# Day 2 Exercises

*Please complete any questions in DHIS2 Academy*

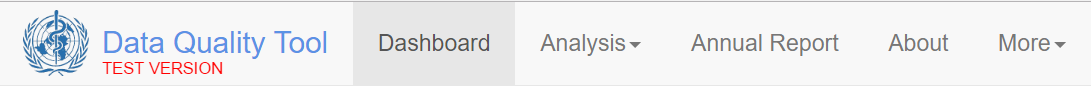
## Exercise 2.2: Use of the completeness dashboard of the WHO DQ app

#### Launch the Tool

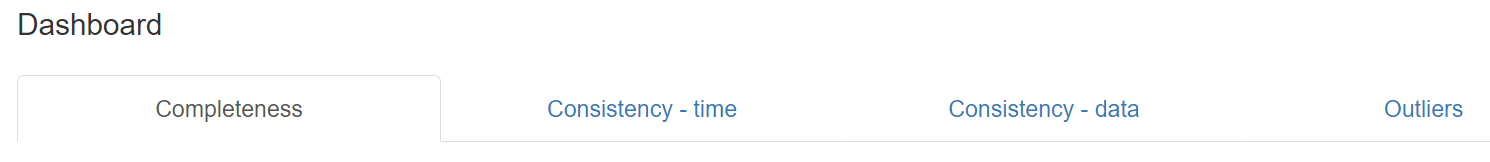
1. **Log onto the DHIS2 instance**. URL = <https://who-demos.dhis2.org/dq>

Username: demo Password: District1#

1. Type “WHO” on the search apps line in the upper right of the DHIS2 Home page. Click on **WHO Data Quality Tool**.
2. **Quickly review the main menu of the DQ Tool**. After the DQ Tool is launched, five tabs will appear at the top of the page. These are used to select between several different functionalities. Notice that the word “Dashboard” is highlighted and the Dashboard function is selected by default.

