Article
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Open Exchange

Plug and play DATASETS with ObjectScript Package Manager (ZPM)

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With the release of InterSystems IRIS 2021.2 Preview and all-new LOAD DATA functionality dataset can by added with Objectscript Package Manager (ZPM)

Medical Datasets contains following 12 datasets. For dataset tables and data details please visit ONLINE DEMO by using SuperUser ¦ SYS

ID	Dataset Name	Tables	Licence
1	Synthetic Medical Data	11	Public Domain
2	Health Care Analytics - 1	8	Public Domain
3	Global Suicide Data	7	Public Domain
4	COVID-19 Polls1	7	CC-BY
5	Cancer Rates by U.S. State	2	Public Domain
6	Opioid Overdose Deaths	2	Public Domain
7	Heart Disease Prediction	1	Public Domain
8	Yellowpages medical services dataset	1	Public Domain
9	Hospital ratings	1	Public Domain
10	Heart Failure Prediction	1	(CC BY 4.0)
11	Diabetes Dataset	1	Public Domain
12	Chronic Kidney Disease	1	Public Domain

In order to use any of the above listed dataset we can add in our namespace by using dataset ID, So Let's add Synthetic medical dataset

First of all we need to install dataset-medical package which can be done by using below command:

```
zpm "install dataset-medical
```

```
USER>zpm "install dataset-medical"

[dataset-medical]       Reload START (/usr/irissys/mgr/.modules/USER/dataset-medical/1.0.3/)
[dataset-medical]       Reload SUCCESS
[dataset-medical]       Module object refreshed.
[dataset-medical]       Validate START
[dataset-medical]       Validate SUCCESS
[dataset-medical]       Compile START
[dataset-medical]       Compile SUCCESS
[dataset-medical]       Activate START
[dataset-medical]       Configure START
[dataset-medical]       Configure SUCCESS
[dataset-medical]       MakeDeployed START
[dataset-medical]       MakeDeployed SUCCESS
[dataset-medical]       Activate SUCCESS
```

Now we are ready to import dataset. Dataset can be added or removed either by Terminal or by Web Application

