

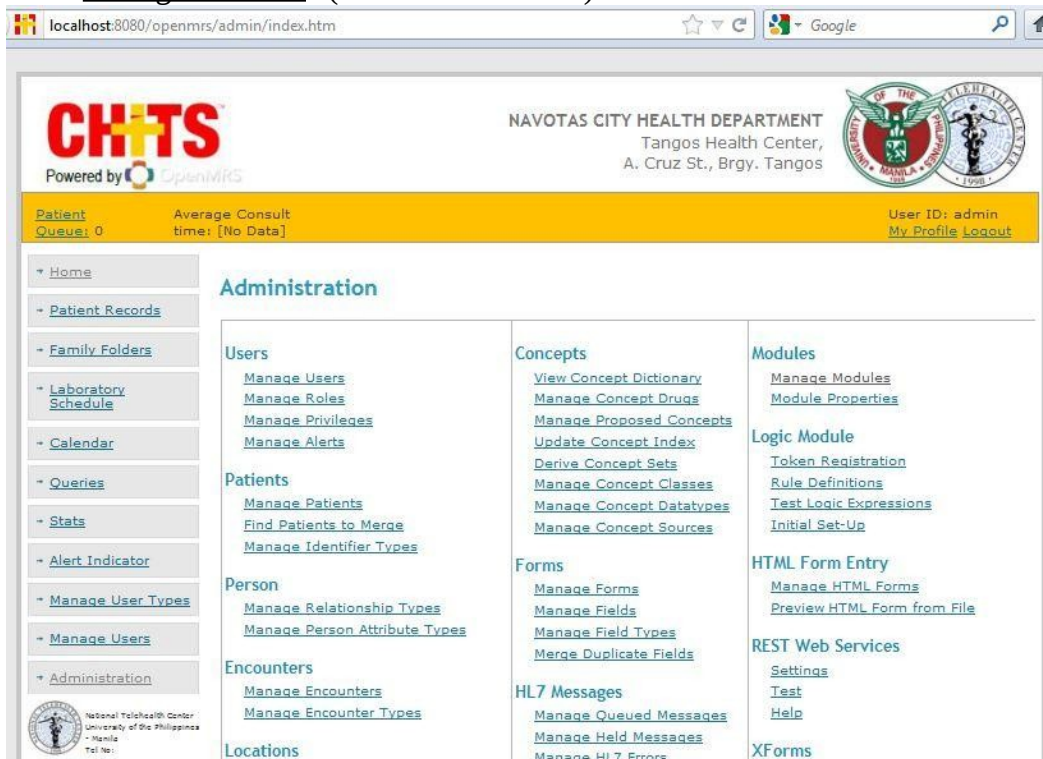


| | |
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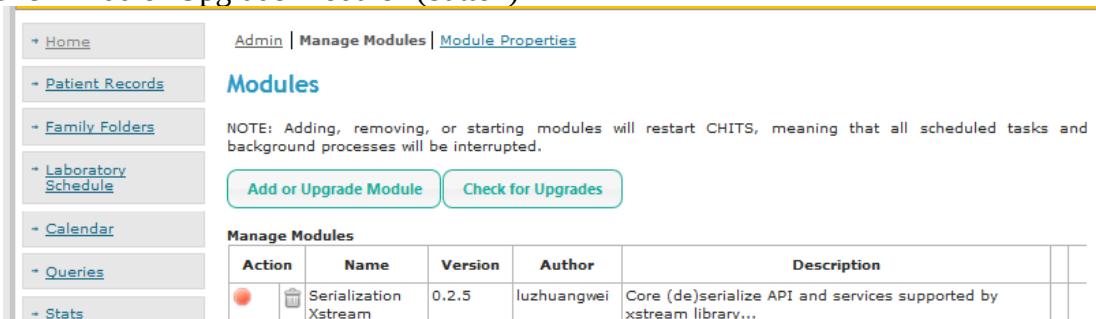
I. BASICS OF THE “DHIS2 REPORTING MODULE”

A. Installing the DHIS2 OMOD:

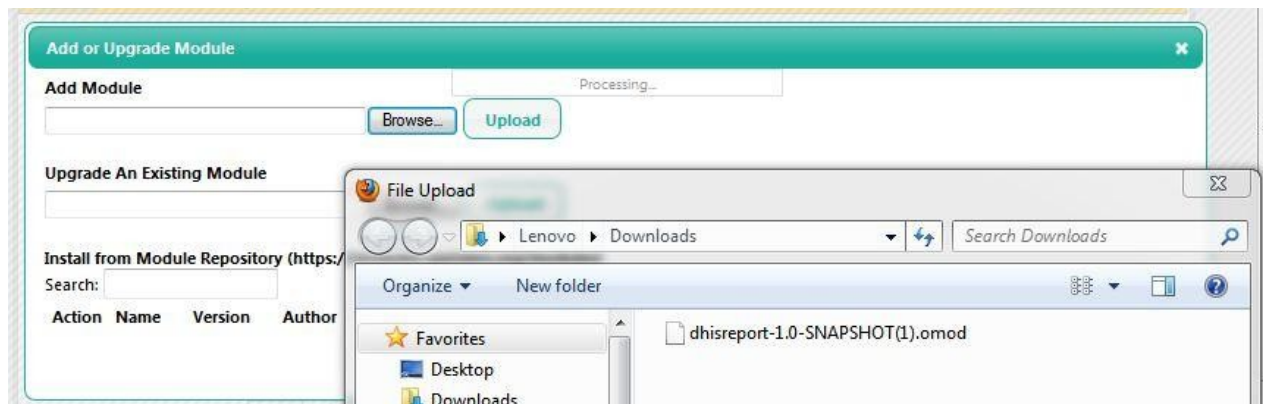
- Make sure you have the following:
 - OpenMRS instance
 - DHIS2 omod: “dhisreport-1.0-SNAPSHOT.omod”
 - DHIS2 URL, Username, Password (for the connection to the DHIS2 server)
 - XML file containing the report definition
- Open the OpenMRS' Administration [tab].
- Select “Manage Modules” (below the Modules).



- Click “Add or Upgrade Module” (button)



- Add the “omod” into the OpenMRS:
 - Click “Browse” under the “Add Module” title
 - Select the ‘dhisreport’ omod file.
 - Click “Upload” (button).



