

At KNIME, we build software to create and productionize data science using one easy and intuitive environment, enabling every stakeholder in the data science process to focus on what they do best.

- They can replace existing legacy systems but they don't have to. They can sit on top of, alongside or even inside existing infrastructures, extending the utility and functionality of previous investments.
- They support the use of diverse data sources, types and tools. Integration is made easy for a broader variety of small and big data sources – in-house, proprietary, public, legacy or newly created in real-time – across all data types ranging from simple numbers to complex networks, texts, or images. And open platforms don't take your data hostage but let you decide how best to use it.



Lareb Amir (K21-4173)
Maham Sabir

1. REGISTER FOR HELP AND UPDATE

Download KNIME Analytics Platform

Get started in three simple steps.



Register for Help
& Updates



Download
KNIME



Get Started with
KNIME

If you haven't done so already, why not sign up for our newsletter and other updates? We obviously won't share your contact information with anyone and we also won't fill your mailbox with clutter.

If you're new to the KNIME family, let us help you get started with a short series of introductory emails. These will get you up and running as quickly as possible and introduce you to resources that will maximize your success with KNIME Analytics Platform.

Email

Company / Organization

First Name

Last Name

Country

- None -

Would you mind telling us how you heard about KNIME?

I'd rather not tell

I want to receive updates from KNIME (and only KNIME!) - I also accept KNIME's [privacy policy](#).

... In addition to the above, I would like to receive three getting started emails.

Download

DOWNLOAD

1. Go to the [download page](#) to start downloading KNIME Analytics Platform

2. The download page shows three tabs which can be opened individually:

• Register for Help and Updates: here you can optionally provide some personal information and sign up to our mailing list to receive the latest KNIME news

• Download KNIME: this is where you can download the software

• Getting Started: this tab gives you information and links about what you can do after you have installed KNIME Analytics Platform

1. DOWNLOAD KNIME

Download KNIME Analytics Platform

Get started in three simple steps.



Windows

KNIME Analytics Platform for Windows (installer)

The installer adds an icon to the desktop and suggests suitable memory settings

[Download](#) (548 MB)

KNIME Analytics Platform for Windows (self-extracting archive)

The self-extracting archive only creates a folder holding the KNIME installation

[Download](#) (553 MB)

KNIME Analytics Platform for Windows (zip archive)

[Download](#) (677 MB)

Linux

KNIME Analytics Platform for Linux

[Download](#) (712 MB)

Mac

KNIME Analytics Platform for macOS (10.13 and above)

[Download](#) (556 MB)

DOWNLOAD

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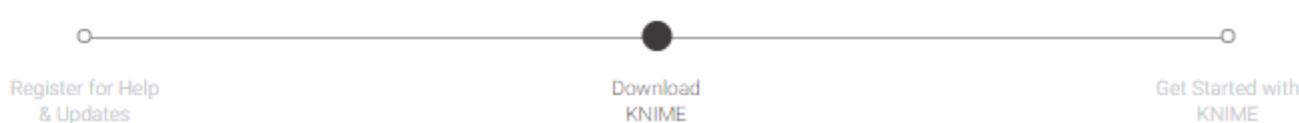
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2. DOWNLOAD KNIME

Download KNIME Analytics Platform

Get started in three simple steps.



KNIME Analytics Platform for Windows (installer)

You decided to download the installer for KNIME Analytics Platform for Windows (installer) 64 Bit (548 MB).

The installer adds an icon to the desktop and suggests suitable memory settings

If you want to run the KNIME installer or self-extracting archive for Windows you might experience some difficulty because of the Microsoft SmartScreen filter which was introduced with Internet Explorer 9 and Windows 8. [Find out how to solve the problem.](#)

I have read and accept the [privacy policy](#) and the [terms and conditions](#) *

[Download](#)

DOWNLOAD

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3. GETTING STARTED

Download KNIME Analytics Platform

All done! Now you can start building your first workflow. Here are some resources for getting started.

The screenshot shows the KNIME Analytics Platform download page. At the top, there are three tabs: "Register for Help & Updates" (with a grey outline), "Download KNIME" (with a grey outline), and "Get Started with KNIME" (which is active, indicated by a black outline). Below the tabs, there are four main sections:

- Build a Workflow**: Includes a small icon of a workflow diagram and a button labeled "Get Started".
- Learning Material**: Includes a small icon of a person with speech bubbles and a button labeled "Learn More".
- Tutorials**: Includes a small icon of a video camera and a button labeled "Watch Now".
- Example Workflows**: Includes a small icon of a workflow diagram and a button labeled "Visit KNIME Hub".

Below each section, there is a brief description:

