

Open for Innovation

KNIME

KNIME Pros Learnathon

Building Reliable and Reusable Components

Group 1: Financial Analysis

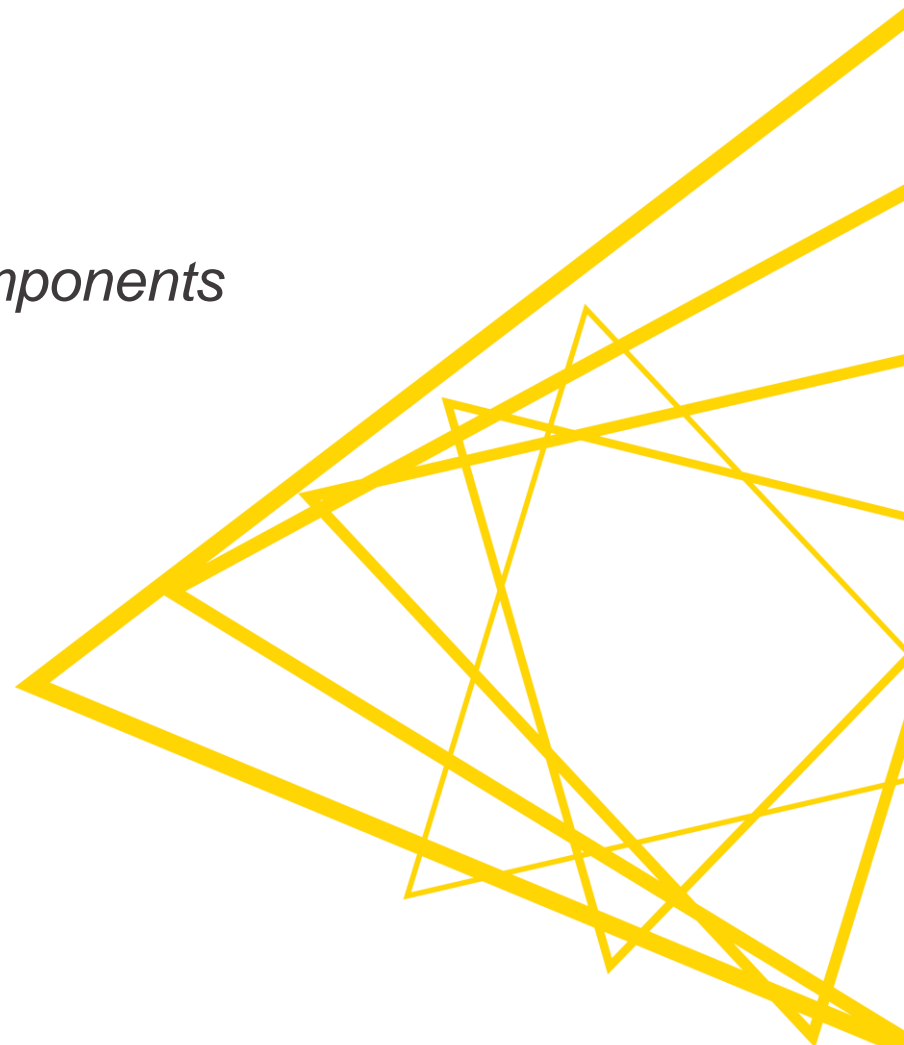
KNIME Team



@KNIME

#Learnathon

tinyurl.com/KNIME-Pros-Stuff



See you soon in a Breakout Room!

Main Zoom Session

Group 1 Financial Analysis



Maarit

KNIME Team Member



Lada

KNIME Team Member

Group 2 Life Sciences



temesgen-dadi

KNIME Team Member



Francosinus

KNIME Team Member

Group 3 Automation



paolotamag

KNIME Team Member



Mpattadkal

KNIME Team Member

Three Parallel Tracks via Zoom Breakout Rooms!

