

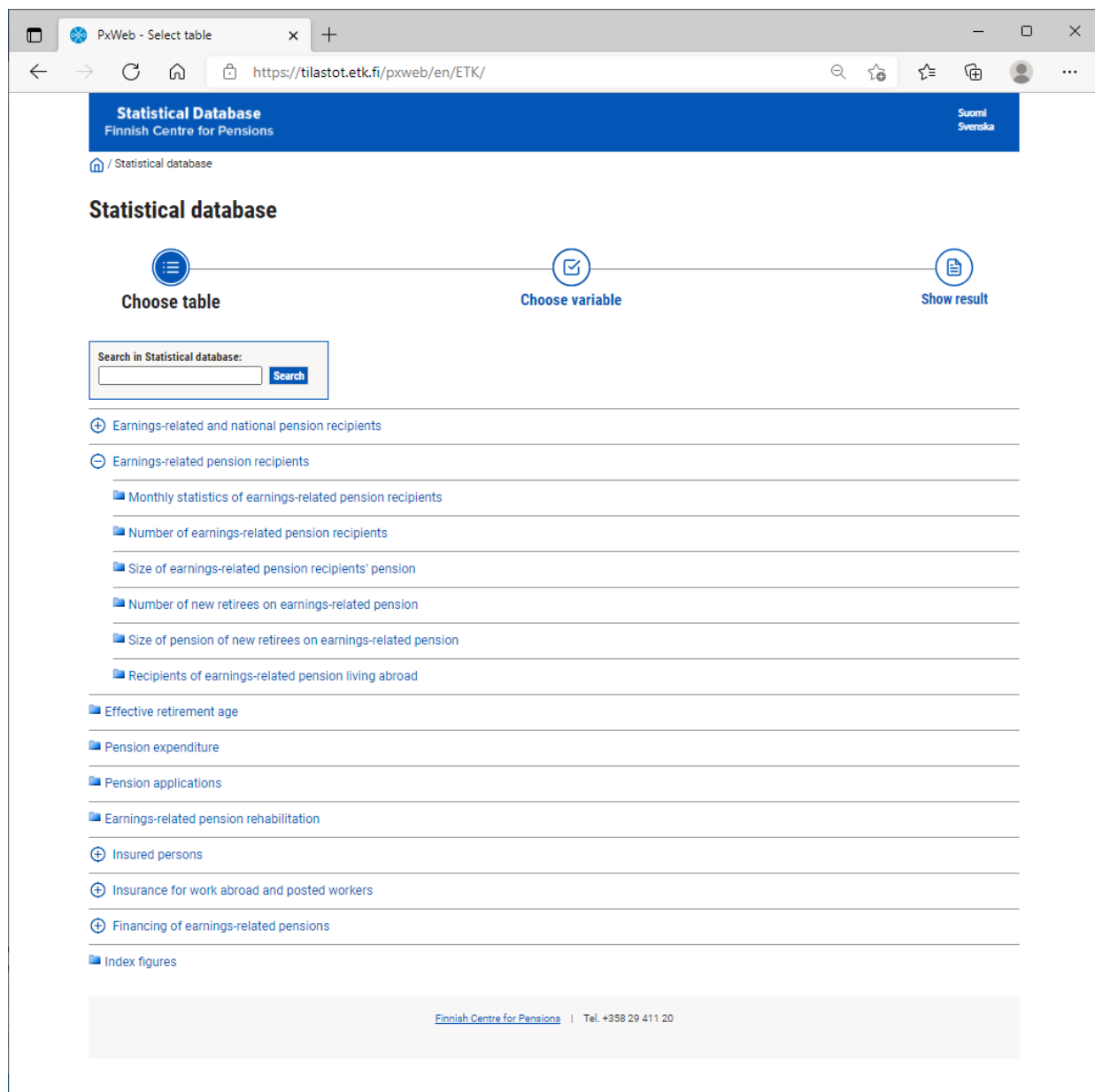
## Instructions for Application Programming Interface (API) of the statistical database of the Finnish Centre for Pensions

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)



The screenshot shows a web browser window with the URL <https://tilastot.etk.fi/pxweb/en/ETK/>. The page header includes the text "Statistical Database" and "Finnish Centre for Pensions" in a blue bar, with "Suomi Svenska" on the right. Below the header, the page title "Statistical database" is displayed. Three main navigation icons are shown: "Choose table" (a menu icon), "Choose variable" (a checkmark icon), and "Show result" (a document icon). A search bar is present with the placeholder text "Search in Statistical database:" and a "Search" button. The main content area lists several categories of statistics, each with a small blue folder icon:

- Earnings-related and national pension recipients
- Earnings-related pension recipients
  - Monthly statistics of earnings-related pension recipients
  - Number of earnings-related pension recipients
  - Size of earnings-related pension recipients' pension
  - Number of new retirees on earnings-related pension
  - Size of pension of new retirees on earnings-related pension
  - Recipients of earnings-related pension living abroad
- Effective retirement age
- Pension expenditure
- Pension applications
- Earnings-related pension rehabilitation
- Insured persons
- Insurance for work abroad and posted workers
- Financing of earnings-related pensions
- Index figures

At the bottom of the page, there is a footer with the text "Finnish Centre for Pensions | Tel. +358 29 411 20".

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\\_120yoelakkeensaajat\\_20yoelakkee...](https://tilastot.etk.fi/pxweb/en/ETK/ETK_120yoelakkeensaajat_20yoelakkee...). The page title is "Earnings-related pension recipients" and the breadcrumb trail is "Statistical database / Finnish Centre for Pensions / Earnings-related pension recipients / Number of earnings-related pension recipients / Earnings-related pension recipients by pension benefit".

The main heading is "Number of earnings-related pension recipients". Below it are three buttons: "Choose table", "Choose variable", and "Show result". The "Choose variable" button is active, and the selected table is "Earnings-related pension recipients by pension benefit".

Under "About table", there is a "List view" button and a note: "Mark your selections and press the 'Show table' button. [Marking tips](#)".

The selection interface consists of five panels, each with a search box and a "Beginning of word" checkbox:

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

A large blue "Show table" button is centered below the panels. Below the button, it states: "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: "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

Number of earnings-related pension recipients

Earnings-related pension recipients by pension benefit

	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	560
25 - 29	1,377
30 - 34	2,848
35 - 39	4,774
40 - 44	7,312
45 - 49	10,748
50 - 54	21,014
55 - 59	42,889
60 - 64	137,414
65 - 69	344,314
70 - 74	558,349
75 - 79	736,201
80 - 84	164,163
85 - 89	99,432
90 -	87,619

API query for this table

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](#)

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[API query for this table](#)

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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/120tyoelakkeensaajat/20tyoelakkeensaajien\\_lkm/elsa\\_t02\\_laj\\_i.px](https://tilastot.etk.fi:443/api/v1/en/ETK/120tyoelakkeensaajat/20tyoelakkeensaajien_lkm/elsa_t02_laj_i.px)

**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](#)

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**URL:**

([https://tilastot.etk.fi:443/api/v1/en/ETK/120tyoelakkeensaajat/20tyoelakkeensaajien\\_lkm/elsa\\_t02\\_laj\\_i.px](https://tilastot.etk.fi:443/api/v1/en/ETK/120tyoelakkeensaajat/20tyoelakkeensaajien_lkm/elsa_t02_laj_i.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","199

```



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](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.