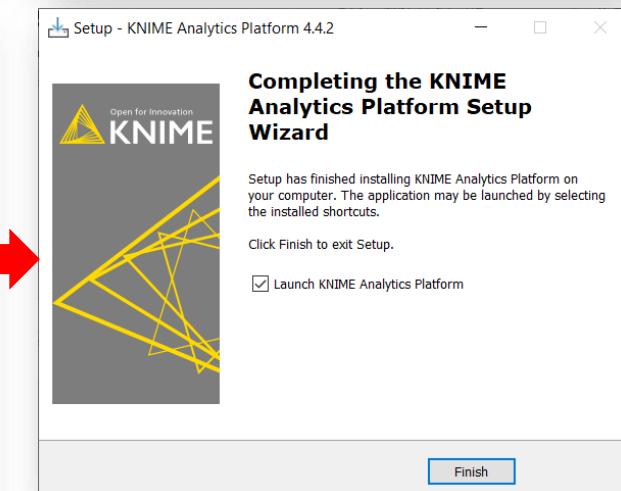
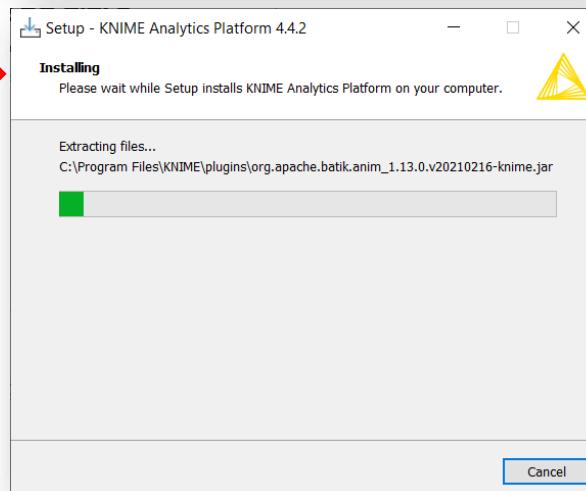
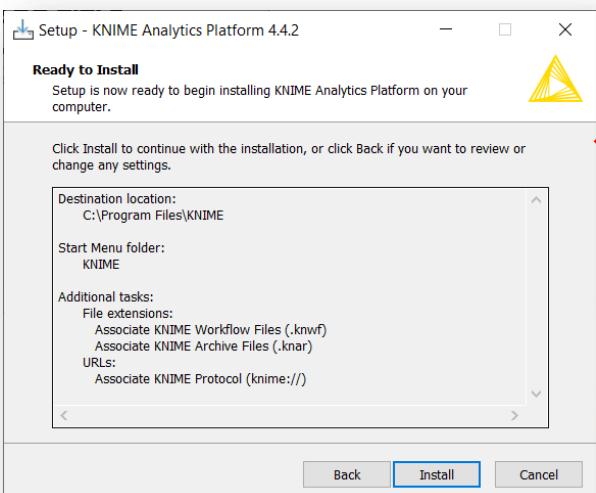
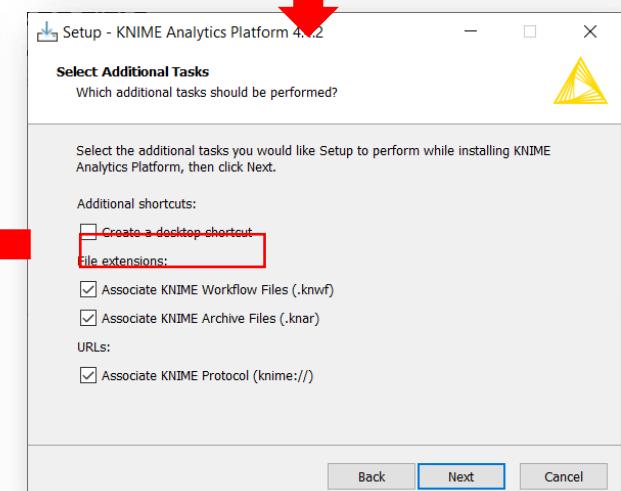
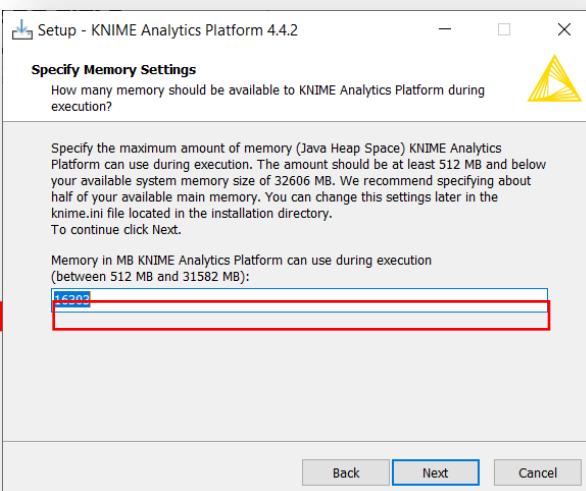
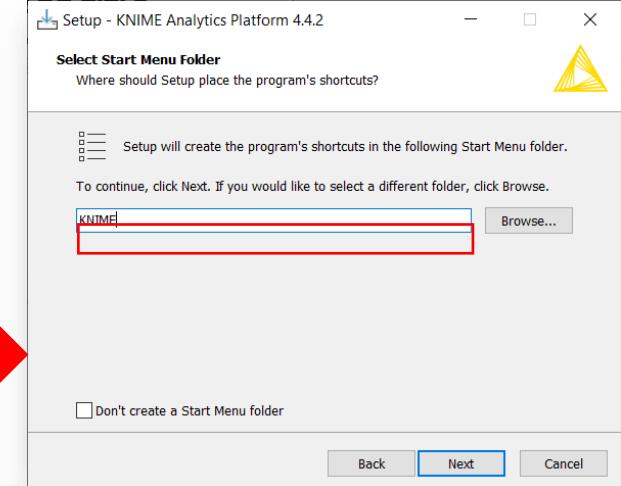
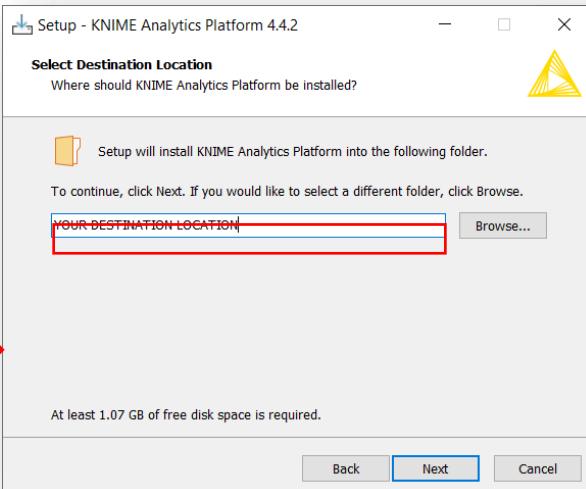
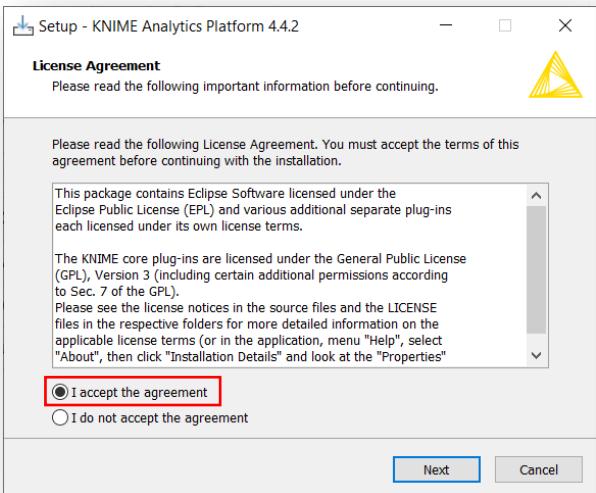
- Build a Workflow: Follow the steps in our getting started manual and build your first workflow.
- Learning Material: Access to books, courses, webinars, cheat sheets, documentation, and more.
- Tutorials: Watch our YouTube channel for detailed "How-To" videos.
- Example Workflows: Visit the KNIME Hub for thousands of ready to use workflows, nodes, and components.