6. Once loaded, the “DHIS2 Reporting Module” will be found in the Manage Modules table.

Module loaded and started successfully
[Admin](#) | [Manage Modules](#) | [Module Properties](#)

Modules

NOTE: Adding, removing, or starting modules will restart CHITS, meaning that all scheduled tasks and background processes will be interrupted.

[Add or Upgrade Module](#) [Check for Upgrades](#)

Manage Modules

| Action | Name | Version | Author | Description |
|--------|------------------------|--------------|--------------------|--|
| | Serialization Xstream | 0.2.5 | luzhuangwei | Core (de)serialize API and services supported by xstream library... |
| | Logic Module | 0.5 | OpenMRS | ... |
| | CHITS Patient Module | 1.1.8 | ManilaSoft | CHITS Patient Module for implementation specific needs... |
| | Reporting | 0.6.1 | Partners In Health | The Reporting Module provides a user interface for defining and managing core objects like reports, data sets, cohort queries, indicators, dimensions, and report designs. The module also provid... |
| | HTML Form Entry | 1.7.3 | Darius Jazayeri | FormEntry in-webapp, using HTML forms... |
| | Rest Web Services | 0.8.21639 | OpenMRS | Publishes Rest Web Services exposing the OpenMRS API... |
| | DHIS2 Reporting Module | 1.0-SNAPSHOT | Bob Jolliffe | Posts aggregate reports to dhis2 based on dataelements bound to sql queries... |

7. Going back to the “Administration” (tab), you will be able to see the “DHIS2 Reporting Module”.

| | | |
|--|--|--|
| | | Manage Report Definitions Report Definitions Data Set Definitions Indicator Definitions Dimension Definitions Cohort Queries Report Designs Scheduled Reports DHIS2 Reporting Module Manage module |
|--|--|--|

B. Starting with the DHIS2 Report Module

1. Open the OpenMRS’ “Administration” (tab)
2. Click the “[Manage module](#)” under the listed “DHIS2 Reporting Module”.

| | | |
|--|--|---|
| | | Manage Report Definitions Report Definitions Data Set Definitions Indicator Definitions Dimension Definitions Cohort Queries Report Designs Scheduled Reports DHIS2 Reporting Module Manage module |
|--|--|---|

3. There would be three options available:
 - a. **Import/Export report definitions’ “[link](#)”** - to upload the xml file to create the report definition.
 - b. **Configure DHIS2 connection’s “[link](#)”** - to set the URL and username/password to access the DHIS2 server.
 - c. **Reports’ “[link](#)”** - to show the available reports;
 - will only display those defined from the “Import/Export report definitions” “[link](#)”

| Home Patient Records Family Folders Laboratory Schedule | Admin Manage module DHIS2 Reporting Module <table> <tr> <th>Action</th><th>Link</th></tr> <tr> <td>Import/Export report definitions</td><td>link</td></tr> <tr> <td>Configure DHIS2 connection</td><td>link</td></tr> <tr> <td>Reports</td><td>link</td></tr> </table> | Action | Link | Import/Export report definitions | link | Configure DHIS2 connection | link | Reports | link |
|--|---|--------|------|----------------------------------|----------------------|----------------------------|----------------------|---------|----------------------|
| Action | Link | | | | | | | | |
| Import/Export report definitions | link | | | | | | | | |
| Configure DHIS2 connection | link | | | | | | | | |
| Reports | link | | | | | | | | |

4. Usually, the flow would be:
 - (1) Import report definitions (uploading the customized xml file that will handle the data messages)
 - (2) Configure DHIS2 connection (setting the connection to the DHIS2 server, so the uploaded xml file will be sent to the DHIS2 instance). You may also opt to set the connection first before uploading the xml.
 - (3) Reports (to view and check the reports generated in the DHIS2 instance).
 Although the step-by-step will be discussed later.

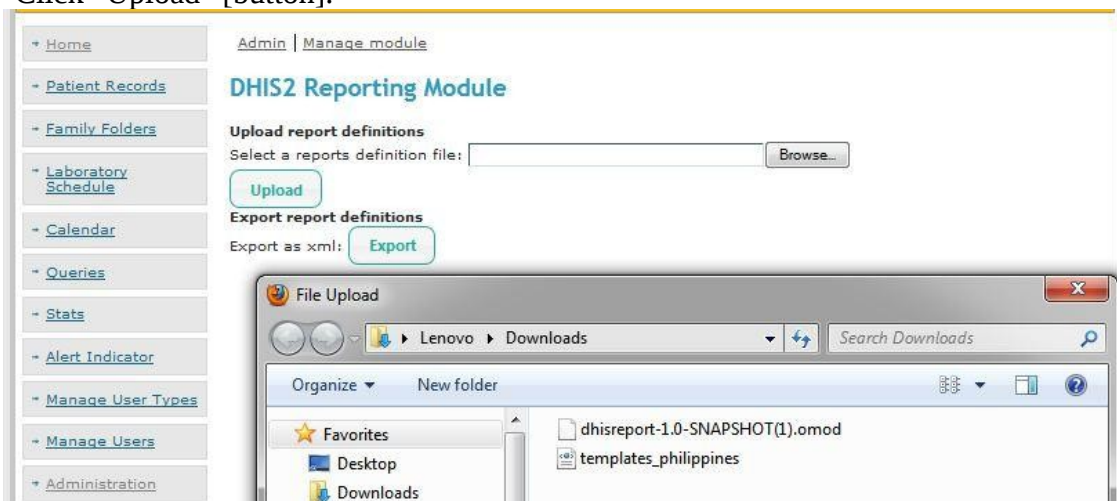
II. FEATURES OF THE “DHIS2 REPORTING MODULE”

A. Importing the Report Definitions

1. Go to the DHIS2 Reporting Module. [DHIS2 Reporting Module>Manage module]
2. Click the “Import/Export report definitions’ “[link](#)”.



3. Upload the XML file:
 - (a) Click “Browse” [button].
 - (b) Select the xml file to be uploaded. i.e. templates_philippines.xml
 - (c) Click “Upload” [button].



B. Configuring the DHIS2 Connection

1. Go to the DHIS2 Reporting Module. [DHIS2 Reporting Module>Manage module]
2. Click the “Configure DHIS2 connection” “[link](#)”.