ADDING DATASET FROM TERMINAL

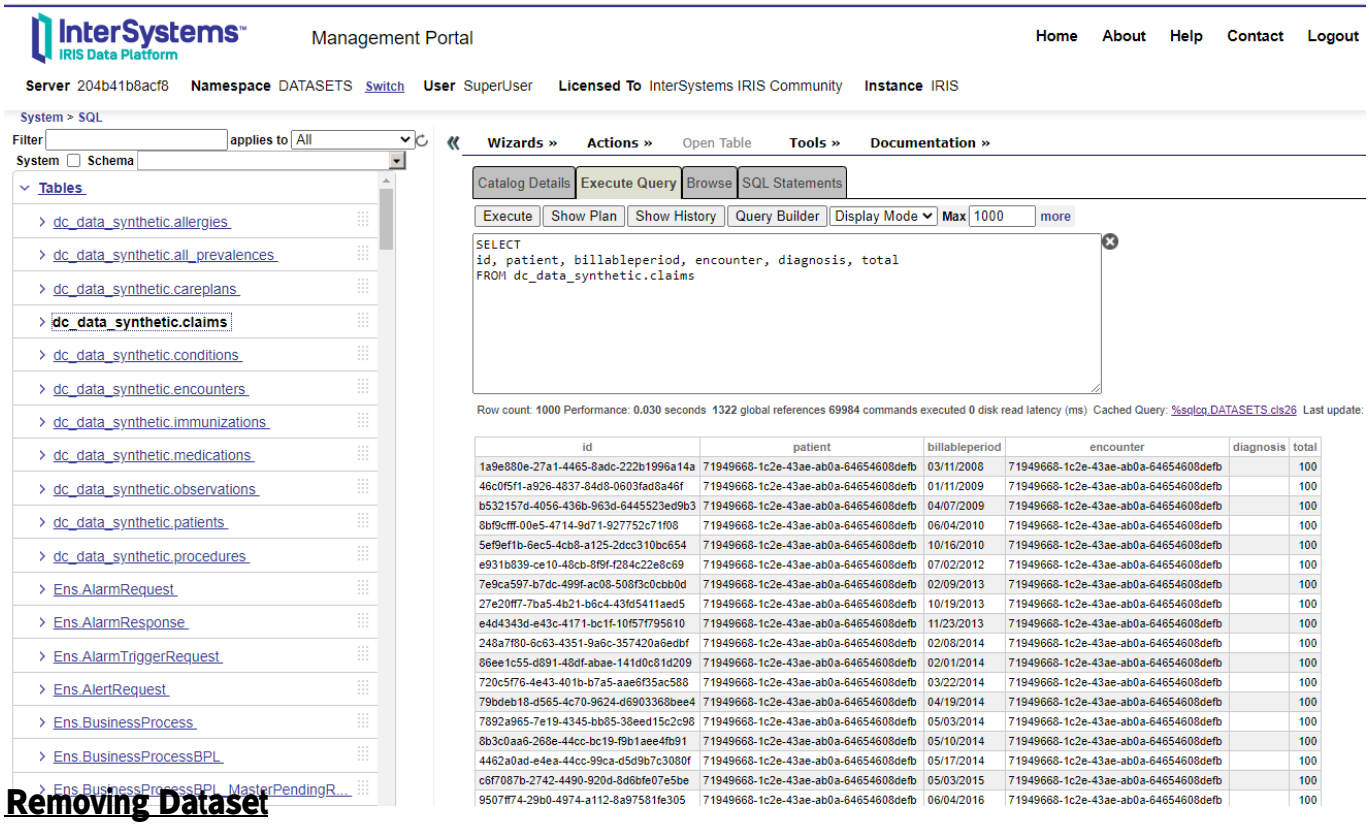
We can add dataset by calling ImportDS function of dc.data.medical.utility class by passing dataset ID from terminal:

```
do ##class(dc.data.medical.utility).ImportDS(1)
```

```
DATASETS>do ##class(dc.data.medical.utility).ImportDS(1)
DATASET : synthetic
Table : dc_data_synthetic.all_prevalences,    LoadedRows=244      DiagID=1
Table : dc_data_synthetic.allergies,          LoadedRows=572      DiagID=2
Table : dc_data_synthetic.careplans,          LoadedRows=12125    DiagID=3
Table : dc_data_synthetic.claims,             LoadedRows=10014    DiagID=4
Table : dc_data_synthetic.conditions,         LoadedRows=7040     DiagID=5
Table : dc_data_synthetic.encounters,         LoadedRows=6233     DiagID=6
Table : dc_data_synthetic.immunizations,      LoadedRows=13189    DiagID=7
Table : dc_data_synthetic.medications,        LoadedRows=6048     DiagID=8
Table : dc_data_synthetic.observations,       LoadedRows=16355    DiagID=9
Table : dc_data_synthetic.patients,           LoadedRows=1462     DiagID=10
Table : dc_data_synthetic.procedures,         LoadedRows=10184    DiagID=11
```

That's it, Our first dataset is created.

Dataset "synthetic" is created with 11 Tables and 83,341 records, which can be confirm by Management Portal



Removing Dataset

Use below command to remove particular dataset by passing it's ID

```
do ##class(dc.data.medical.utility).RemoveDS(1)
```

Adding ALL datasets

To install all the datasets pass 999 to ImportDS function

```
do ##class(dc.data.medical.utility).ImportDS(999)
```

