Starting shortly

Please wait!

ActivityInfo

Understanding formulas and Pivot Tables for Calculated measures in ActivityInfo

ActivityInfo

Meet your instructors

Jeric Kison
Customer Success Director
BeDataDriven

Victoria Manya
Customer Education Specialist
BeDataDriven

ActivityInfo

Calculated Measures Webinar Series

1

Understanding formulas and Pivot Tables for Calculated measures in ActivityInfo

July 26

2

Discover the power of Calculated measures in ActivityInfo

Aug 2

3

Unleashing data insights - Office hour session on Calculated measures in ActivityInfo

Aug 9

ActivityInfo

Presentation outline

Overview

- Explaining concepts
- Using formulas in ActivityInfo
- Designing a pivot table using ActivityInfo
  - Adding a filter to a pivot table
- Introducing Calculated measures in ActivityInfo

Concepts

Formulas, Pivot tables and Calculated measures

Formulas

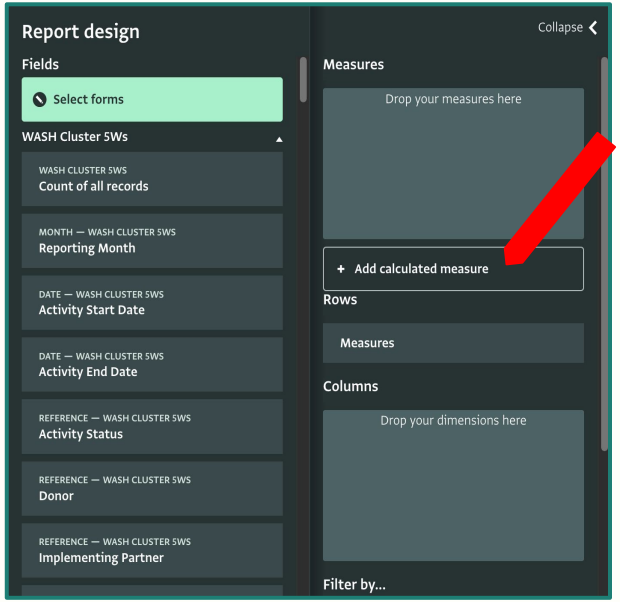
```
SUMX(c4vegjwlk7x6o613, totalGirls+ totalWomen+ totalF
+
SUMX(c5o9vzilk8habx32, totalGirls+ totalWomen+ totalF
```

Pivot tables

Select visualization

Name	Value
Harm Reduction	11900
Health services - Infrastructure	11800
Hygiene Promotion & Behaviour ...	23800
Water Supply - Community	23600
Water Supply - Household Level	23800

Calculated measures



ActivityInfo

Speed quiz

- What is a formula?
  - A) A recipe that tells the computer what to do with the data
  - B) A visual representation of data in a structured manner
  - C) A tool for grouping and summarizing data