3. Set the connection to the DHIS2 server:
 - (a) Enter the needed URL, your username and password .
 - (b) Click “Save” [button].

| Parameter | Value |
|--|---------------------------------|
| Base DHIS2 URL (eg: http://apps.dhis2/demo) | http://106.187.93.155:8080/phic |
| User name | cceblano |
| Password | ***** |
| <input type="button" value="Save"/> | |

C. Reports: Preview

1. Go to the DHIS2 Reporting Module. [DHIS2 Reporting Module>Manage module]
2. Click the “Reports” “[link](#)”.

| Action | Link |
|----------------------------------|----------------------|
| Import/Export report definitions | link |
| Configure DHIS2 connection | link |
| Reports | link |

3. Click the “[link](#)” (of the created form).
i.e. [link](#) of the PCB Form A2

| Report Definition | Link | Edit | Delete |
|-------------------|----------------------|----------------------|------------------------|
| PCB Form A2 | Link | Edit | Delete |

Note: If you follow the steps in “Importing the Report Definitions” with a valid xml file, you should be able to view the table for that particular report form.
(i.e. importing the file of “template_philippines.xml” will generate the “PCB Form A2” link)

4. Fill-up the parameters of the report to be generated:
 - (a) Enter the date for that report. Optional: The default action is “Preview”.
 - (b) Click Generate.

Home | Admin | Manage module

DHIS2 Reporting Module

Report Definition for PCB Form A2

| | |
|--|-------------------------|
| Location | PHP00000000000000000000 |
| Date (e.g 2012-03-01 for month, 2012-W03 for weekly) | 2012-04-03 |
| | Post to DHIS |
| Generate | |

Warning: If you are unable to change the location and it is displayed as “Unknown Location” or any default location. Then, your OpenMRS database may not contain the needed value for the `location.name` . In that case, although you will be able to preview the report result, you will not be able to import the data to the DHIS2.

Home | Admin | Manage module

DHIS2 Reporting Module

Report Definition for PCB Form A2

| | |
|----------------------|------------------|
| Location | Unknown Location |
| Date (eg 2012-03-01) | 2012-04-03 |
| | Post to DHIS |
| Generate | |

Solution:

If you encounter this problem, check the code of the preferred “Organizational Unit” (i.e. Philippines) in the DHIS2 instance.

Use that code (i.e. 12345678) to update the OpenMRS database’ `location` [table] `name` in one of the `location_id`.

(The step-by-step with screenshot will be shown in the last part of this document.)

(c) The details and status of the report will be displayed. Note that since you merely selected the “Preview”, the data will not yet be passed to the actual DHIS2 server.

D. Reports: Post to DHIS

1. Go to the DHIS2 Reporting Module. [DHIS2 Reporting Module>Manage module]
2. Click the “Reports” “[link](#)”.



3. Click the “[link](#)” (of the created form).
i.e. [link](#) of the PCB Form A2



Note: If you follow the steps in “Importing the Report Definitions” with a valid xml file, you should be able to view the table for that particular report form.
(i.e. importing the file of “template_philippines.xml” will generate the “PCB Form A2” link)

4. Fill-up the form to “Post to DHIS” the report
 - (a) Enter the date for that report. Optional: Select the location and the action; the default location is “Unknown Location” and the action is “Preview”.
 - (b) Instead of preview, change the action to “Post to DHIS”.
 - (c) Click “Generate” (tab).

Warning: If the configuration to connect to the server is wrong, an error will be displayed.



Result: if you successfully imported the xml file, the details and status of the report will be displayed.

[Home](#)
[Patient Records](#)
[Family Folders](#)
[Laboratory Schedule](#)
[Calendar](#)
[Queries](#)
[Stats](#)
[Alert Indicator](#)

[Admin](#) | [Manage module](#)

DHIS2 Reporting Module

Report result

| | |
|----------|-----------------------|
| DataSet: | A2 |
| OrgUnit: | PHP000000000000000000 |
| Period: | 201204 |

Data Element: HXHPN, Value: 2

| | |
|------------------|---------------------------------------|
| Status: | SUCCESS |
| Description: | Import process completed successfully |
| DataValue count: | [imports=1, updates=0, ignores=0] |

If you repeat the same process that you also imported last time, instead of “imports = 1”, the datavalue count: would only show “updates=1”. Hence, no double entry would happen.

[Home](#)
[Patient Records](#)
[Family Folders](#)
[Laboratory Schedule](#)
[Calendar](#)
[Queries](#)
[Stats](#)
[Alert Indicator](#)

[Admin](#) | [Manage module](#)

DHIS2 Reporting Module

Report result

| | |
|----------|-----------------------|
| DataSet: | A2 |
| OrgUnit: | PHP000000000000000000 |
| Period: | 201204 |

Data Element: HXHPN, Value: 2

| | |
|------------------|---------------------------------------|
| Status: | SUCCESS |
| Description: | Import process completed successfully |
| DataValue count: | [imports=0, updates=1, ignores=0] |

III. GENERATING THE REPORT ON THE DHIS2

A. Login to the DHIS2 Instance

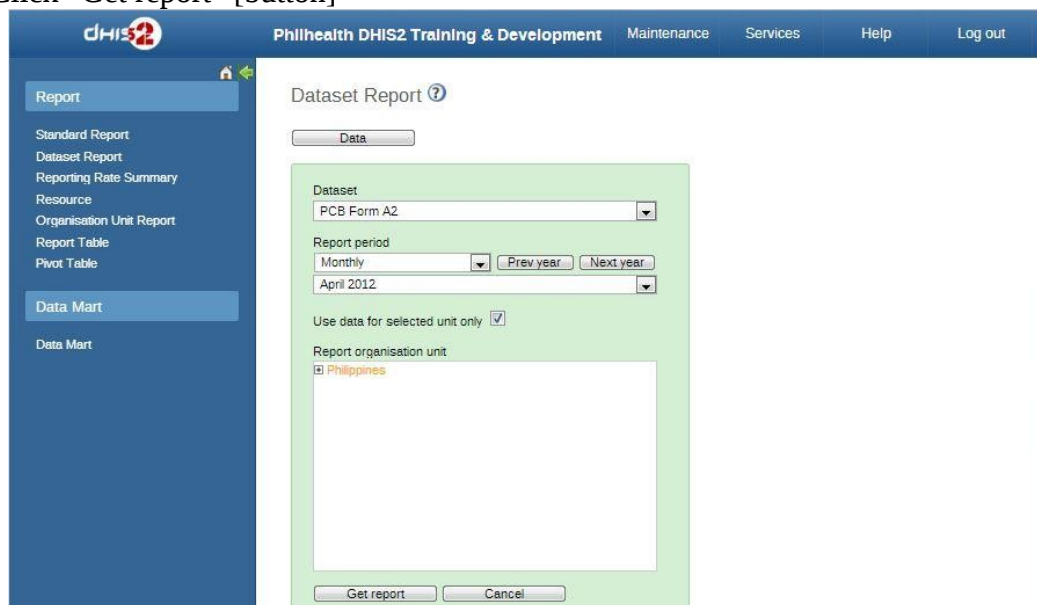
1. Navigate to the DHIS2 site.

