

3.1.1 Activity: Validation rules, value types, and data set completion

Overview

In this exercise, you will enter data in DHIS2 using the Data Entry app, use the run validation button and complete a data set.

Instructions

The screenshot shows the DHIS2 Aggregate Fundamentals V2 Data Entry interface. On the left is a sidebar with a tree view of the organizational structure, including Trainingland, Animal Region, Bird District, and various health centres. The main area is titled 'Data Entry' and contains a form for entering data. The form includes fields for Organisation Unit (Cardinal Hospital Gateway PHC), Data Set (COVID-19 Surveillance (Aggregate)), Period (2022-02-18), and Filter on section (Show all sections). Below these fields is a table for entering data, with columns for different age groups (0-4 years, 5-14 years, 15-24 years, 25-34 years) and rows for various indicators (Number of new confirmed cases, Number of new suspected cases, Number of recovered cases, Number of new deaths). A validation message box is displayed over the table, stating 'Validation Result' with a green checkmark and 'The data entry screen successfully passed validation'. Below the table is a section for 'Cases Tested and Hospitalised' with a table for entering values for 'Number of cases tested' (6) and 'Number of new cases hospitalised' (3).

Image 1 - A data set that has passed validation

1. Value types, validation rules and data set completion:
 - a. Sign in to **DHIS2 Trainingland** using the following **URL**:
 - b. Open the **Data Entry app** from the Apps Menu
 - c. Select your **Dimensions**:
 - i. Select a facility level **Organisation Unit**

- ii. Select a **Data Set** from the dropdown menu
- iii. Select a **Period** of your choice
- d. Enter an **invalid data value** such as **text, characters** or **decimals**. What kind of error message do you receive? What is the required **value type** of the data element?
- e. Use the information provided in the error message to correct the data value.
Enter some additional valid data values in the form in one or more sections
- f. Select the **Run validation** button at the bottom of the data set
- g. Are there any validation errors? Are any of the data values too high or too low for the data elements? What operator is shown in the expression? Use the information provided in the validation results to correct the errors then run the validation again
- h. Once your data set has passed validation, select the **Complete button** to mark the data set complete. A dialog box will appear asking you to confirm the data set is complete, click 'OK'
- i. In order to see the **timestamp**, you will need to reload the data set. Take note of your organisation unit, data set and period so you can easily find your data set again. When you are ready, refresh the page and re-enter the dimensions of the data set. Can you find the timestamp? What information is included in the timestamp?

Explore DHIS2

If you'd like additional practice in DHIS2, try these optional, exploratory steps below:

1. In the Data Entry app, select a facility level organisation unit, the **Malaria Burden Reduction** data set and a period of your choice
2. Can you identify the **two different values types** used in this data set? How do the data entry fields differ? **Hint:** Look at the stock-out section of the form. What kind of data elements do you see? Can you find the Data Element Information Box?
3. Explore different data sets, organisation units and periods. Can you find a data set that has been marked complete? What is the timestamp? Would the data set be considered on time?