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INSTALLATION





Open for Innovation

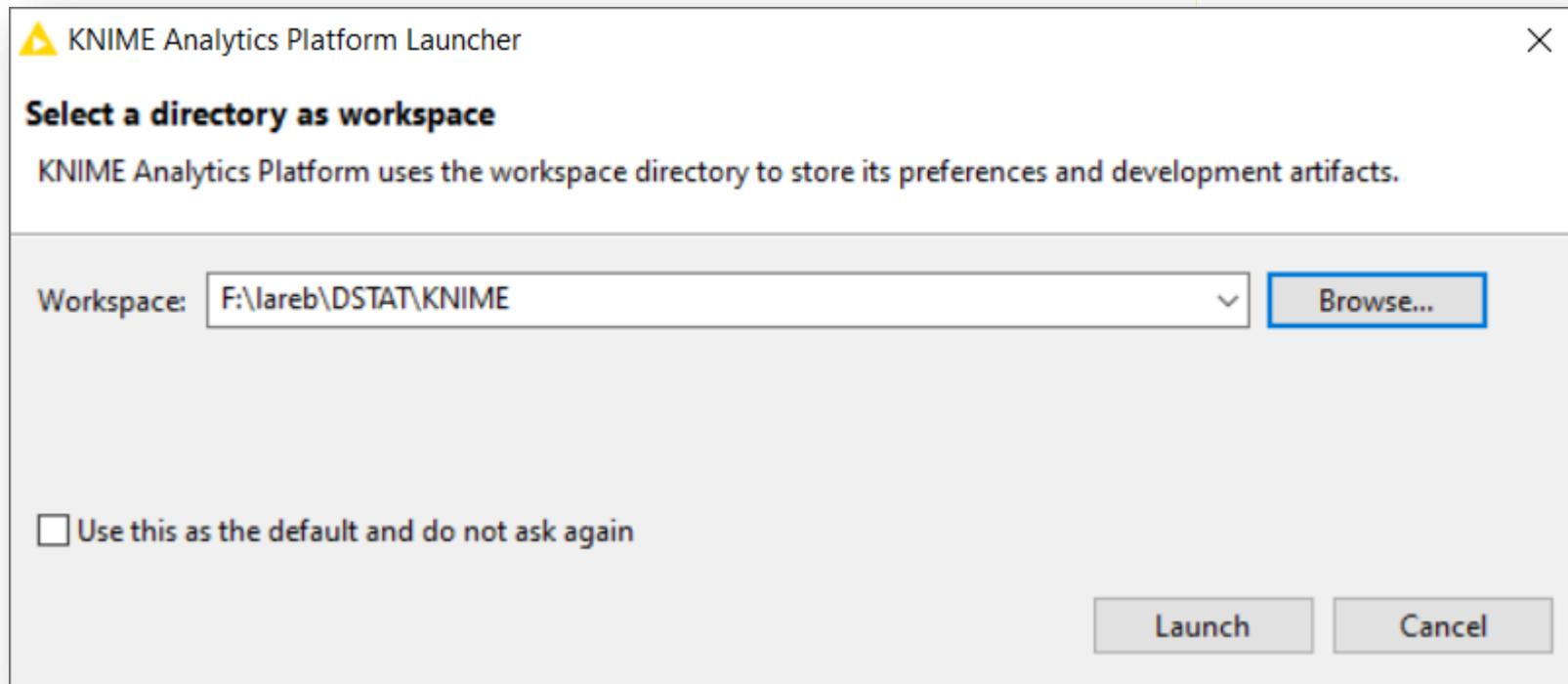
KNIME

Version 4.4.2

(Build October 20, 2021)

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CREATE AND SELECT A DIRECTORY AS WORKSPACE

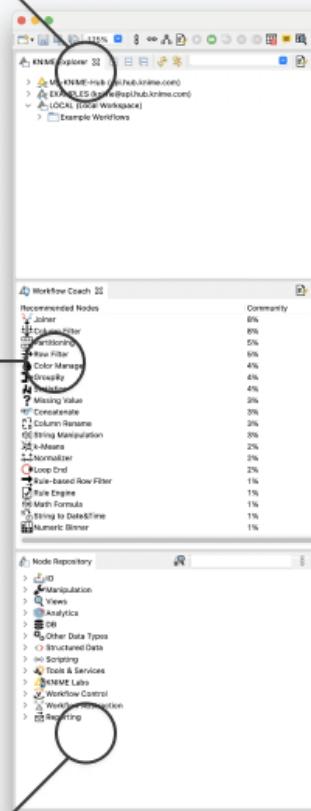


AND LAUNCHES THE WORKSPACE

KNIME DASHBOARD

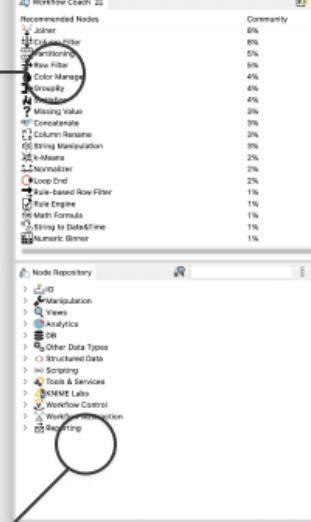
KNIME Explorer

Overview of the available workflows.