2. Login using your username and password for that DHIS2.



B. Generating the Report

1. Go to “Services” (top menu).
2. Select “Reports” (dropdown).
3. Click to “Dataset Report” (left side menu).
4. Fill-up the form to create the “Dataset Report”.
 - (a) Select the Dataset (similar to the <name></name> in the xml file.
 - (b) Report Period (same as the xml’s <periodType>)
 - (c) Specify the data or period; the organization unit. Tick the checkbox if for selected unit only.
 - (d) Click “Get report” [button]



C. View the Generated Report

Report

Standard Report

Dataset Report

Reporting Rate Summary

Resource

Organisation Unit Report

Report Table

Pivot Table

Data Mart

Data Mart

Dataset Report

Data

Reporting unit: Philippines Reporting period: April 2012

Download as Excel

Download as PDF

ANNEX A2

PHILIPPINE HEALTH INSURANCE CORPORATION

PCB PROVIDER CLIENTELE PROFILE

NAME OF HEALTH CARE FACILITY

I. PCB Provider Data

Region

Province

City/Municipality

No. of assigned families:

SP - NHTS:

SP - LGU:

SP - NGA:

SP - Private:

IPP - OG:

IPP - ORW:

Non-PHIC Members:

II. Age - Sex Distribution

Age Group

Members and Dependents

Male

Female

Total

0 - 1 years

2 - 5 years

6 - 15 years

16 - 24 years

25 - 59 years

60 years and above

TOTAL

| III. Primary Preventive Services | # Members and Dependents | |
|----------------------------------|--------------------------|------------|
| | Member | Dependents |
| Breast Cancer Screening | | |
| Female, 25 years old and above | | |
| Cervical Cancer Screening | | |
| Female, 25 to 65 years old | | |
| with intact uterus | | |

| IV. Diabetes Mellitus | # of Members and Dependents | | | | | |
|------------------------------------|-----------------------------|---|-----------|---|-------|---|
| Cases | Member | | Dependent | | Total | |
| | M | F | M | F | M | F |
| with symptoms/signs of polyuria, | | | | | | |
| polydipsia, weight loss | | | | | | |
| Waist circumference | | | | | | |
| ≥ 80 cm (female) | | | | | | |
| ≥ 90 cm (male) | | | | | | |
| History of diagnosis of diabetes | | | | | | |
| Intake of oral hypoglycemic agents | | | | | | |

| V. Hypertension | # of Members and Dependents | | | | | |
|--------------------------------------|-----------------------------|--------------|------------|--------------|----------|-------|
| Cases | Members | | Dependents | | | Total |
| | Male | Female | Male | Female | | |
| | | Non Pregnant | Pregnant | Non Pregnant | Pregnant | |
| Adult with BP < 140/90 mmHg | | | | | | |
| Adult with BP ≥ 140/90 | | | | | | |
| but less than 180/120mmHg | | | | | | |
| Adult with BP > 180/120 mmHg | | | | | | |
| History of diagnosis of hypertension | 2 | | | | | |
| Intake of hypertension medicine | | | | | | |

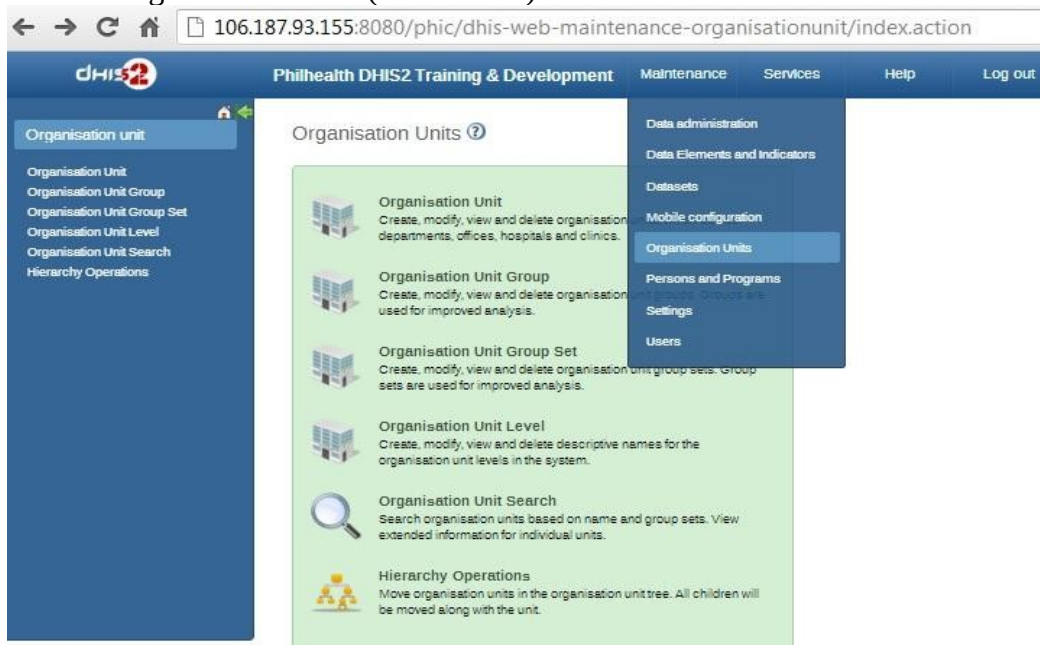
Successful: The aggregated data (report result of 2) from the database is now reflected in the DHIS2 “Dataset Report”. (i.e. exactly displayed on the cell for the data element of “history of diagnosis of hypertension” and the disaggregation of “male, uncategorized, member” as defined in the xml)

<Note that 2 is really the result from the database query, since it’s just a sample.>