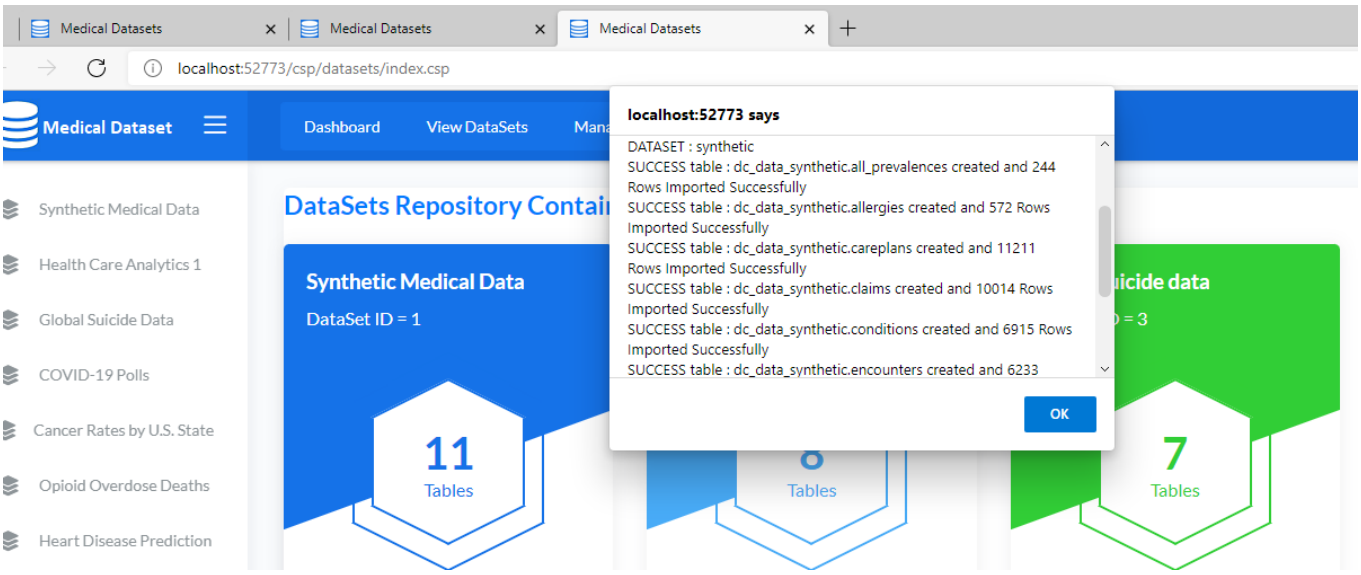
Removing ALL datasets

And to remove all the datasets pass 999 to RemoveDS function

```
do ##class(dc.data.medical.utility).RemoveDS(999)
```

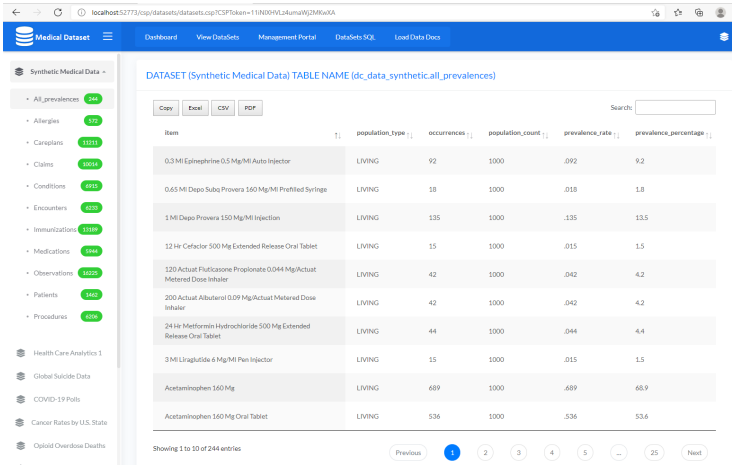
ADDING DATASET FROM TERMINAL

Navigate to http://localhost:52773/csp/datasets/index.csp and press Install DataSet button 