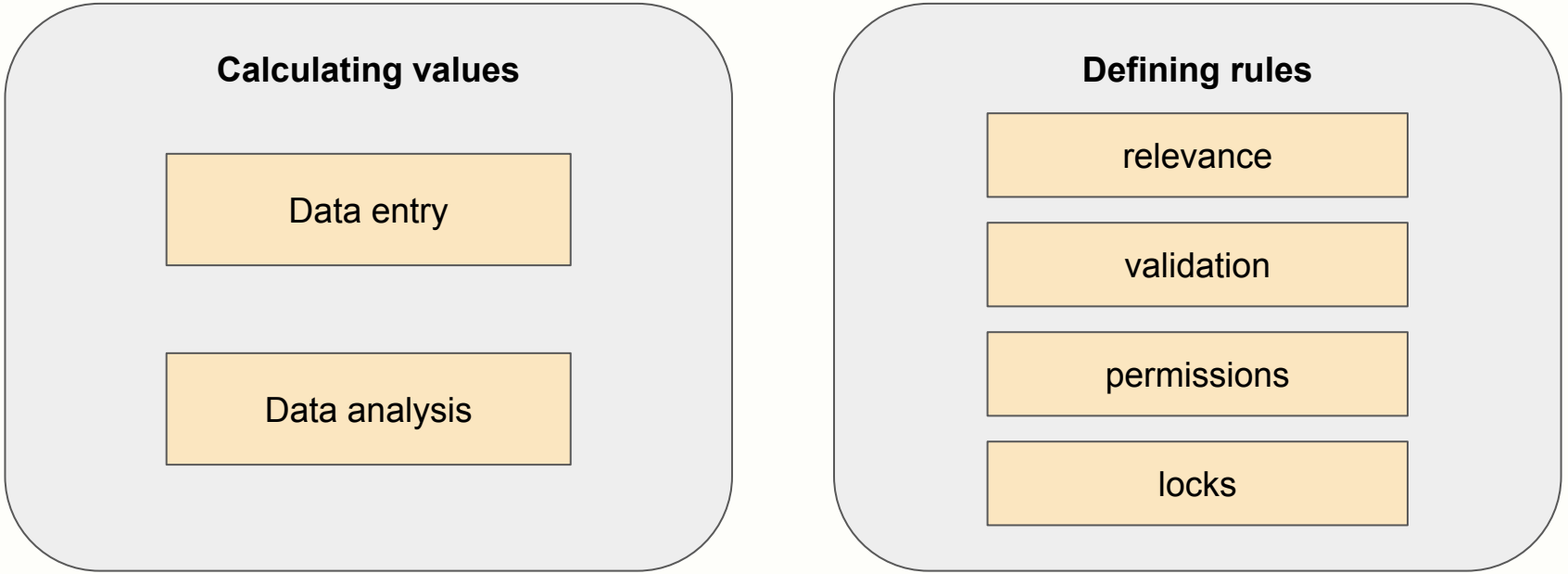
- What is the primary purpose of Pivot tables?
  - A) To create custom calculations based on existing data
  - B) To reorganize and summarize large amounts of data
  - C) To perform complex data analysis using formulas

- How do Calculated measures differ from calculated fields in ActivityInfo?
  - A) Calculated measures are not tied to a form context , while calculated fields are.
  - B) Calculated measures allow you to group and summarize data, while calculated fields enable advanced calculations.
  - C) Calculated measures are only useful for quantity fields, while calculated fields are used for advanced insights.

Using formulas

Using formulas

What can you do with formulas?



ActivityInfo

Using formulas

What can you do with formulas?

Calculating values

```
FIELD_CODE + 1

FIRST_A + FIELD_B

WOMEN / (MEN + WOMEN) * 100
```

Using formulas

What can you do with formulas?

Defining rules

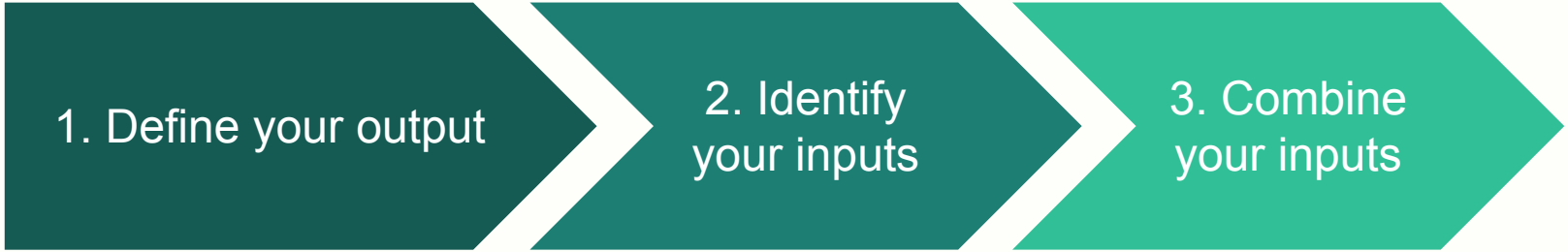
```
AGE < 18

AGE > 0 && AGE <= 18

Name == “Jeric” || Name == “Victoria”
```

Using formulas

How do you write a formula?



