EXPLORE AI ACADEMY

Integrated project: Maji Ndogo

Visualising the currents of change in Maji Ndogo (Overview)

Our story in Maji Ndogo continues.

In Maji Ndogo and across the world, access to clean and reliable water sources is a fundamental aspect of daily life.

The data collected on water sources, water collection, and crime in Maji Ndogo provide us with a deeper understanding of the daily life of its inhabitants and the critical role water plays in their lives.

Integrated project: Maji Ndogo

Collecting water

Communities rely heavily on a few primary water sources, most of which are located quite a distance from their homes. Many residents, particularly **women and children**, spend a significant portion of their day collecting water. This task often involves long walks under the sweltering sun, carrying heavy containers, and waiting in long lines at the water sources. The physical and time demands of this chore can be gruelling, especially for those who must balance it with work and household responsibilities.

Moreover, the reliance on these limited water sources leads to water collection points becoming crowded and sometimes even tense, as people compete for access to this precious resource. Such situations can potentially lead to disputes, and in some cases, **escalate into criminal activities**.

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Collecting water

In this next chapter of our story in Maji Ndogo, we will explore the **gender composition** of queues at shared water taps, consider new **crime-related data**, **report our insights** to decision-makers, and **report on progress** of the various projects addressing Maji Ndogo's water crisis.

We will **use Power BI** to showcase the insights we got from the survey and connect data from other sources to enhance our data story.

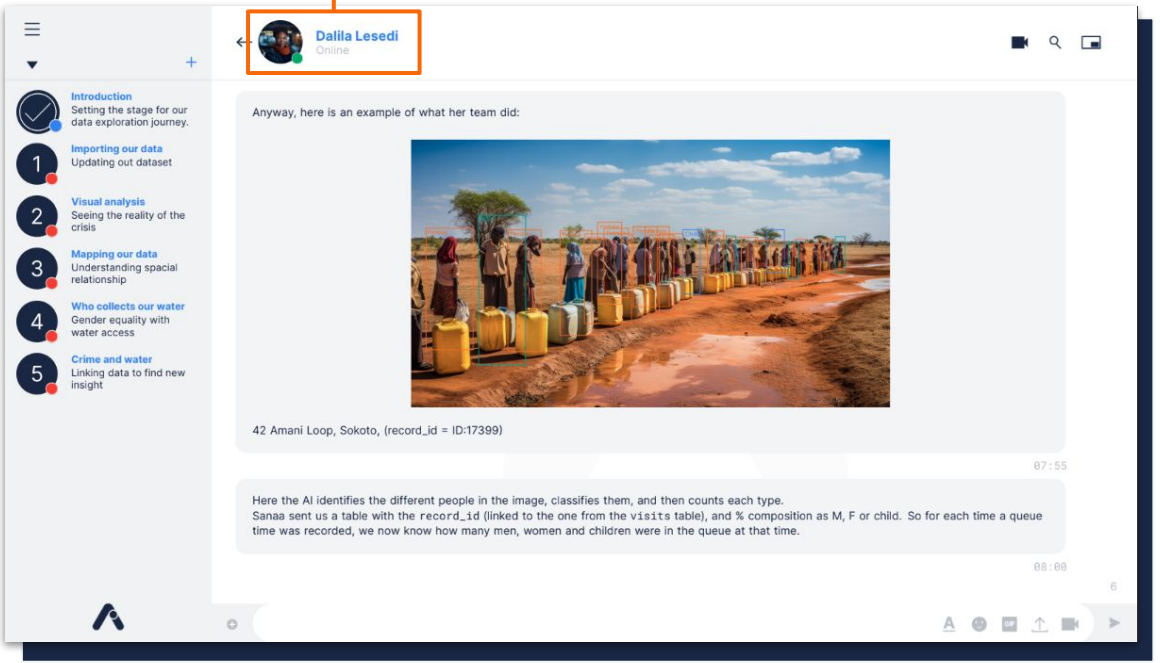
By the end of this project, you will have seen what a real data project looks like from inception to completion, **equipping you with the tools you will need to start your career as a data practitioner**.

Project instructions format

The format of the slides that **guide us through the project each week** will again mimic a chat-like interface.

This time, we meet Dalila Lesedi, a **visualisation expert** and Chidi's previous mentor.

As Chidi guided us through writing SQL queries, Dalila will help us **craft and analyse visualisations in Power BI**.