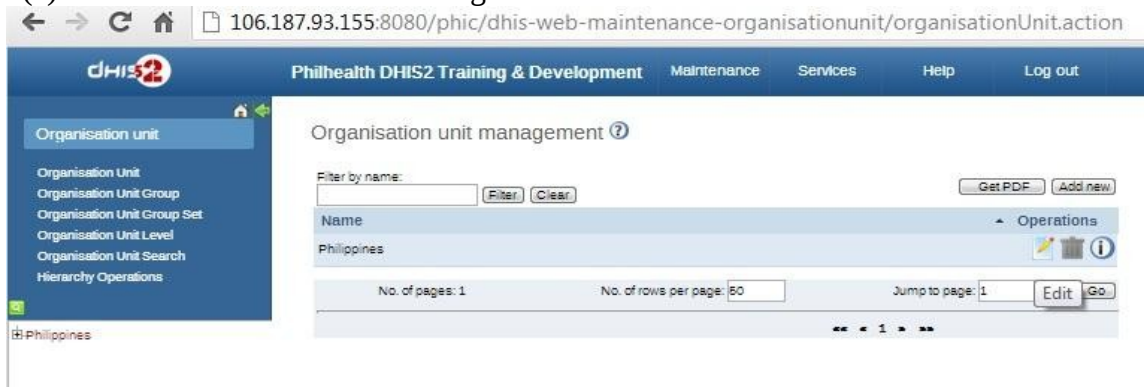
IV. SETTING THE OPENMRS’ LOCATION AND DHIS2’s ORGANISATION UNIT

A. Getting the code of the Organisational Unit

1. Navigate to the DHIS2.
2. Go to “Maintenance” (top menu).
3. Select “Organisation Units” (dropdown).
4. Click to “Organisation Unit” (central area).



5. Select the organization unit by:
 - (a) Use the Left menu's expanding list to display your preferred organisation unit (i.e. + Philippines [left menu])
<use the + or - to display of the hierarchy of the existing organisation units)
 - (b) Optional: Double click that particular organization unit [left menu]
 - (c) Click the “edit icon” of that organisation unit.



6. Copy the value of the “Code” in the “Edit Organisation Unit” section [central area].

Philhealth DHIS2 Training & Development

Maintenance Services Help Log out

Edit organisation unit ?

Details

Name * Philippines

Short name * Philippines

Description

Code PHP00000000000000000000

Opening date *

B. Setting the Location in the OpenMRS Database

1. Open your OpenMRS database

| location_id | name | description | address1 | address2 | city_village | state_province | postal_code | country | latitude | longitude | creator | date_created | county_district |
|-------------|-------------------------|-------------|----------|----------|--------------|----------------|---------------|-----------------|----------|-----------|---------|---------------------|-----------------|
| 1 | PHP00000000000000000000 | | | | | | | Philippines | NULL | NULL | 1 | 2005-09-22 00:00:00 | |
| address3 | address6 | address5 | address4 | retired | retired_by | date_retired | retire_reason | parent_location | uuid | | | | |
| | | | | 0 | NULL | NULL | NULL | NULL | | | | | |

```
mysql -u root -p
SHOW DATABASES;
USE openmrs;
UPDATE location SET name = 12345678 WHERE location_id = 1
// or whatever name and location_id you wish to update
you should also insert other location for each organizational units.
```

Note: Make sure that your obs table has location_id that is available in the location table.

V. CREATING/CUSTOMIZING THE XML FILE

The xml file should be available or made even before anything else.
The sample format:

```
<?xml version="1.0"?>
<reportTemplates xmlns:d2="http://dhis2.org/schema/dxf/2.0">

    <dataElements>
        <dataElement uid="nk0lqRCq8J9" code="HXHPN" name="hx_hypertension"
type="int"/>
    </dataElements>

    <disaggregations>
        <disaggregation uid="Gb0BGTbfg19" code="Gb0BGTbfg19"
name="male_uncategorized_member"/>
    </disaggregations>

    <reportTemplate>
        <name>PCB Form A2</name>
        <uid>bazOE3Zgw80</uid>
        <code>A2</code>
        <periodType>Monthly</periodType>
        <dataValueTemplates>
            <dataValueTemplate dataElement="HXHPN" disaggregation="Gb0BGTbfg19">
                <annotation>
                    select count(distinct p.person_id)
                    from person p
                    inner join obs o on o.person_id = p.person_id
                    where p.voided = 0 and o.voided = 0
                    and o.concept_id = 31
                    and o.obs_datetime >= :startOfPeriod
                    and o.obs_datetime &lt;= :endOfPeriod
                    and o.location_id = :locationId
                </annotation>
            </dataValueTemplate>
        </dataValueTemplates>
    </reportTemplate>
</reportTemplates>
```

Note that the DHIS2 report XML code has:

- 1 - xml version <?xml version="1.0"?>
- 2 - reportTemplates <reportTemplates xmlns:d2="http://dhis2.org/schema/dxf/2.0">
 </reportTemplates>

The reportTemplates is divided into three: (1) dataElements, (2) disaggregations, and (3) reportTemplate.

1 - dataElements (list all the needed "data elements" like "history of diagnosis of hypertension";

```
<dataElements>
    <dataElement uid="nk0lqRCq8J9"
code="HXHPN" name="hx_hypertension" type="int"/>
</dataElements>
```

| | |
|--|---|
| there may be several dataElement inside the dataElements) | |
| 2 - disaggregation (list all the needed “category optioncombos” or “categorycombos” like “male_uncategorized_member”; there may be multiple disaggregation tag inside the disaggregations) | <pre> <disaggregations> <disaggregation uid="Gb0BGTbfg19" code="Gb0BGTbfg19" name="male_uncategorized_member"/> </disaggregations> </pre> |
| 3 - reportTemplate (may have multiple entries, depending on the number of different types of reports needed to be produced) 3.1 - name 3.2 - uid 3.3 - code 3.4 - periodType 3.5 - dataValueTemplates 3.5.1 - dataValueTemplate 3.5.2 - annotation | <pre> <reportTemplate> <name>PCB Form A2</name> <uid>bazOE3Zgw80</uid> <code>A2</code> <periodType>Monthly</periodType> <dataValueTemplates> <dataValueTemplate dataElement="HXHPN" disaggregation="Gb0BGTbfg19"> <annotation> select count(distinct p.person_id) from person p inner join obs o on o.person_id = p.person_id where p.voided = 0 and o.voided = 0 and o.concept_id = 31 and o.obs_datetime >= :startOfPeriod and o.obs_datetime <= :endOfPeriod and o.location_id = :locationId </annotation> </dataValueTemplate> </dataValueTemplates> </reportTemplate> </pre> |