ActivityInfo

Using formulas

How do you write a formula?

1. Define your output

Calculating values

- Use arithmetic or statistical operators
- Combine multiple values together
- Should return a single value

Defining rules

- Use logical operators (IF statements, comparisons)
- Should evaluate to TRUE or FALSE

Using formulas

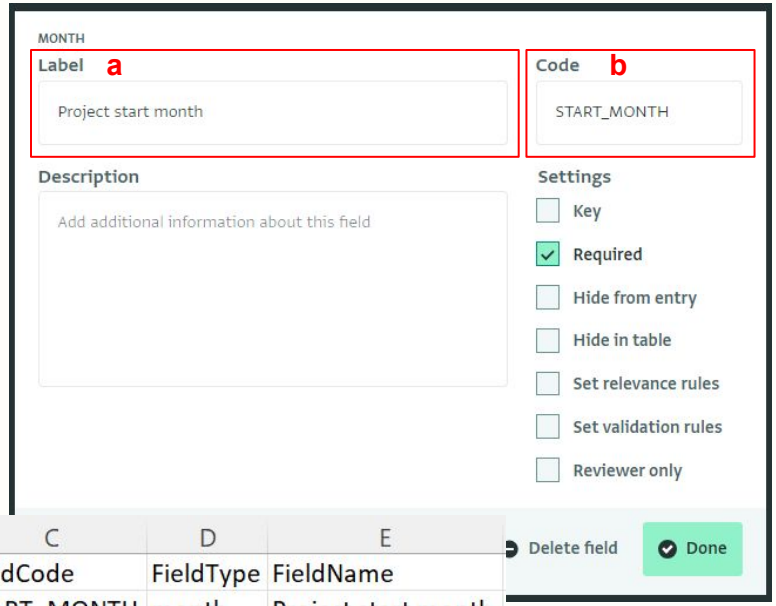
How do you write a formula?

2. Identify your inputs

Refer to a field using a symbol.

You can use:

a. field label (with square brackets)
b. field code
c. internal ID of the field (accessed by exporting the form fields)



	A	B	C	D	E
1	FormId	FieldId c	FieldCode	FieldType	FieldName
9	c36sy26ljg0q4ih8n	cgkh1k5kq6k0gsmv	START_MONTH	month	Project start month
10	c36sy26ljg0q4ih8n	c197davkq6k0nomw	END_MONTH	month	Project end month
11	c36sy26ljg0q4ih8n	cpft1dwkq6k1vdl12	F1	single sele	Project status

ActivityInfo

Using formulas

How do you write a formula?

2. Identify your inputs

Selecting an option from single or multiple select fields

You can:

a. Test equality with a text string
b. Use the dot notation

```
GENDER == “Male”

GENDER.Male

AGE_GROUP.[Children under 5]
```

Using formulas

How do you write a formula?

3. Combine your inputs

Use arithmetic operators

a. +
b. -
c. *
d. /
e. ( )

```
WOMEN / (MEN + WOMEN) * 100
```

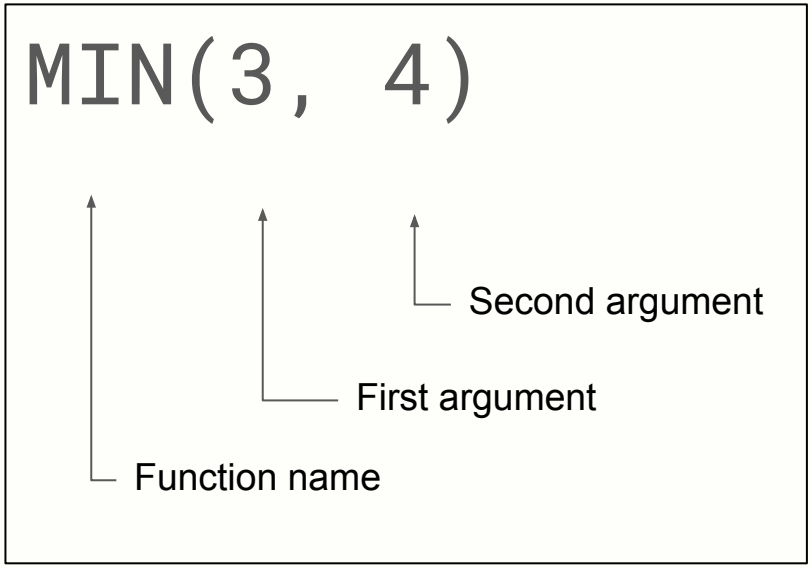
Using formulas

How do you write a formula?