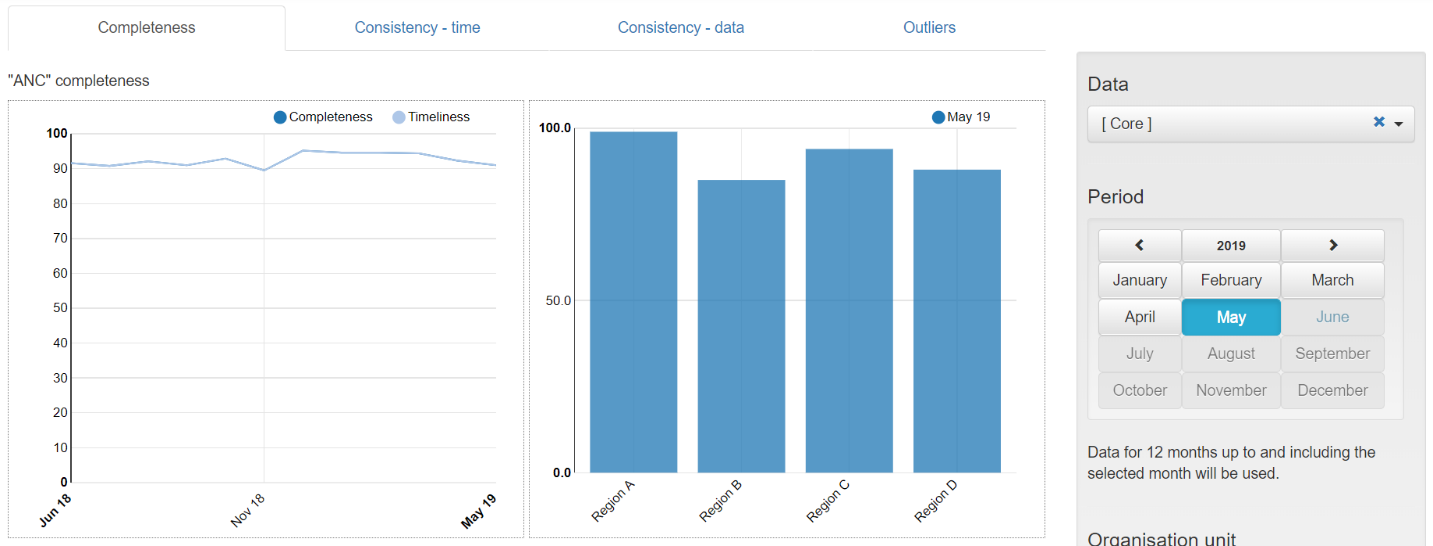


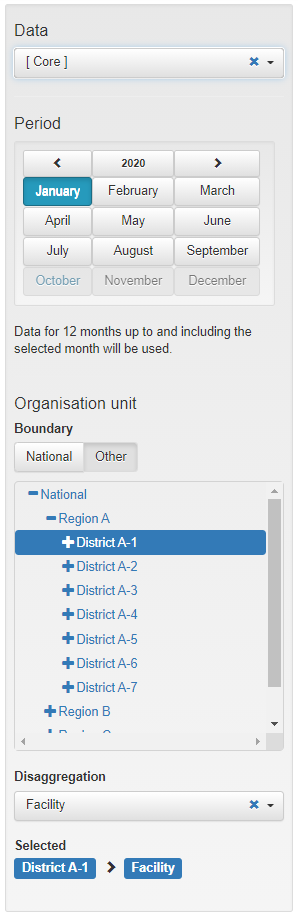
1. **Quickly review the Dashboard menu**. The Dashboard has its own set of four tabs. The Completeness tab is selected by default.



## **Use the Completeness dashboard**

1. **Review the Completeness dashboard**. Scroll down and review the Completeness page of the data quality dashboard. The page shows completeness for each of five “core datasets”.



* 1. **Review the graphs on the left side of the page**. The graphs on the left show, for each dataset, the completeness by month for each of the last 12 months.
  2. **Review the graphs on the right side of the page.** The graphs on the right show, for each dataset, the completeness by Region for the last month of the period being analyzed. Click on the menu icon

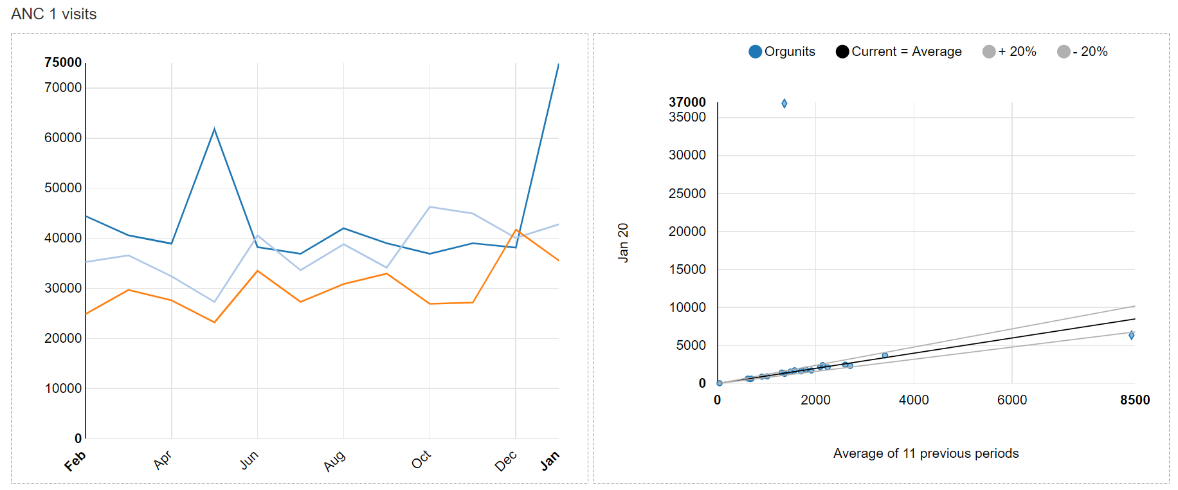
( ) in the upper right of the screen to show a menu on the right of the screen. The reporting period that is charted can be changed by clicking on a different month. *After experimenting with changing the month, reset it to January of 2020.[[1]](#footnote-1)*

* 1. **Change the “Organization unit” that is being analyzed.** By default, the DQ Tool analyzes all data nationwide, disaggregated by Region. The DQ Tool can also be used at district level with data disaggregated by individual health facility. I n the Organisaton unit section of the menu, click on “Other” and select “District A-1 of Region A. The graphs on the left side of the completeness page now show the 12 month trend in the reporting completeness of District D. By default, the graphs on the right side of the completeness page show results disaggregated for one level below – Facility. *After experimenting with changing the organization unit and the month, reset it to national with* ***disaggregation by District*** *and period = January of 2020.*

## Exercise 2.3 : Use the Consistency-time dashboard

#### Review the “Consistency-time” dashboard –

Click on the tab for the “Consistency-time” dashboard.