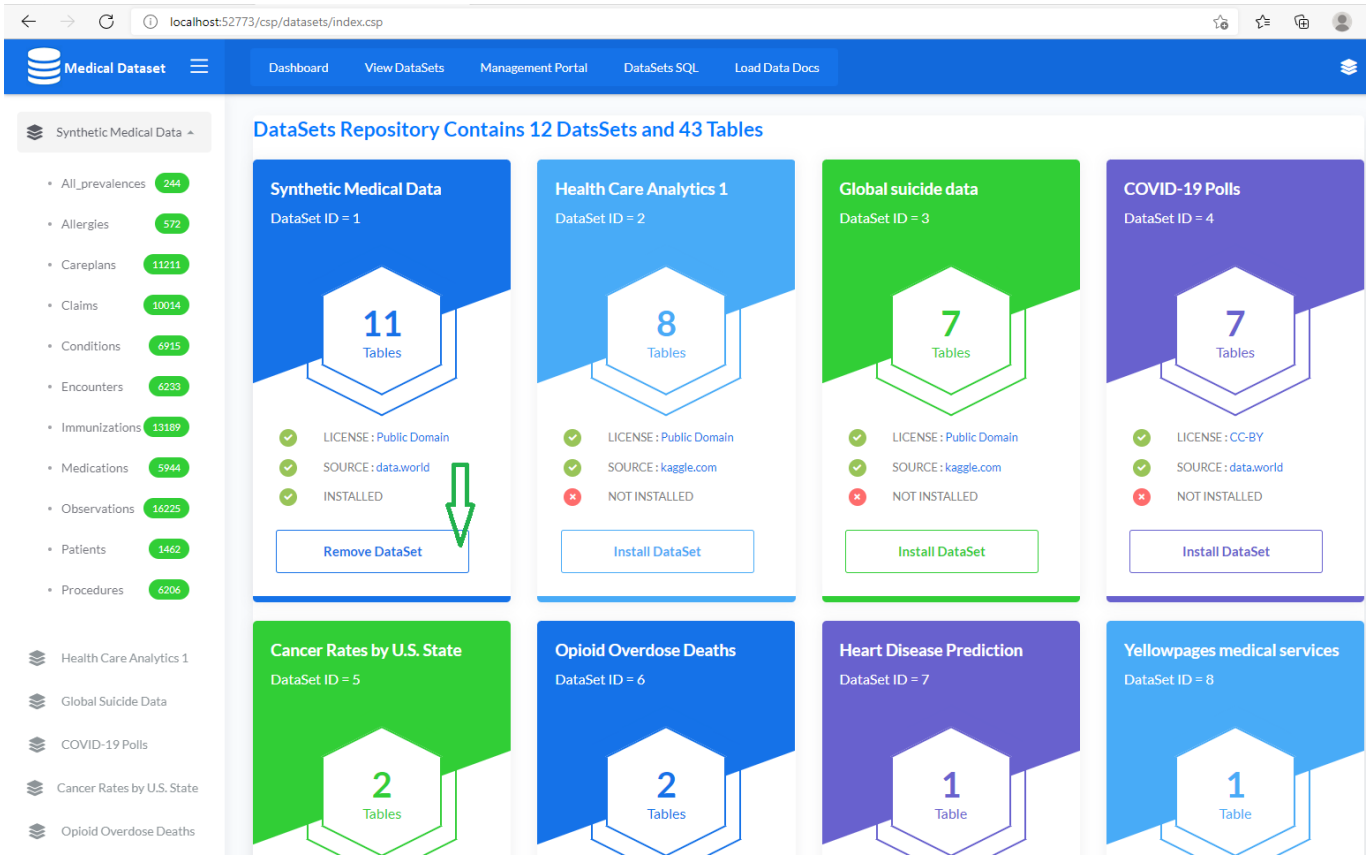
View Data from Web Application

Navigate to http://localhost:52773/csp/datasets/index.csp and click any table from sidebar