3. Combine your inputs

Use a function

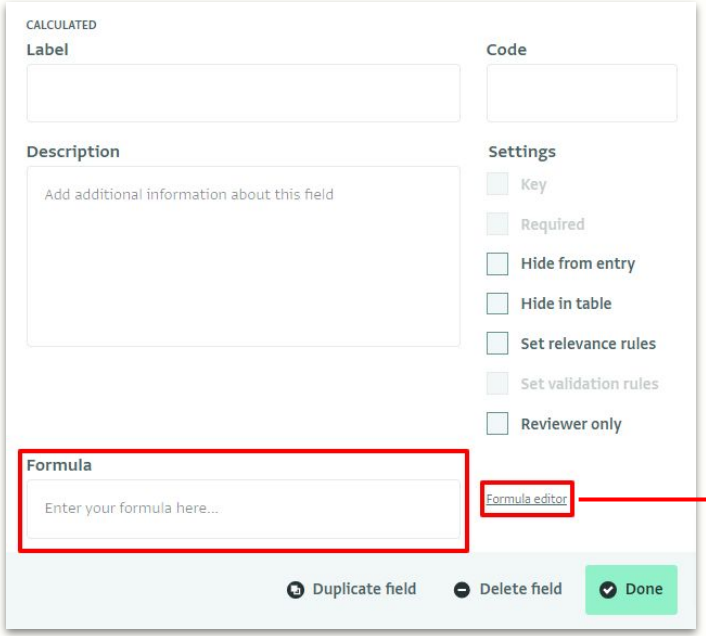
a. Write the name of the function
b. Enclose arguments between parentheses

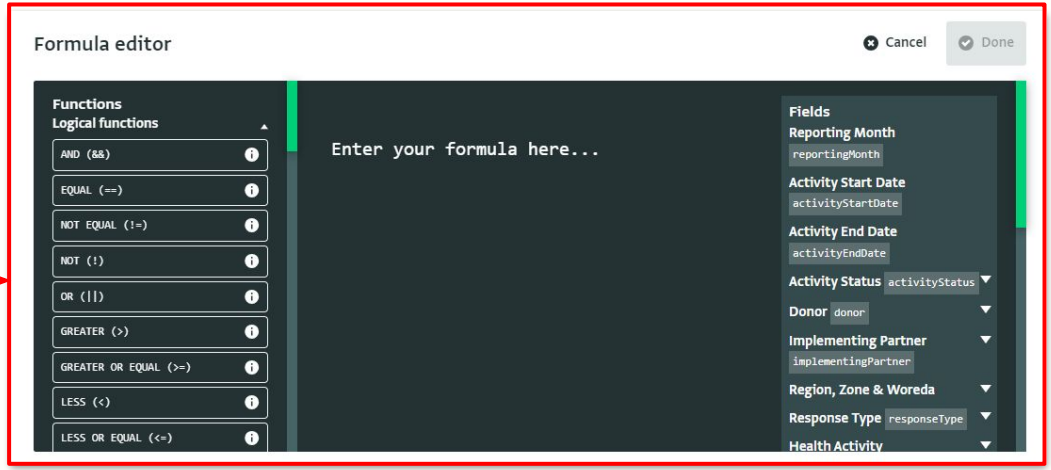


ActivityInfo

Using formulas

How do you write a formula?