Legend:

red = entity or attribute that needs to be changed depending on the specified data for the a DHIS2 report

A. Preparing the required data elements

1. Go to: <dhis2site>/api/dataElements
i.e. localhost:8080/phic/api/dataElements
2. Search for the data element you need from the displayed list.
3. Click the html opposite the data element preferred.

| | | | | |
|--|----------------------|---------------------|----------------------|-----------------------|
| 106.187.93.155:8080/phic/api/dataElements | | | | |
| Page 1 / 2 Next Page | | | | |
| DataElements | | | | |
| Adult with BP >= 140/90 but less than 180/120 mmHg | html | xml | json | jsonp |
| Adult with BP < 140/90 mmHg | html | xml | json | jsonp |
| Adult with BP > 180/120 mmHg | html | xml | json | jsonp |
| Age 0 - 1 years | html | xml | json | jsonp |

4. Assign the value of the id, code, and type of that data set (based on the html shown) to the xml attributes.

| | |
|---|------------------------------|
| 106.187.93.155:8080/phic/api/dataElements/nkOlqRCq8J9 | |
| History Of Diagnosis Of Hypertension | |
| ID | nkOlqRCq8J9 |
| Last Updated | 2012-10-11T15:54:45.120+0000 |
| Code | HXHPN |
| Short Name | Hx of Dx of HPN |
| Type | int |
| Zero is Significant | true |
| Active | true |
| Aggregation Operator | sum |
| Domain Type | aggregate |

For instance, for the history of hypertension: the uid (ID) would be “nkOlqRCq8J9”; the code would be “HXHPN”; the name may be “history of diagnosis of hypertension” (you may also shorten the name); and the type would be “int”.

5. Follow the format of the existing DHIS2 report xml by changing the values in red color. Thus, in the xml code, the format would be:

```
<dataElements>
  <dataElement uid="nkOlqRCq8J9" code="HXHPN" name="hx_hypertension" type="int" />
</dataElements>
```

6. If you would like to add more data element, simply add another <dataElement ... /> inside the <dataElements>.

```
<dataElements>
  <dataElement uid="nkOlqRCq8J9" code="HXHPN" name="hx_hypertension" type="int"/>
  <dataElement uid="<id>" code="<code>" name="<name>" type="<type>"/>
</dataElements>
```

B. Preparing the required disaggregations

- Go to: <dhis2site>/api/categoryOptionsCombos
or <dhis2site>/api/categoryCombos or
<dhis2site>/api/categoryOptions
i.e. localhost:8080/phic/api/categoryOptionCombos
- Search for the disaggregation that you need.
- Click the html opposite the data element preferred.

CategoryOptionCombos

| | | | | |
|-------------------------|----------------------|---------------------|----------------------|-----------------------|
| (0 - 1 years, Female) | html | xml | json | jsonp |
| (0 - 1 years, Female) | html | xml | json | jsonp |
| (0 - 1 years, Male) | html | xml | json | jsonp |
| (0 - 1 years, Male) | html | xml | json | jsonp |
| (16 - 24 years, Female) | html | xml | json | jsonp |

4. Assign the value of the id, and code (based on the html shown) of the disaggregation selected to the xml attributes.

(Male, Uncategorized, Member)

| | |
|--------------|------------------------------|
| ID | Gb0BGTbfg19 |
| Last Updated | 2012-07-02T12:13:31.437+0000 |
| Code | |

For instance, for the disaggregation needing that of “male, uncategorized, member”: the uid (ID) would be “Gb0BGTbfg19”. You may simply copy the uid for the code if it is not existing so code will also be “Gb0BGTbfg19” (similar to the pattern for the ‘templates_ethiopia.xml’); the name may be “male_uncategorized_member” (you may also shorten it).

5. Follow the format of the existing DHIS2 report xml by changing the values in red color. Thus, in the xml code, the format would be:

```
<disaggregations>
  <disaggregation uid="Gb0BGTbfg19" code="Gb0BGTbfg19" name="male_uncategorized_member" />
</disaggregations>
```

6. If you would like to add more disaggregation, simply add another <disaggregation ... /> inside the <disaggregations>.

```
<disaggregations>
  <disaggregation uid="Gb0BGTbfg19" code="Gb0BGTbfg19" name="male_uncategorized_member" />
  <disaggregation uid="<uid>" code="<code>" name="<name>" />
</disaggregations>
```

C. Formulating the reportTemplate

1. Go to: <dhis2site>/api/dataSets
2. Search for the dataSet that you need.
3. Click the html opposite the data element preferred.

Page 1 / 1

DataSets

| | | | | |
|--------------------------------|----------------------|---------------------|----------------------|-----------------------|
| Immunizaton dataset | html | xml | json | jsonp |
| PCB Form A2 | html | xml | json | jsonp |
| PCB Form A4 | html | xml | json | jsonp |
| PCB Provider Clientele Profile | html | xml | json | jsonp |
| PHIC OPB Reporting | html | xml | json | jsonp |

4. Assign the value of the id, and code (based on the html shown) of the reportTemplate for the xml file.

| | |
|---|------------------------------|
| 106.187.93.155:8080/phic/api/dataSets/bazOE3Zgw8O | |
| PCB Form A2 | |
| ID | bazOE3Zgw8O |
| Last Updated | 2012-10-11T17:59:36.479+0000 |
| Code | A2 |
| Short Name | |
| Expiry Days | 0 |
| Version | 12 |
| Mobile | true |

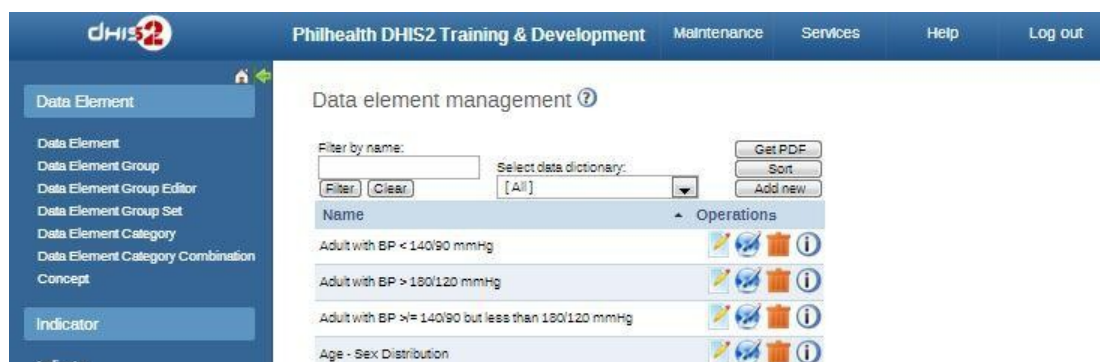
For instance, for the reportTemplate of “PCB Form A2”: the <name> would be “PCB Form A1” , <uid> (ID) would be “bazOE3Zgw8O”, <code> (code) would be A2.