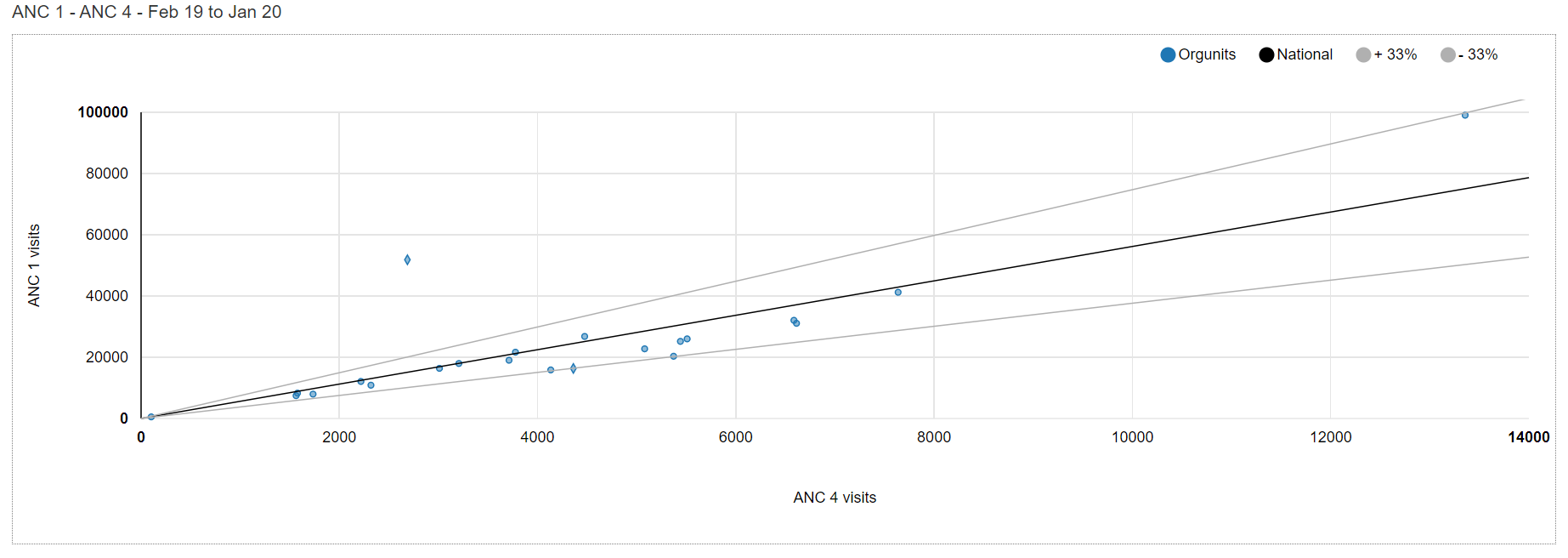
* 1. Review the settings window. If necessary, click on the settings icon to open the window.
  2. Click on the rectangle beneath “Data” and view the drop-down list. These are the various Groups of indicators which can be reviewed with the dashboard of the WHO DQ Tool. Leave Data set to [Core].
  3. Set Period to January of the current year. Notice that when the settings are changed, a bar appears with moving stripes. This is to show that data are being loaded into the DQ Tool. Wait until this bar disappears to see the results. If the internet connectivity is poor or if the DHIS2 instance has a very large amount of data then this bar may “spin” for a long time.
  4. Click on the rectangle beneath “Disaggregation”. Select “District”.
  5. Review the graph at the top left. Move the cursor over the lines and read the information in the box which pops up. **Question 1**: The chart shows total values for which level of the health system (National? Regional? District? Facility?) **Question 2**: The dark blue line shows the trend over which months? The light blue line shows the trend over which months ? The orange line shows the trend over which months? **Question 3**: Has ANC 1 had a consistent value from year-to-year and from month-to-month? If not, describe any inconsistency. For which month(s) were the values not consistent?
  6. Review the graph on the right for ANC 1. This chart is a scatterplot with each dot representing one district. The position of the dot on the vertical axis shows the value of ANC 1 for one district for January of this year. The position of the dot on the horizontal axis shows the average value of ANC 1 for the same district during the 11 months preceding January (i.e. February of last year[[2]](#footnote-2) to December of last year). The dots which lie above the upper grey line or below the lower grey line are suspicious. Notice that they are shaped like a diamond rather than like a circle. Move the cursor over each of the dots which are shaped like a diamond and read the information in the box which pops up. **Question 4**: There are two dots which are shaped like a diamond: one is below the lower gray line and one is above the upper grey line. These dots are for which two districts? **Question 5**: Use the settings window to change Period to May of last year (the other month with a suspicious rise shown in the chart on the left). With Period set to May of last year the chart on the right has one diamond shaped dot above the upper grey line. The dot represents which district? Compare the value reported by that district for May of last year to the average value reported for that district during the preceding 11 months (June of the year before last to April of last year). **Question 6**: Re-set Period to January of this year. Notice again that there is a diamond shaped dot below the lower grey line of the chart on the right. This dot is for which district? Explain why the dot for this district is below the lower grey line. *Before continuing, make sure that the dashboard is set to Period = January of this year and Disaggregation is set to District.*