ActivityInfo

Demo

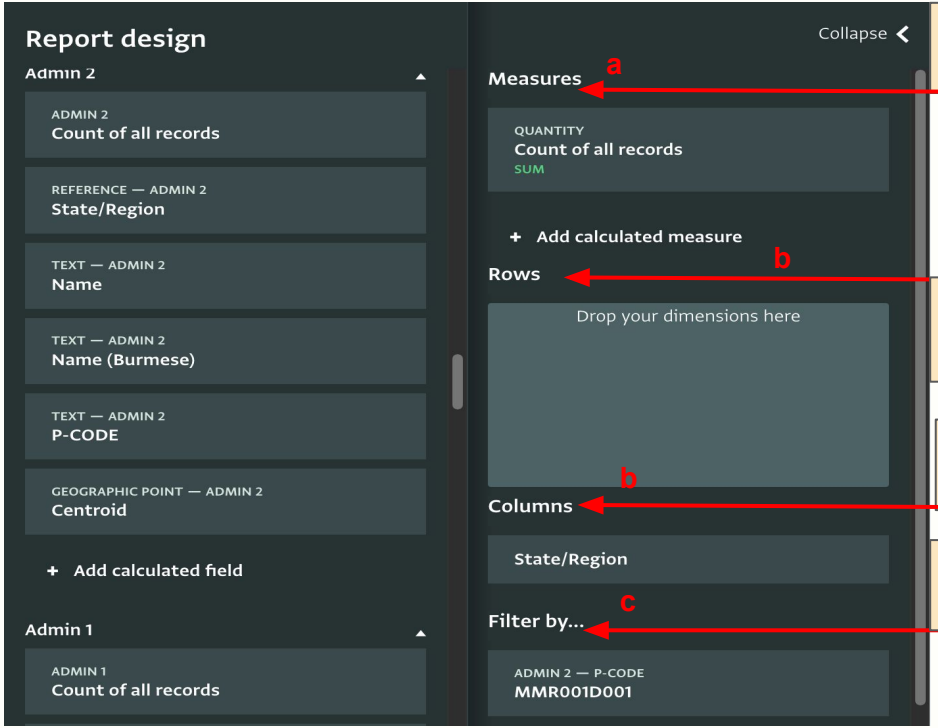
ActivityInfo is a

Data Analysis and Visualization Tool

Analyzing your data in ActivityInfo

Create Pivot tables report that connects to your data in real-time

Designing Pivot tables



a) Add Measures

b) Add Dimension

b) Add Dimension

c) Add Filter

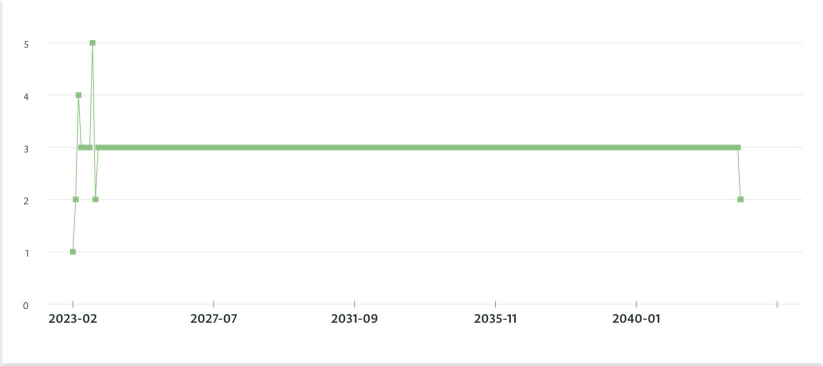
ActivityInfo

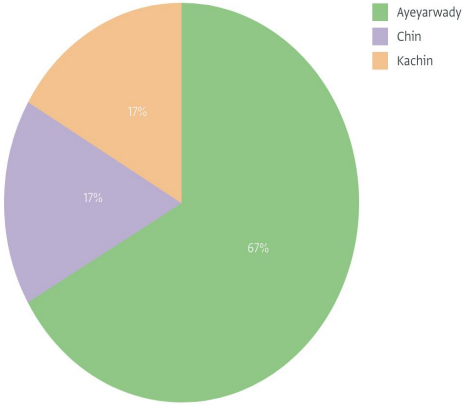
Pivot tables, charts and lines

REPORT

Distributions & Costs

Measures	Drenthe	Flevoland
# chairs	110	80
# desks	60	65
# lab kits	40	40
Total cost (€):	1550	1450
Cost of desks (€):	600	650
Costs of chairs (€):	400	400
Cost of lab kits (€):	400	400