IMPORTANT: The “Code” for the Dataset is required!! (unlike in the disaggregate or CategoryOptionCombo). Thus, if there is no existing code yet, you need to enter a new code for that dataset by editing it in the dataelement.

- Go to DHIS2
- Click the Maintenance [top menu]
- Select the Data Elements and Indicators [dropdown]
- Click the Data Element [central area]



e. Edit Icon of the needed data element (i.e. Age - Sex Distribution edit icon)



f. Enter the new code, which will then be used for (and reflected in) the dataset.

g. Click Save.

Philhealth DHIS2 Training & Development Maintenance Services

Edit data element

Details

Name * Age - Sex Distribution

Short name Age - Sex Distribution

Alternative name

Code ASDIS ✓

Description

Form name

Active * Yes

Domain Type * Aggregate

Value Type * Number

Number type Integer

Store Zero Data Value Yes

Aggregation operator * Sum

URL

Combination of categories * agegroup_gender_combo

Aggregation levels

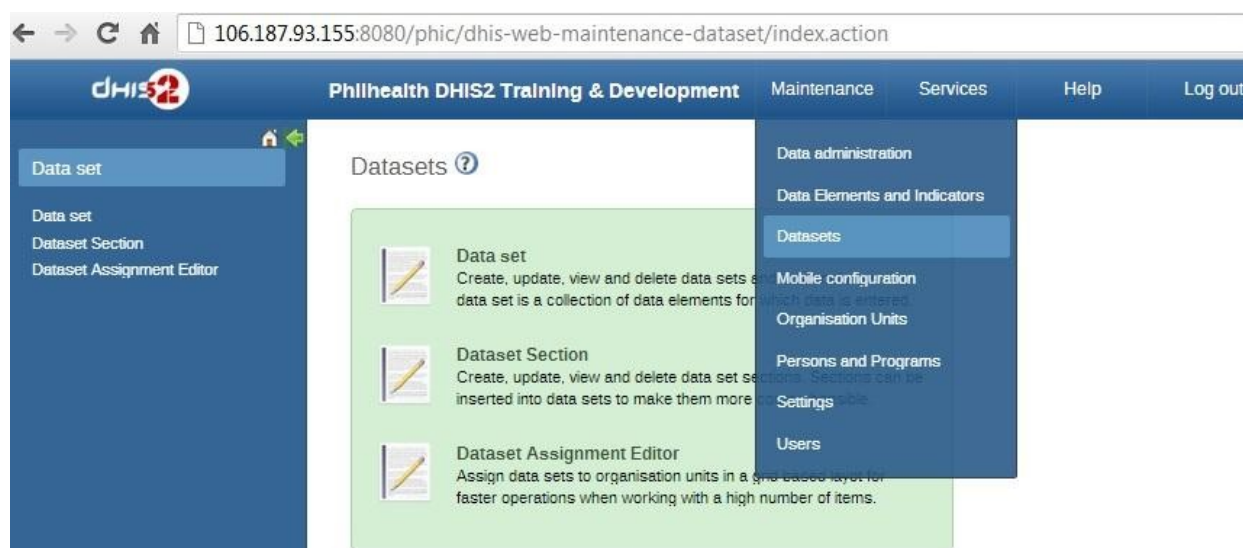
Option set [Please select]

Save Cancel

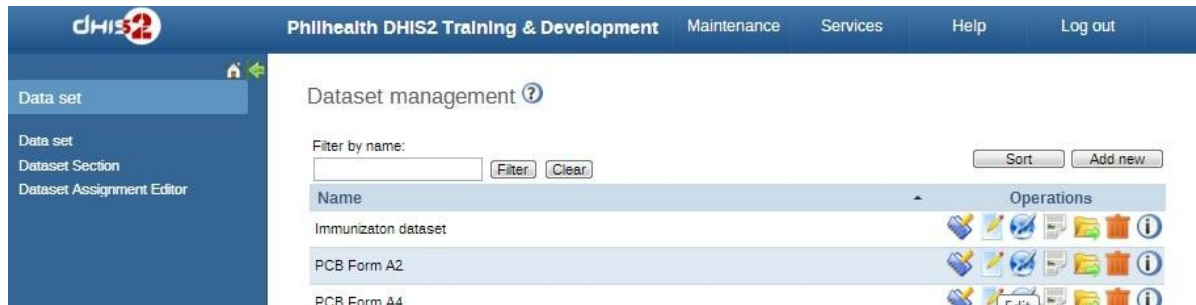
5. To check for the <periodType>, you need to go to the DHIS2 > Maintenance > Dataset > Edit Datasets

(a) Navigate to the DHIS2 site.

(b) Select the “Maintenance” (top menu) > “Datasets” (dropdown) > “Data set” (central area)



(c) Click the “edit” (icon) for the preferred dataset (i.e. edit for PCB Form A2)



- (d) Assign the value for the “Frequency” to the <periodType>.
 Actually, the name, and the code can also be found here. However the edit dataset does not contain the “id”.

Hence, for the reportTemplate of the “PCB Form A2”: the <name> (“Name”) would be “PCB Form A2”, uid would be “baz0E3Zgw80”, the <code> (“Code”) would be “A2”, and the <periodType> (“Frequency”) would be “Monthly”.

6. For the <dataValueTemplate>, you will need to set the value of the dataElement and disaggregation similar to the “code” of the required dataset and the disaggregation respectively (which are already declared in the upper part of the xml file).

From previous example, the code for the dataset “history of hypertension” is “HXHPN”, and the code for the disaggregation/categoryOptionCombo “male, uncategorized, member” is “Gb0BGTbf919”.

7. For the annotation, this would pertain to the SQL query you want from the OpenMRS database.
 Here, the mapping of the OpenMRS’ concept with the DHIS2’s data set would play an important role.