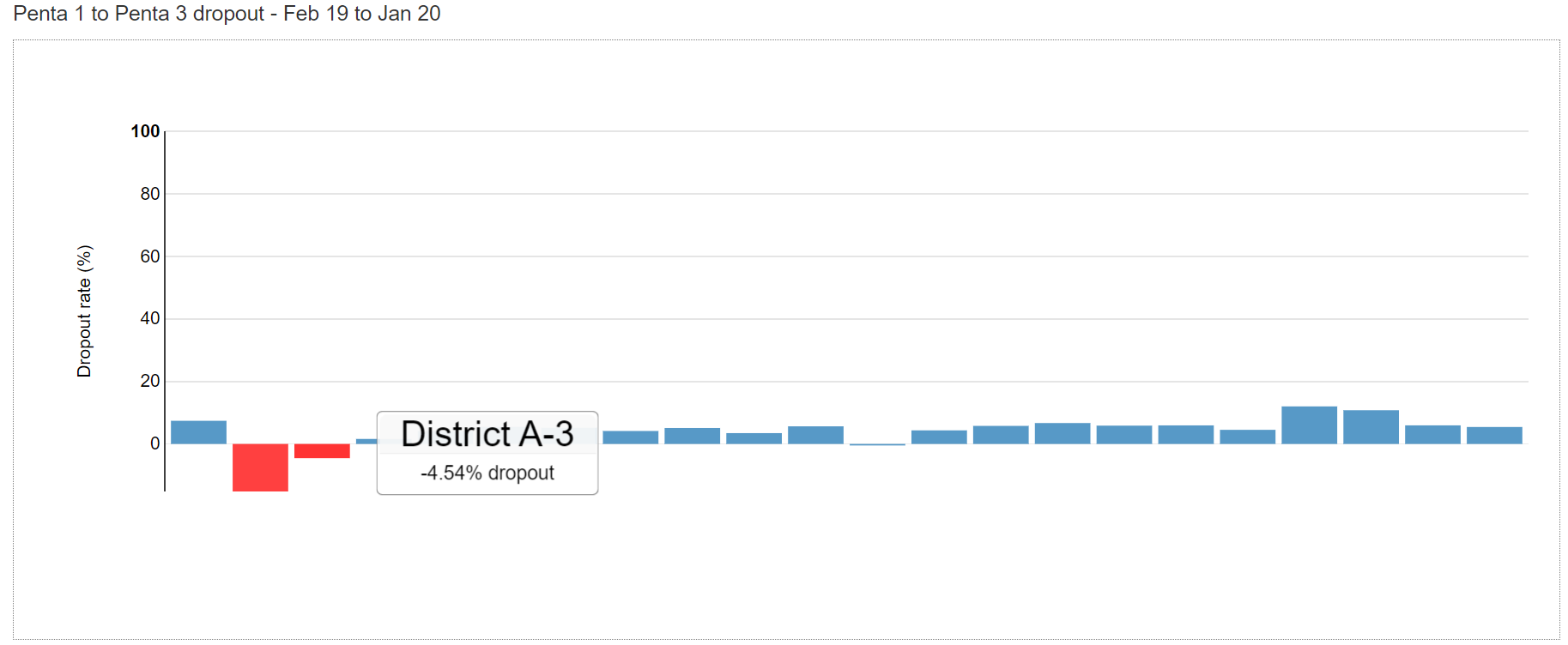
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## Exercise 2.4: Use the Consistency-data dashboard

Click on the tab for the “Consistency-data” dashboard. Each chart on this dashboard assesses the relationship between a pair of related data elements/indicators. Set Data to [Core]. Set Period to January 2020. Set disaggregation to District.

Review the graph comparing ANC 1 and ANC 4. Move the cursor over the chart and read some of the windows which pop up to show details. **Question 7**: What does each dot represent? What does the position of the dot on the vertical axis show? What does the position of the dot on the horizontal axis show? **Question 8**: Place the cursor on the diamond-shaped (outlier) dot above the upper grey line. Explain how the values for this outlier for one of the outliers in the consistency-time chart.



Review the graph assessing Penta dropout rates**:** Move the cursor over the vertical bars and read the information in the windows which pop up.

**Question 9**: How is “dropout rate” defined and how is it calculated? **Question 10**: Which districts have a negative Penta 1 to Penta 3 dropout rate?

1. With the Period set this way, the screen should match the screenshots shown in this guide. [↑](#footnote-ref-1)
2. This document was written and the screenshots were taken in 2020 at a time when “last year” was 2019. When the DQ Trainingland website is viewed in 2021 and subsequent years, last year will advance. As a result, the year shown for “last year” on the DQ Trainingland website will be different from the year shown for “last year” in the screenshots. However, other aspects of these screenshots should be identical to what is shown on the DQ Trainingland website. [↑](#footnote-ref-2)