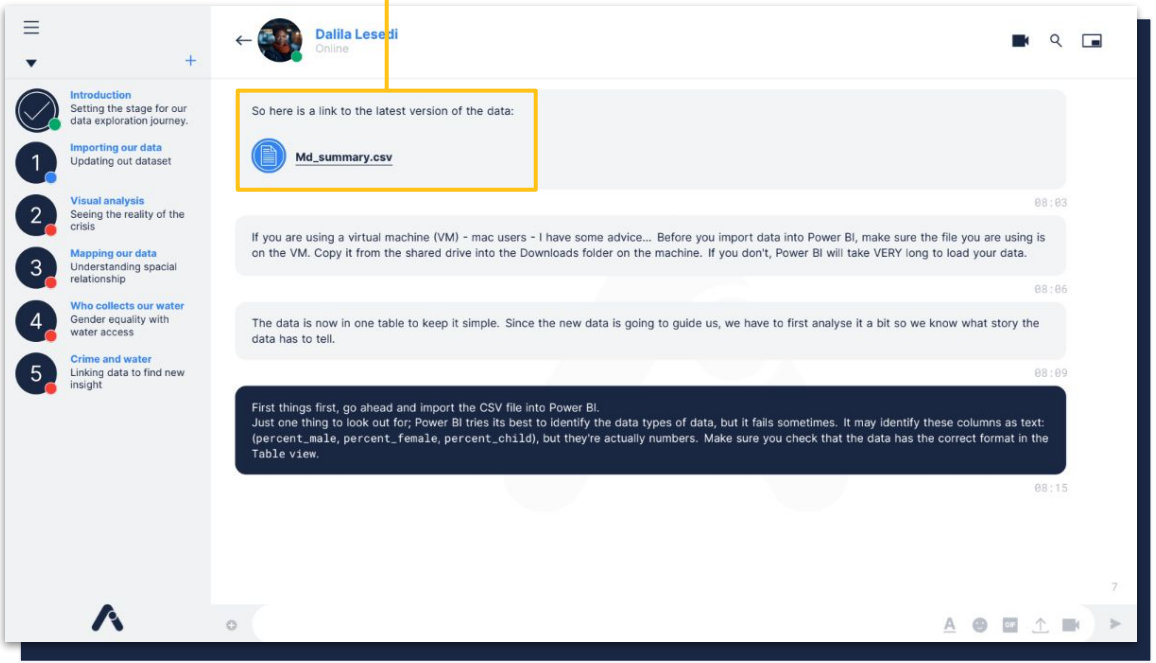


Finding the project data

We'll be using various datasets throughout this chapter of Maji Ndogo.

Luckily, Dalila will be there to **provide us with the data** as and when we need it.

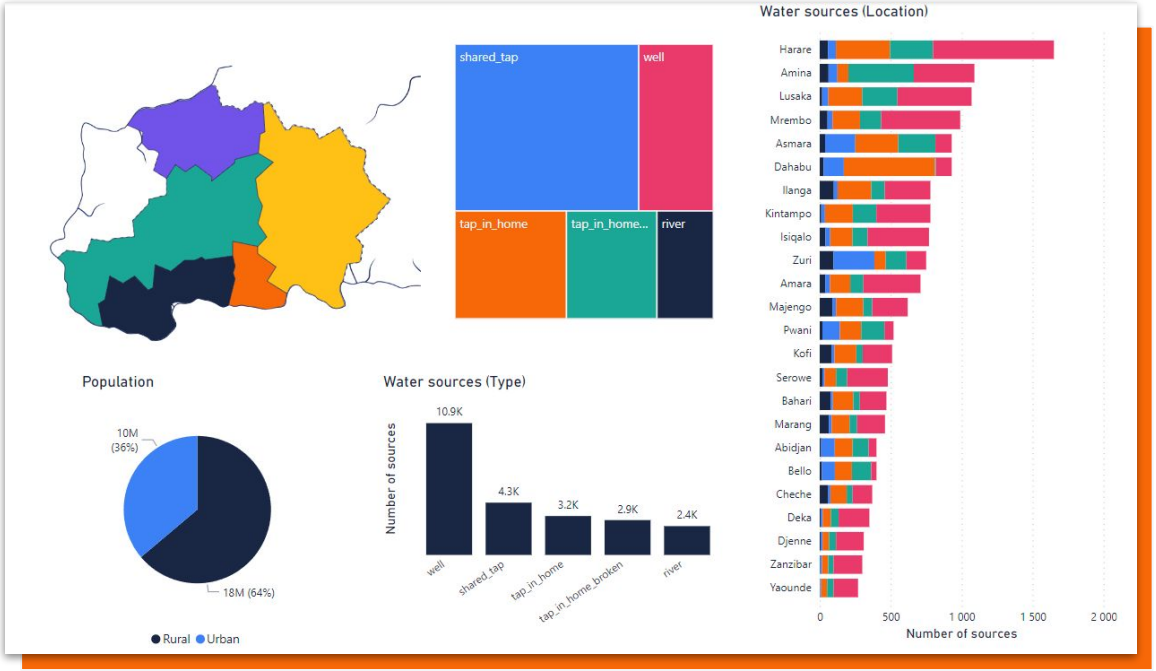
Note: If you are using Power BI on a Mac via a Virtual Machine (VM), it is advisable to **copy all datasets from your local machine to the VM**, otherwise you might experience some timeouts and other difficulty in using the data.



What to expect?

Throughout this project, we will be creating many visualisations in Power BI, and most of these we will need to use to answer the **compulsory MCQs**.

So, it's important that we **create all the visualisations in Power BI** according to the instructions, **save** them somewhere safe, and **practise creating, analysing, and interpreting** the different types of visualisations.



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Our main goal

To make sure **we're the ones standing out** in an interview, we should be able to **solve any problem** we're given using our problem-solving, visualisations, and Power BI skills.

Engaging with this project fully will help you to do that! So forget about the marks, and **build your skills** in this project.

Several points in this project will be challenging, so we should rely on each other to learn. If you get stuck, **reach out to your teammates** and ask for help.

Dashboards and visuals are a great way to **stand out** from the crowd. **Apply** what we have learned in this course and customise the visuals to make a **portfolio** you can show off!