Main Zoom Session

Welcome to:
Group 1.
Financial Analysis

Group 1 Financial Analysis



Maarit
KNIME Team Member



Lada
KNIME Team Member

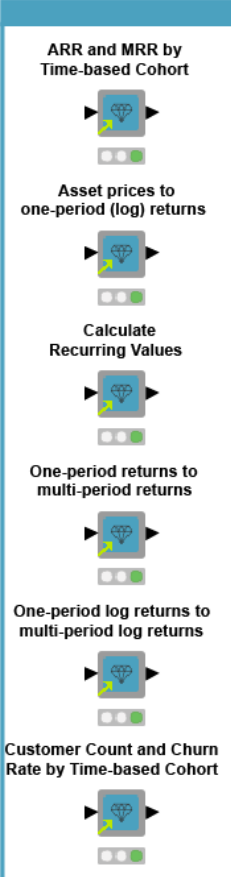
- Group_1-Financial_Analysis
 - Group_1-Building_a_Component
 - Group_1-Building_a_Component-Solution

- Download exercises from:
tinyurl.com/KNIME-Pros-Stuff

OR

- Search **hub.knime.com** :
“KNIME Pros Learnathon Group 1”

Financial Analysis Verified Components



- ARR and MRR by Time-based Cohort
- Asset prices to one-period (log) returns
- Calculate Recurring Values
- One-period returns to multi-period returns
- One-period log returns to multi-period log returns
- Customer Count and Churn Rate by Time-based Cohort

Financial Analysis



Available on
hub.knime.com

Home > 00_Components > Financial Analysis



- ARR and MRR by Time-based Cohort
- Asset prices to one-period (log) returns
- Calculate Recurring Values
- Customer Count and Churn Rate by Time-based Cohort
- One-period log returns to multi-period log returns

Financial Analysis



Finance teams across all industries require specific techniques to keep track of the company's numbers while ensuring precision and compliance. Those time-consuming tasks usually rely on data from different spreadsheets, which can be hard to maintain and update. These Components help build reusable workflows for an efficient financial analysis.

[View on KNIME Hub](#)

Analyze ARR

Step 1: Access raw data

- Raw data
 - Contracts data with a value and ID assigned to a time period

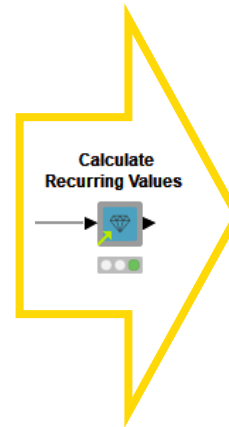
ID	Value	Start	End
Horst	10000	2016-01-01	2020-06-30
Ilse	6700	2016-01-01	2019-08-31
Anton	30 000	2019-01-01	2019-12-31
...			
Anna	17 000	2020-01-01	2020-12-31

Analyze ARR

Step 2: Calculate recurring values

- Preprocessed Data
 - Recurring revenue value for each ID in each month

ID	Value	Start	End
Anton	30 000	2019-01-01	2019-12-31

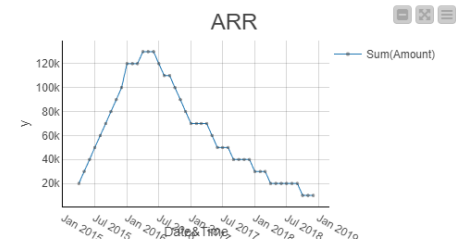
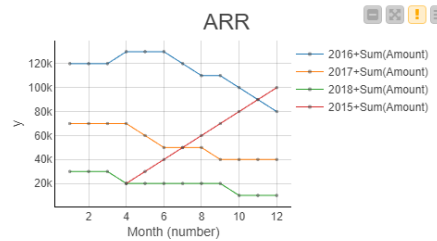
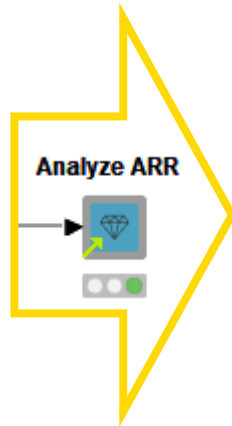
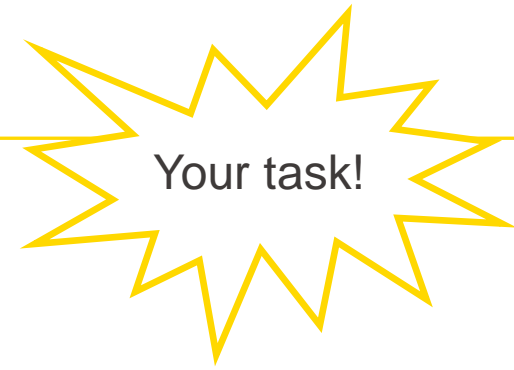


ID	Value	Month
Anton	2 500	2019-01-01
Anton	2 500	2019-02-01
Anton	2 500	2019-03-01
Anton	2 500	2019-04-01
Anton	2 500	2019-05-01
Anton	2 500	2019-06-01
Anton	2 500	2019-07-01
Anton	2 500	2019-08-01
Anton	2 500	2019-09-01
Anton	2 500	2019-10-01
Anton	2 500	2019-11-01
Anton	2 500	2019-12-01

