Starting shortly. Please wait!

ActivityInfo

Formulas
Training Agenda

● Introduction to the ActivityInfo Formula Language
● Using formulas
  ○ Calculated fields
  ○ Relevance rules
  ○ Validation rules
  ○ Reports
● Examples
A formula expresses a calculation or rule using symbols.

Can be used for data validation, analysis, and permissions.

If you want to use formulas, strongly recommend setting up your forms with CODES.
FIELD_CODE + 1

FIRST_A + FIELD_B

WOMEN / (MEN + WOMEN) * 100
True/False Rules

AGE < 18

AGE > 0 && AGE <= 18

Name == “Alex” || Name == “Fay”
FUNCTIONS
Remember this from math class?

\[ f(x) \]

\[ \text{SIN}(\theta) \]

\[ \text{MIN}(3, 4) \]
Functions

FUNCTIONS

MIN(3, 4)

First argument

Second argument

Function name
The IF Function

**FUNCTIONS**

IF(AGE < 18, “Minor”, “Adult”)

- **Function name**
- First argument is the condition
- This is the result if the condition is true
- This is the result if the condition is false
Select Fields

FUNCTIONS

GENDER.Male  => True if Male is selected

GENDER.[Female]

AGE_GROUP.[Children under 5]
Scores from Select fields

FUNCTIONS

IF(DISABLED.YES, 5, 0) + IF(AGE < 18, 3, 0)
SUBFORMS
Subform fields in formulas

**EXPAND - SETUP**

1. **FORM**

   - **SUM**(*SUBFORM_FIELD_CODE.NUM_CHILD*)
   - **AVERAGE**(*SUBFORM_FIELD_CODE.AGE*)
   - **MEDIAN**(*SUBFORM_FIELD_CODE.AGE*)

2. **SUBFORM**
Reference Fields
Using the dot notation

Reference Fields

PROVINCE.NAME

PROVINCE.POPULATION

TERRITORY.PROVINCE.POPULATION
SELECT
  t.NAME
  p.NAME, 
  p.POPULATION
FROM threew w
LEFT JOIN territory t ON (w.terr = t.id)
LEFT JOIN province p ON (t.prov = p.id)
Compared to SQL

Reference Fields

territory.NAME
territory.province.NAME
territory.province.POPULATION
Values of reference field

Reference Fields

territory.NAME

A text field

territory

The record ID

3W Record

Territory

Province
Using Formulas
Using formulas

1. Table view
2. Calculated fields
3. Relevance rules
4. Validation rules
5. Pivot tables
Examples
Examples

1. Scoring
2. Dates
3. Filtering relevance rules