For example, since your dataset specified is “history of diagnosis of hypertension”

```
select count(distinct p.person_id)
from person p
inner join obs o on o.person_id = p.person_id
where p.voided = 0 and o.voided = 0
and o.concept_id = 31
and o.obs_datetime >= :startOfPeriod
and o.obs_datetime <= :endOfPeriod
and o.location_id = :locationId
```

depending on your needed sql query statement, you may also add other conditions like... AND

```
o.value_numeric >= 140
```

8. Follow the format of the existing DHIS2 report xml by changing the values in red color. Thus, in the xml code, the format would be:

```
<reportTemplate>
  <name>PCB Form A2</name>
  <uid>bazOE3Zgw8O</uid>
  <code>A2</code>
  <periodType>Monthly</periodType>
  <dataValueTemplates>
    <dataValueTemplate dataElement="HXHPN" disaggregation="Gb0BGTbfg19">
      <annotation>
        select count(distinct p.person_id)
        from person p
        inner join obs o on o.person_id = p.person_id
        where p.voided = 0 and o.voided = 0
        and o.concept_id = 31
        and o.obs_datetime >= :startOfPeriod
        and o.obs_datetime &lt;= :endOfPeriod
        and o.location_id = :locationId
      </annotation>
    </dataValueTemplate>
  </dataValueTemplates>
</reportTemplate>
```

VI. MORE XML SAMPLES

A. ONE REPORT WITH TWO DATA VALUE TEMPLATES

Example:

--- PCB FORM A2 --

1. dataElement: History Of Diagnosis Of Hypertension (integer)
nkOlqRCq8J9
categoryOptionCombo: Male, Uncategorized, Member
Gb0BGTbfg19
2. dataElement: Age - Sex Distribution (integer)
nkOlqRCq8J9
categoryOptionCombo: 0 - 1 Years, Female

```

<?xml version="1.0"?>
<reportTemplates xmlns:d2="http://dhis2.org/schema/dxf/2.0">

    <dataElements>
        <dataElement uid="nk0lqRCq8J9" code="HXHPN" name="hx_hypertension"
type="int"/>
        <dataElement uid="NCq15lhqnuo" code="ASDIS" name="age_sex_distribution"
type="int"/>
    </dataElements>

    <disaggregations>
        <disaggregation uid="Gb0BGTbfg19" code="Gb0BGTbfg19"
name="male_uncategorized_member"/>
        <disaggregation uid="hg8g7zrmTun" code="hg8g7zrmTun"
name="zero_one_years_female"/>
    </disaggregations>

    <reportTemplate>
        <name>PCB Form A2</name>
        <uid>bazOE3Zgw80</uid>
        <code>A2</code>
        <periodType>Monthly</periodType>
        <dataValueTemplates>
            <dataValueTemplate dataElement="HXHPN" disaggregation="Gb0BGTbfg19">
                <annotation>
                    select count(distinct p.person_id)
                    from person p
                    inner join obs o on o.person_id = p.person_id
                    where p.voided = 0 and o.voided = 0
                    and o.concept_id = 31
                    and o.obs_datetime >= :startOfPeriod
                    and o.obs_datetime <= :endOfPeriod
                    and o.location_id = :locationId
                </annotation>
            </dataValueTemplate>
            <dataValueTemplate dataElement="ASDIS" disaggregation="hg8g7zrmTun">
                <annotation>
                    select count(distinct p.person_id)
                    from person p
                    inner join obs o on o.person_id = p.person_id
                    where p.voided = 0 and o.voided = 0
                    and o.concept_id = 28
                    and o.obs_datetime >= :startOfPeriod
                    and o.obs_datetime <= :endOfPeriod
                    and o.location_id = :locationId
                </annotation>
            </dataValueTemplate>
        </dataValueTemplates>
    </reportTemplate>
</reportTemplates>

```

REPORTS: PREVIEW

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DHIS2 Reporting Module

Report result

| | |
|----------|-----------------------|
| DataSet: | A2 |
| OrgUnit: | PHP000000000000000000 |
| Period: | 201204 |

Data Element: ASDIS, Value: 2

Data Element: HXHPN, Value: 2

REPORTS: POST TO DHIS

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[Manage User Types](#)

[Admin](#) | [Manage module](#)

DHIS2 Reporting Module

Report result

| | |
|----------|-----------------------|
| DataSet: | A2 |
| OrgUnit: | PHP000000000000000000 |
| Period: | 201204 |

Data Element: ASDIS, Value: 2

Data Element: HXHPN, Value: 2

| | |
|------------------|---------------------------------------|
| Status: | SUCCESS |
| Description: | Import process completed successfully |
| DataValue count: | [imports=1, updates=1, ignores=0] |

REPORTS: DHIS2

| | Member | Dependents | |
|--------------------------------|--------|------------|--|
| Breast Cancer Screening | | | |
| Female, 25 years old and above | | | |
| Cervical Cancer Screening | | | |
| Female, 25 to 65 years old | | | |
| with intact uterus | | | |

| IV. Diabetes Mellitus | # of Members and Dependents | | | | | |
|--------------------------------------|-----------------------------|--------------|------------|--------------|----------|-------|
| Cases | Member | | Dependent | | Total | |
| | M | F | M | F | M | F |
| with symptoms/signs of polyuria, | | | | | | |
| polydipsia, weight loss | | | | | | |
| Waist circumference | | | | | | |
| ≥ 80 cm (female) | | | | | | |
| ≥ 90 cm (male) | | | | | | |
| History of diagnosis of diabetes | | | | | | |
| Intake of oral hypoglycemic agents | | | | | | |
| | | | | | | |
| V. Hypertension | # of Members and Dependents | | | | | |
| Cases | Members | | Dependents | | | Total |
| | Male | Female | Male | Female | Total | |
| | | Non Pregnant | Pregnant | Non Pregnant | Pregnant | |
| Adult with BP < 140/90 mmHg | | | | | | |
| Adult with BP ≥ 140/90 | | | | | | |
| but less than 180/120mmHg | | | | | | |
| Adult with BP ≥ 180/120 mmHg | | | | | | |
| History of diagnosis of hypertension | 2 | | | | | |
| Intake of hypertension medicine | | | | | | |

Successful: The aggregated data are now reflected in the DHIS2 “Dataset Report”.

(i.e. exactly displayed on the cell for the ff.:

1. data element of “Age - Sex Distribution” and the disaggregation of “0 - 1 Years, Female”
2. data element of “history of diagnosis of hypertension” and the disaggregation of “male, uncategorized, member” as defined in the xml)