Analyze ARR

Step 3: Calculate and visualize ARR

- Component with an interactive view
 - ARR over time and month by month in each year



ARR Month by Month

ARR Month by Month

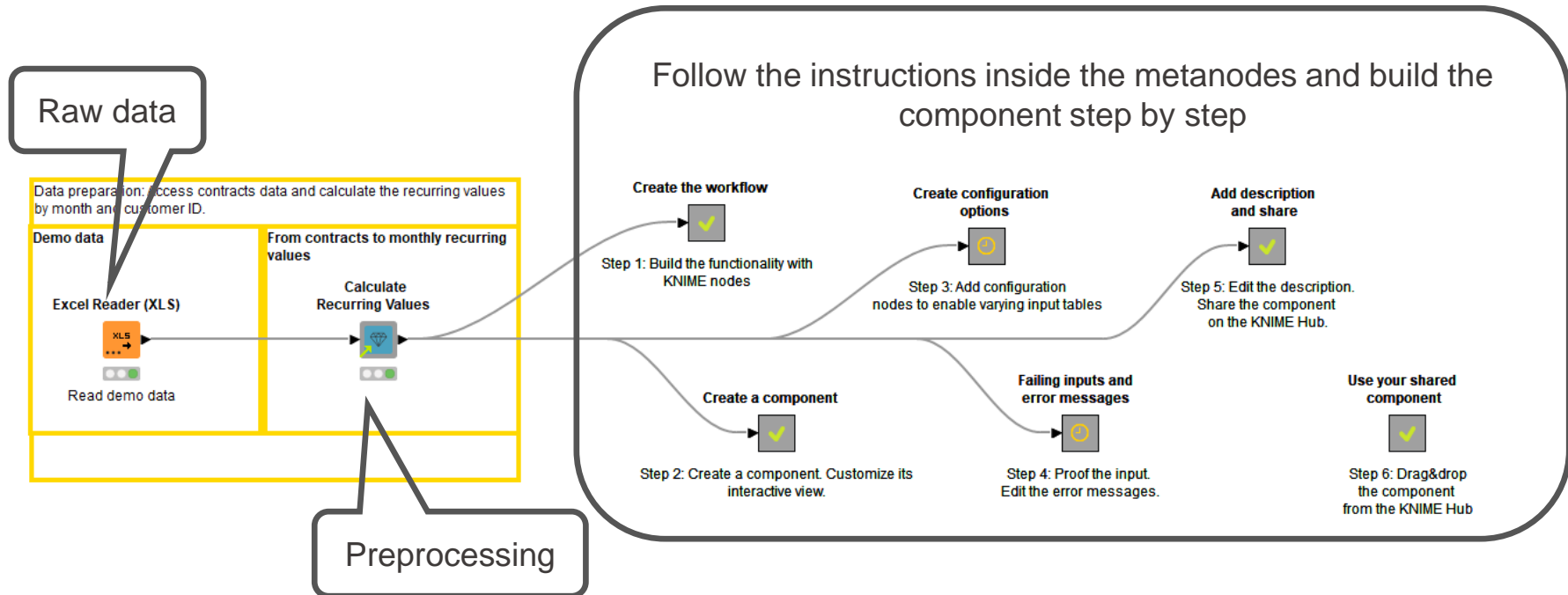
Show 10 entries Search:

<input type="checkbox"/>	Date & Time	Sum(Amount)
<input type="checkbox"/>	2015-04-01	20000.00
<input type="checkbox"/>	2015-05-01	30000.00
<input type="checkbox"/>	2015-06-01	40000.00
<input type="checkbox"/>	2015-07-01	50000.00
<input type="checkbox"/>	2015-08-01	60000.00
<input type="checkbox"/>	2015-09-01	70000.00
<input type="checkbox"/>	2015-10-01	80000.00

Reset Apply Close

Let's start!

- Open the *Group_1-Building_a_Component* workflow
- Execute the pre-built workflow
- Follow the instructions



Today's Challenge: Analyze ARR

- Download Exercises from **link** and import .knar file to your KNIME Analytics Platform LOCAL Workspace!

OR

- Download from KNIME Hub!

hub.knime.com/knime/spaces/Education/latest/Learnathons
or Search for **“KNIME Pros Learnathon - Group 1”**