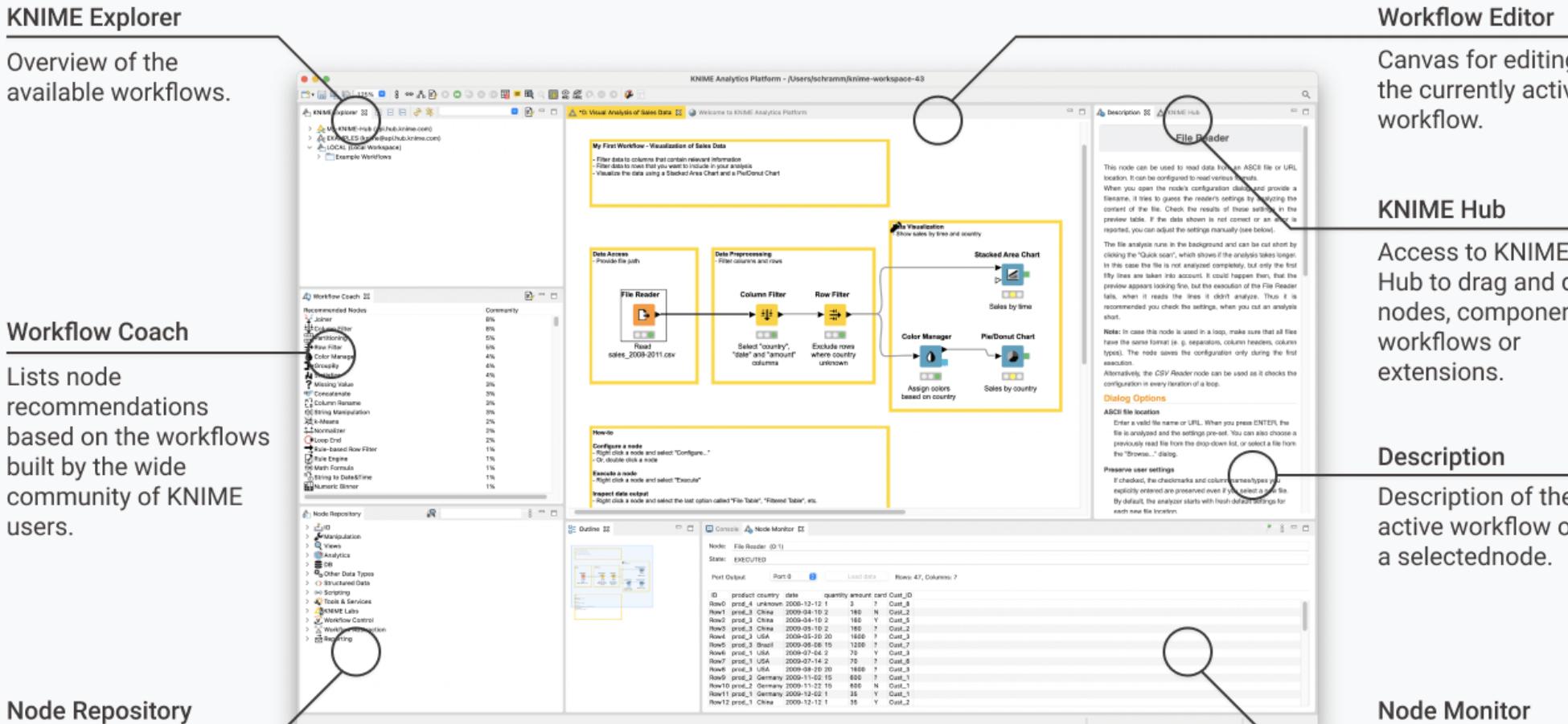
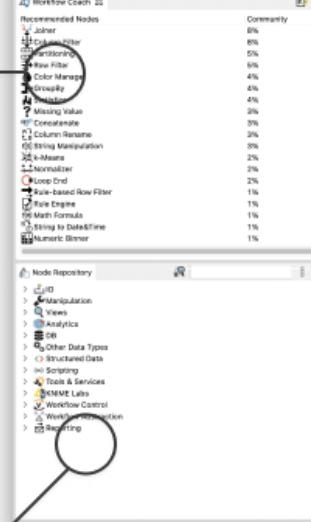
Workflow Coach

Lists node recommendations based on the workflows built by the wide community of KNIME users.



Node Repository

All available nodes in KNIME Analytics Platform to build your workflows.



Workflow Editor

Canvas for editing the currently active workflow.

KNIME Hub

Access to KNIME Hub to drag and drop nodes, components, workflows or extensions.