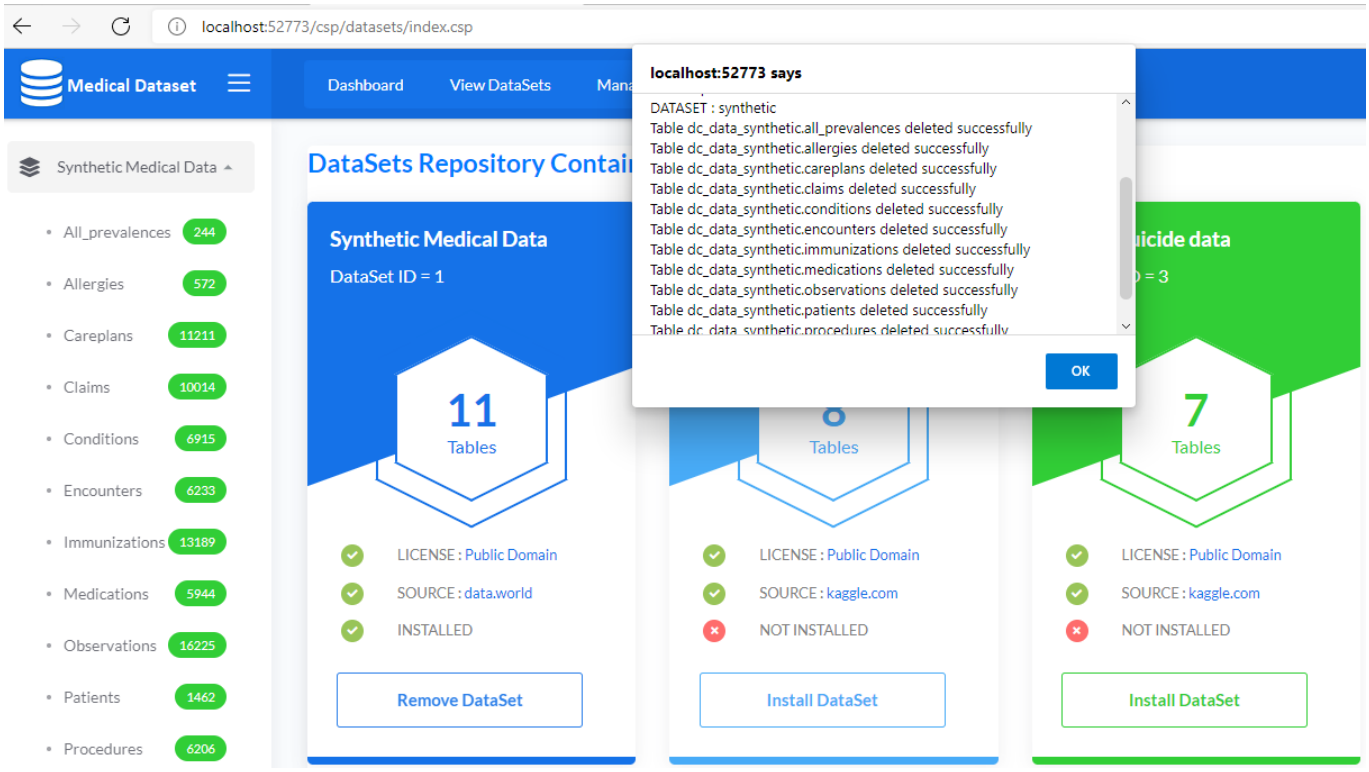


Removing DataSet from Web Application

Navigate to http://localhost:52773/csp/datasets/index.csp **and press Remove DataSet button**



Dataset is removed successfully



Thanks

#Contest #CSP #InterSystems Package Manager (IPM) #InterSystems IRIS
Check the related application on InterSystems Open Exchange

Source URL:https://community.intersystems.com/post/plug-and-play-datasets-objectscript-package-manager-zpm