2005","2006","2007","2008","2009","2010","2011","2012","2013","2014","2015","2016","2017","2018","2019","2020"],"time":true},{ "code":"Asuinalue tai maakunta","text":"Area of residence or region","values":["000","001","002","01","02","04","05","06","07","08","09","10","11","12","13","14","15","16","17","18","19","20","21"],"valueTexts":["Resident in Finland or abroad","Resident in Finland","Resident abroad","01 Uusimaa","02 Southwest Finland","04 Satakunta","05 Kanta-Häme","06 Pirkanmaa","07 Päijät-Häme","08 Kymenlaakso","09 South Karelia","10 South Savo","11 North Savo","12 North Karelia","13 Central Finland","14 South Ostrobothnia","15 Ostrobothnia","16 Central Ostrobothnia","17 North Ostrobothnia","18 Kainuu","19 Lapland","20 Itä-Uusimaa","21 Åland"]},{ "code":"Eläkelaji","text":"Pension benefit","values":["e00","e10","e40","e42","e44","e46","e48","e50","e60","e70","e80","e92","e94"],"valueTexts":["All pension benefits","Pension in one's own right","Old-age pension","Old-age pension (excl. partial old-age pension)","Partial old-age pension","Partial old-age pension 25%","Partial old-age pension 50%","Disability pension","Unemployment pension","Part-time pension","Special pension for farmers","Surviving spouse's pension","Orphan's pension"]},{ "code":"Ikä tai ikäluokka","text":"Age or age group","values":["999","0","1","2","3","4","5","6","7","8","9","10","11","12","13","14","15","16","17","18","19","20","21","22","23","24","25","26","27","28","29","30","31","32","33","34","35","36","37","38","39","40","41","42","43","44","45","46","47","48","49","50","51","52","53","54","55","56","57","58","59","60","61","62","63","64","65","66","67","68","69","70","71","72","73","74","75","76","77","78","79","80","81","82","83","84","85","86","87","88","89","90","91","92","93","94","95","96","97","98","99","100","101","102","103","104","105","106","107","108","109","110","111","112","113","114","115","116","117"],"valueTexts":["All age groups","0","1","2","3","4","5","6","7","8","9","10","11","12","13","14","15","16","17","18","19","20","21","22","23","24","25","26","27","28","29","30","31","32","33","34","35","36","37","38","39","40","41","42","43","44","45","46","47","48","49","50","51","52","53","54","55","56","57","58","59","60","61","62","63","64","65","66","67","68","69","70","71","72","73","74","75","76","77","78","79","80","81","82","83","84","85","86","87","88","89","90","91","92","93","94","95","96","97","98","99","100 -","0 - 15","16 - 19","20 - 24","25 - 29","30 - 34","35 - 39","40 - 44","45 - 49","50 - 54","55 - 59","60 - 64","65 - 69","70 - 74","75 - 79","80 - 84","85 - 89","90 - 94","95 - 99","100 -"],"valueTexts":["Both genders","Males","Females"]}]}
```

JSON query (with which, by using the POST query, you can pick values listed as parameters from the database):

```
{
  "query": [
    {
      "code": "Vuosi",
      "selection": {
        "filter": "item",
        "values": [
          "2020"
        ]
      }
    },
    {
      "code": "Asuinalue tai maakunta",
      "selection": {
        "filter": "item",
        "values": [
          "000"
        ]
      }
    },
    {
      "code": "Eläkelaji",
      "selection": {
        "filter": "item",
        "values": [
          "e00"
        ]
      }
    },
    {
      "code": "Ikä tai ikäluokka",
      "selection": {
        "filter": "agg:Age group.agg",
        "values": [
          "999",
          "101",
          "102",
          "103",
          "104",
          "105",
          "106",
          "107",
        ]
      }
    }
  ]
}
```

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```
"108",
"109",
"110",
"111",
"112",
"113",
"114",
"115",
"116",
"117"
]
}
},
{
  "code": "Sukupuoli",
  "selection": {
    "filter": "item",
    "values": [
      "Mol"
    ]
  }
}
],
"response": {
  "format": "px"
}
}
```

More information

For more information on the use of the PxWeb API interface, go to Statistics Finland http://www.stat.fi/org/avoindata/pxweb_en.html

Statistics Sweden (SCB)

<https://scb.se/en/services/oppna-data/api-for-the-statistical-database/>

License of statistics of the statistical database

The statistical database of the Finnish Centre for Pensions has been licensed with the license Creative Commons Attribution 4.0 International (CC BY 4.0) license.

<https://www.etk.fi/en/research-statistics-and-projections/statistics/statistical-database/>

When using data from our statistical database, the source - the Finnish Centre for Pensions – must be mentioned.