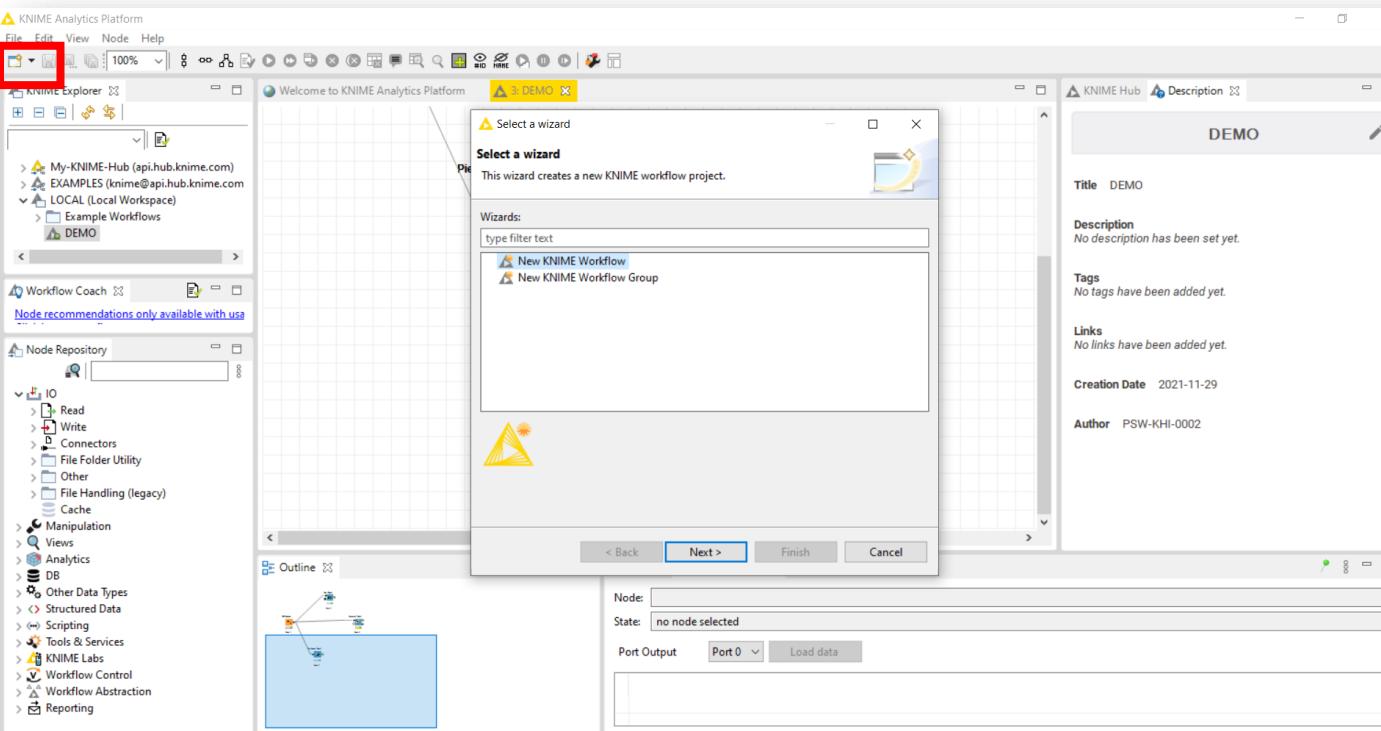
Description

Description of the active workflow or a selected node.

Node Monitor

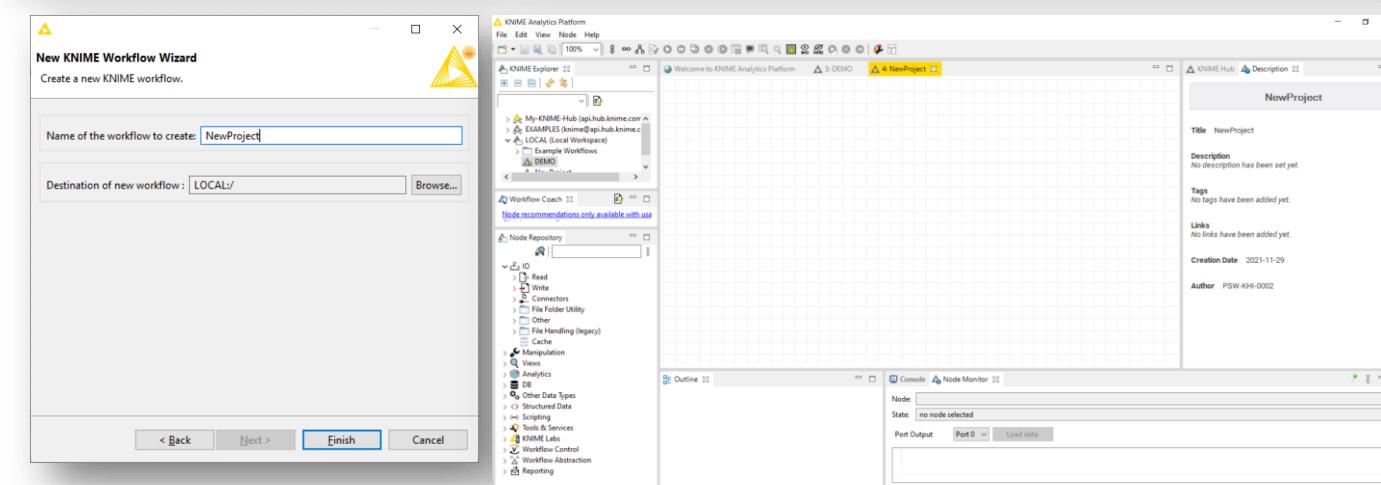
Shows the current flow variable values or a preview of the output data of the selected node.