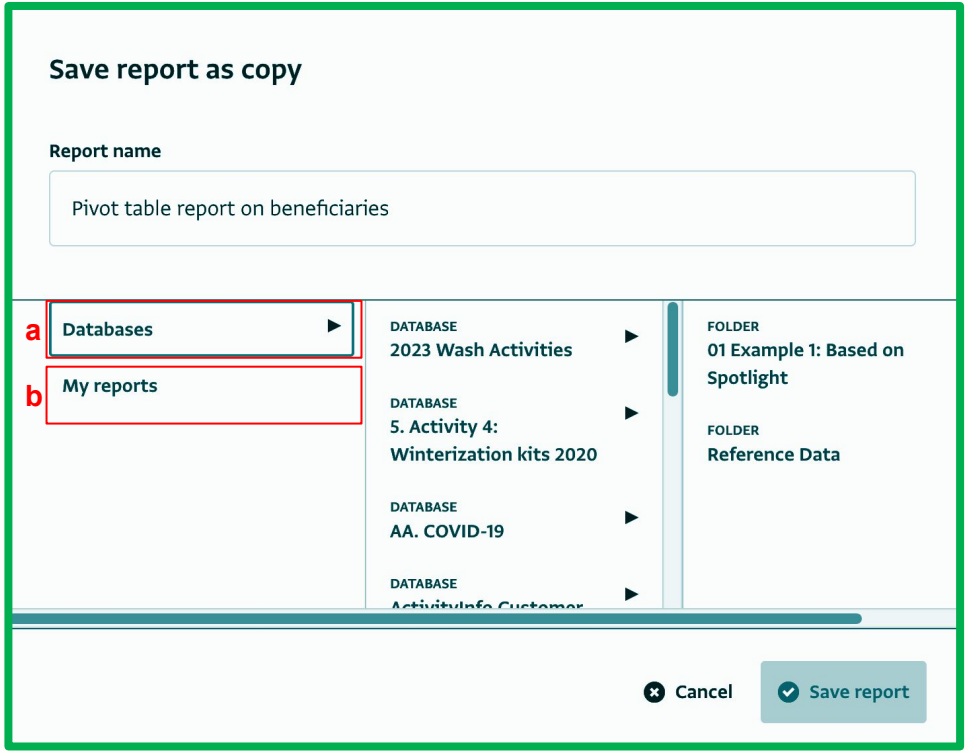




ActivityInfo

Disseminating your insights

Saving your reports as a resource



ActivityInfo

Watchouts while Using Pivot Tables

When you design a pivot table, you should note:

- ✓ The behaviour differs depending on the field type inserted in measures
- ✓ The row context

Demo

Expanding the analytical capabilities of Pivot Tables with Calculated Measures

Introducing Calculated Measures

Expanding your analysis

When you create a calculated measure, you add a new measure to your data model that goes beyond the fields already added to your forms.

Calculated measures are not bound by row context, thus opening up a range of new analytical possibilities.

Introducing Calculated Measures

Expanding your analysis

When you create a Calculated Measure, you can:

- ✓ **Combine data** from different forms into one measure
- ✓ Use **different types of aggregations** together in the same measure
- ✓ **Aggregate data multiple times** at different levels
- ✓ Apply an **explicit filter** to run a calculation on a subset of data

