

# DHIS2 WEB API



A quick way to explore your metadata and data from your browser

## Retrieve aggregated data

The analytics resource lets you query data aggregated along all available data dimensions. For instance, you can ask aggregated data values for a set of data elements, periods and org units.

As an example, to query for certain data elements filtered by the **periods** and **organisation units** you can use:

```
/api/analytics?dimension=dx:fbfJHSPpUQD;cYeuwXTCPkU&filter=pe:2014Q1;2014Q2&filter=ou:O6uvpzGd5pu;lc3eMKXaEfw
```

This example will return only records where the data value is between 6500 and 33000:

```
/api/analytics?dimension=dx:fbfJHSPpUQD;cYeuwXTCPkU&dimension=pe:2014&dimension=ou:O6uvpzGd5pu;lc3eMKXaEfw&measureCriteria=GT:6500;LT:33000
```

## Download the metadata

Add ".csv" after the URL to download the file and add "?paging=false" to display all elements:

```
/api/users.csv?paging=false
```

To save as a json file write this and the click on "save":

```
/api/dataElements.json?paging=false
```

## Getting Started

Go to your instance and add `"/api/resources"`:  
[play.dhis2.org/dev/api/resources](https://play.dhis2.org/dev/api/resources)

Search for a resource and click on the link:  
[play.dhis2.org/dev/api/dataSets](https://play.dhis2.org/dev/api/dataSets)

To get detailed info, copy the id of the element and add it after the resource URL:  
[play.dhis2.org/dev/api/dataElements/uF1DLnZNIWe](https://play.dhis2.org/dev/api/dataElements/uF1DLnZNIWe)

Also find an object based on its ID through the identifiableObjects resource:  
[play.dhis2.org/dev/api/identifiableObjects/<id>](https://play.dhis2.org/dev/api/identifiableObjects/<id>)



## Filter and customize info

Use the name of the field to only display that info for every object, for instance `"?fields=name"`:  
[/api/dataElements?fields=name](https://play.dhis2.org/dev/api/dataElements?fields=name)

To filter info, add `"?filter=resource:operator"`. As an example, to filter all elements with name property MyDataElement: [/api/dataElements?filter=name:eq:MyDataElement](https://play.dhis2.org/dev/api/dataElements?filter=name:eq:MyDataElement)

Or to get all elements which have a dataset with id ID1: [/api/dataElements?filter=datasetElements.dataset.id:eq:ID1](https://play.dhis2.org/dev/api/dataElements?filter=datasetElements.dataset.id:eq:ID1)

### Most used operators

eq - field equals value  
gt - field is greater than value  
lt - field is less than value  
in:[value1,value2,...] - field is a collection & value is an item contained  
like - field contains <value> or matches pattern

## Resources

[/api/users](https://play.dhis2.org/dev/api/users)  
[/api/userRoles](https://play.dhis2.org/dev/api/userRoles)  
[/api/organisationUnits](https://play.dhis2.org/dev/api/organisationUnits)  
[/api/dataSets](https://play.dhis2.org/dev/api/dataSets)  
[/api/programs](https://play.dhis2.org/dev/api/programs)  
[/api/indicators](https://play.dhis2.org/dev/api/indicators)  
[/api/programRules](https://play.dhis2.org/dev/api/programRules)  
[/api/dataElements](https://play.dhis2.org/dev/api/dataElements)  
[/api/categories](https://play.dhis2.org/dev/api/categories)  
[/api/categoryCombos](https://play.dhis2.org/dev/api/categoryCombos)