CREATING FIRST WORK FLOW

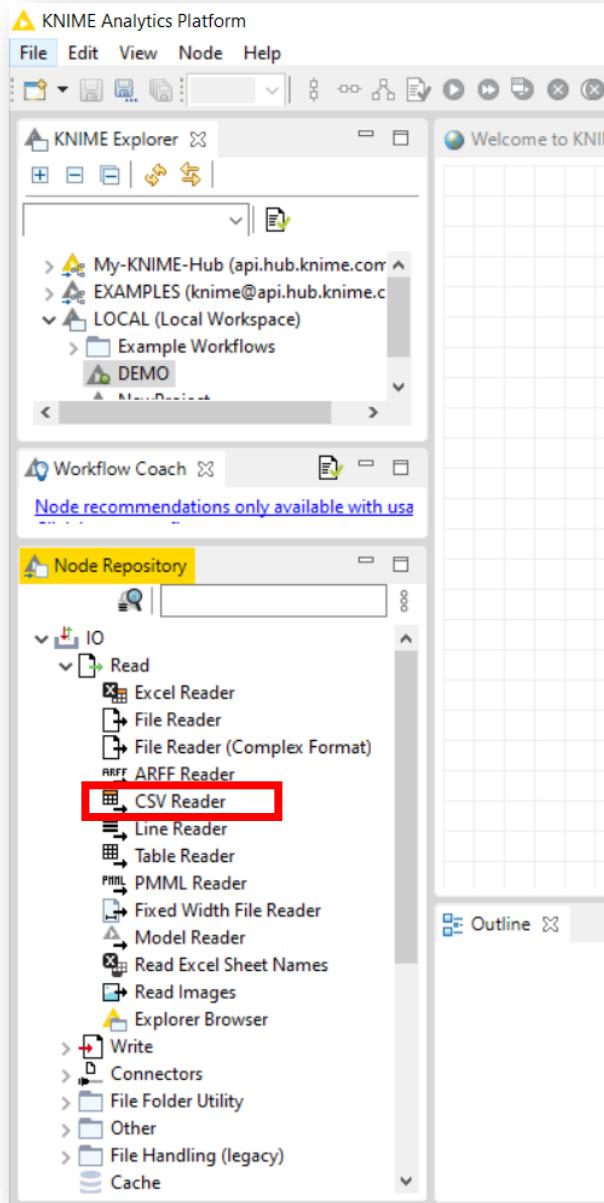


Steps

- Click on New window.
- Wizard Appear
- Select new KNIME Window
- Add Name of the project
- New Canvas is created



CREATING FIRST WORK FLOW



Steps

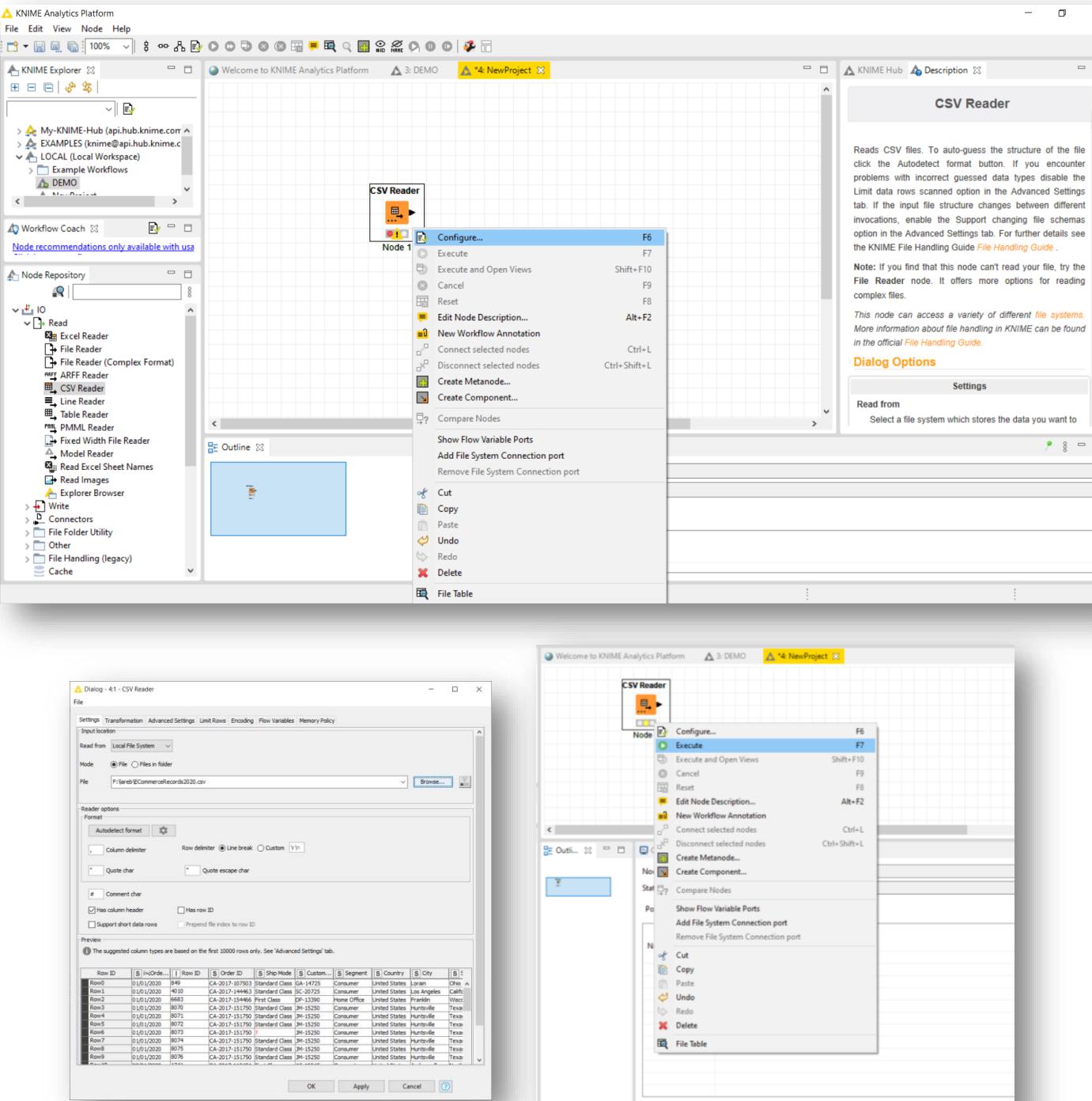
• TASKS

- Load data from csv Format file.
- Visualize the data on different representing Graphs

• STEP 1: Load data from csv Format file.