Introducing Calculated Measures

Supported functions

Aggregation

- SUMX
- AVERAGEX
- COUNTX
- COUNTDISTINCTX
- MINX
- MAXX

Syntax

```
(Table, Expression)
```

Introducing Calculated Measures

Supported functions

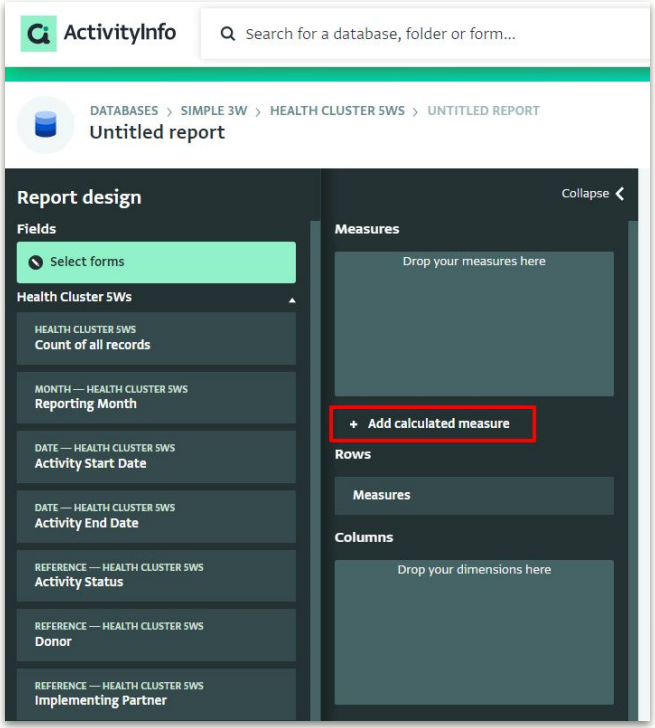
Table

- **SUMMARIZE**
- **UNION**
- **SELECTCOLUMNS**
- **PIVOTLONGER**

Introducing Calculated Measures

Creating a calculated measure

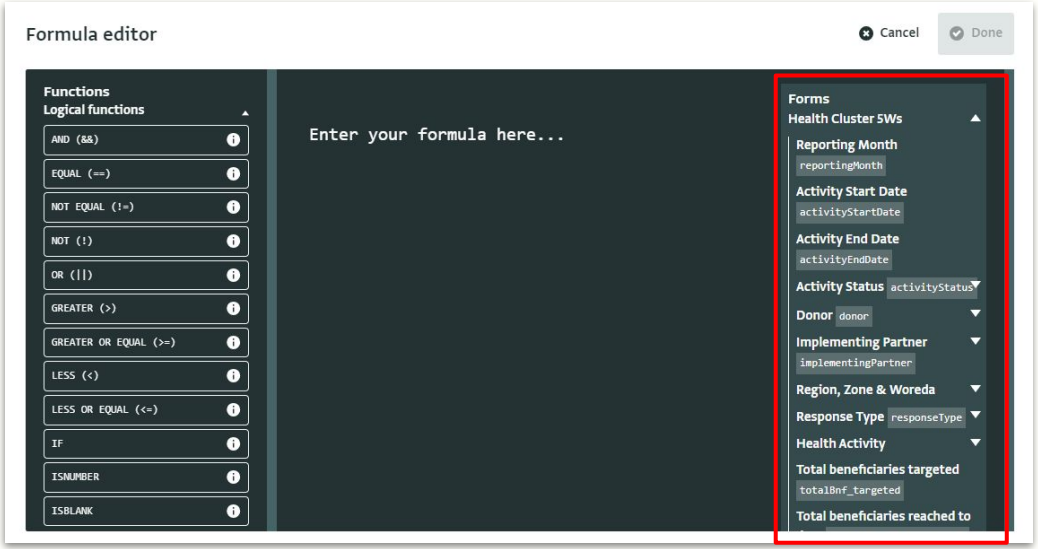
Calculated measures are added in Pivot Tables



Introducing Calculated Measures

Creating a calculated measure

In the formula editor, you will see *both* the list of forms *and* the fields in each form



ActivityInfo

Demo

Q&A

Up next

A hands-on practise approach to calculated measures

2

Discover the power of Calculated measures in ActivityInfo

Aug 2

What you'll learn:

- Combine data from different forms into a single measure
- Utilize different types of aggregations in the same measure
- Aggregate data at multiple levels for comprehensive insights

Feedback