- On the Left Panel of Canvas we have Node Repository
- Select the CSV Reader from the IO node to read and load data.

LOADING CSV DATA

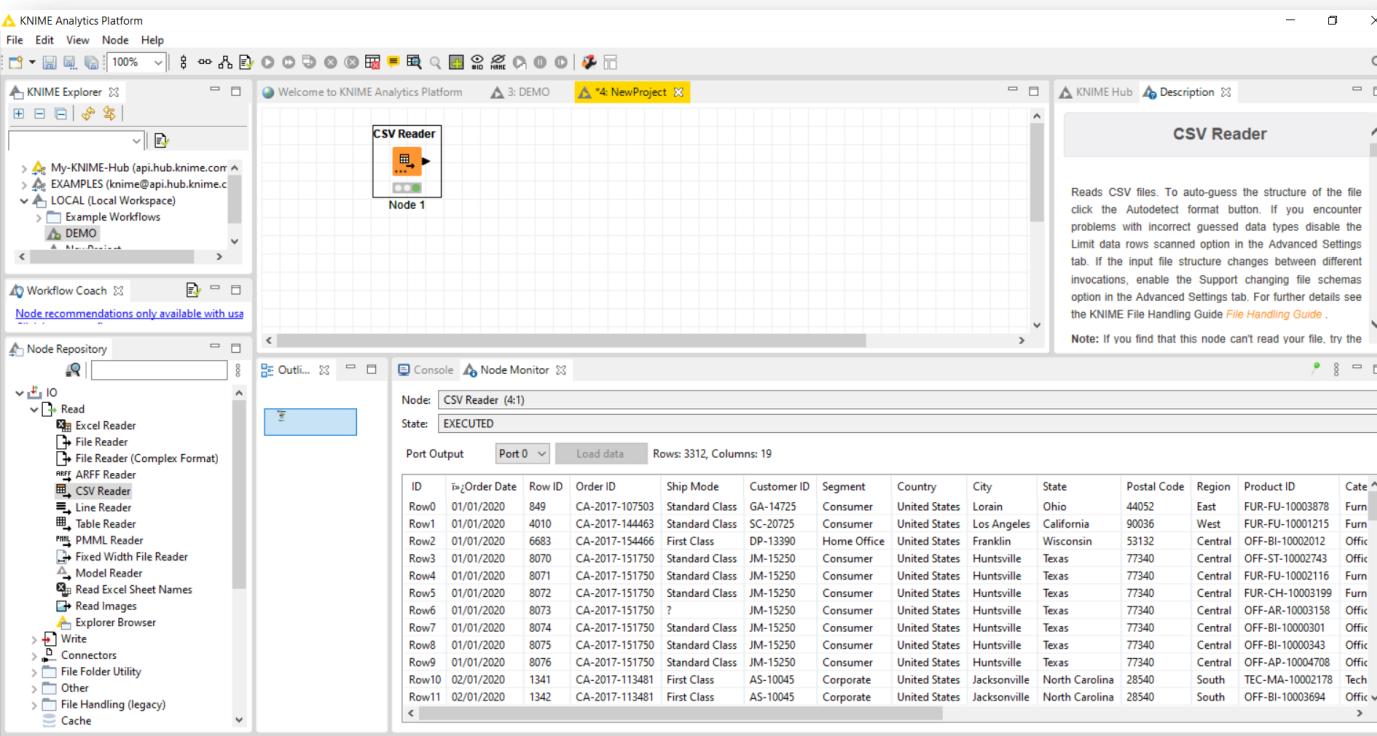


STEP 1:

- Drag and drop **CSV READER** node on the Canvas.
- Right Click to configure the file.
- Wizard Will appear.
- Select File Path and File to Load.
- Data will be loaded and displayed below in the wizard.

To create the **WORKFLOW**
we have to **Execute** the node
to load data and to use it in
further transections.

LOADING CSV DATA



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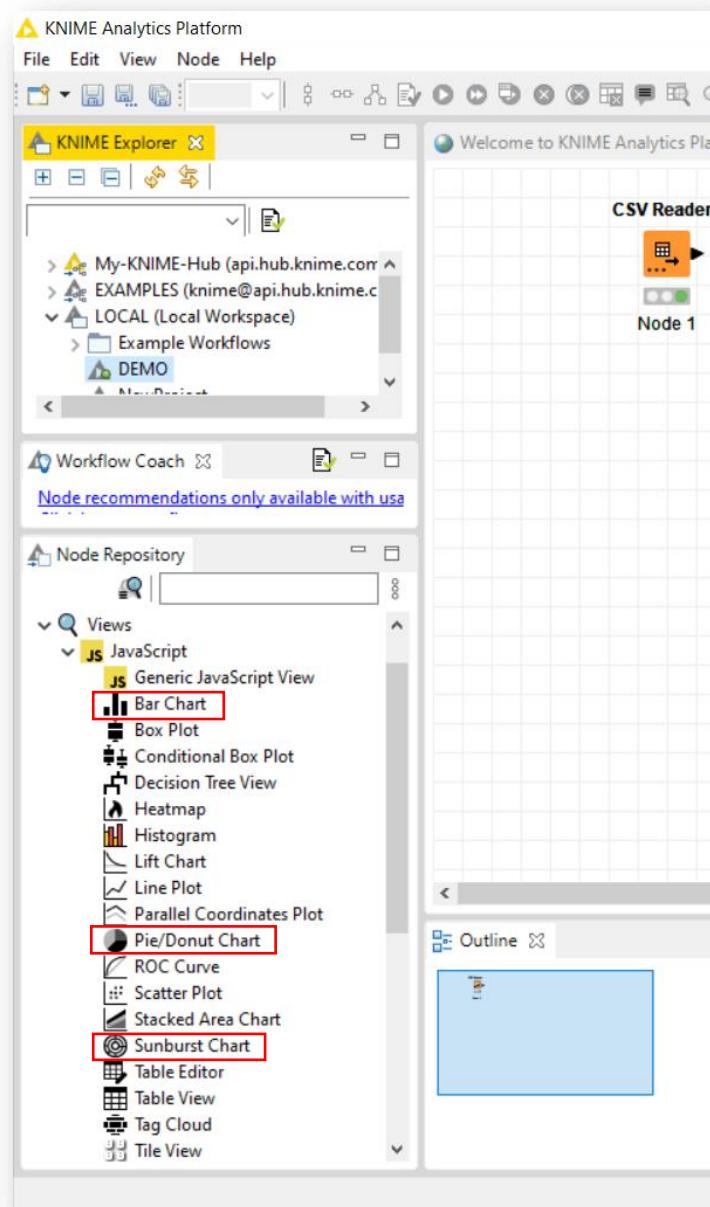
DATA IS LOADED
AGAINST THE NODE
AND CAN BE VISIBILE IN
THE NODE MONITOR.

STEP 2

VISUALIZING DATA

- In node Repository there is a node **VIEWS** where there are various graphs for visual Representation of data.
- We will be using three graphs to represent Relation between data.
 - BAR Chart
 - Pie/Donut Chart
 - Sunburst Chart

VISUALIZING DATA



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VISUALIZING DATA

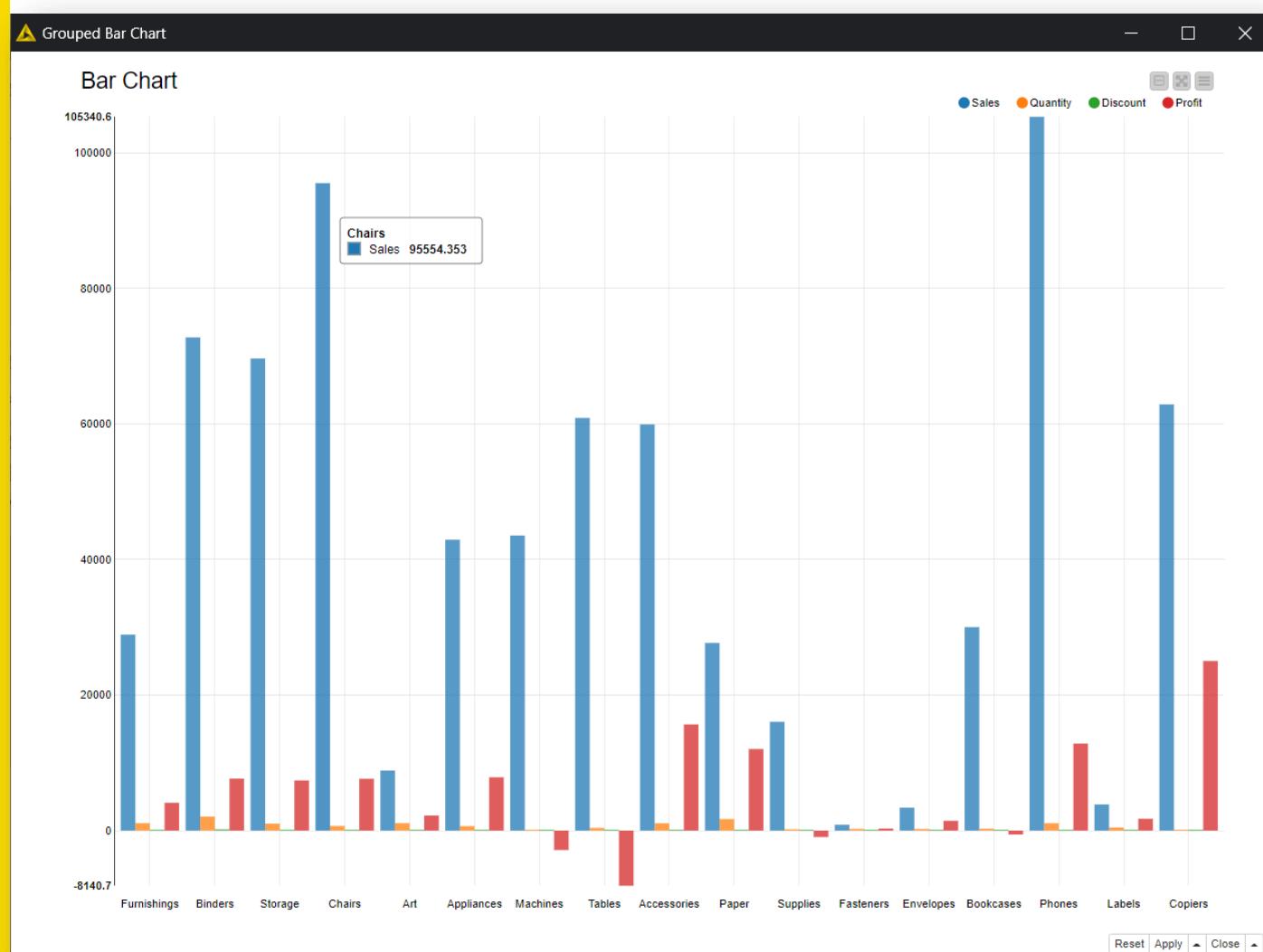
The screenshot shows the KNIME Analytics Platform interface. On the left, the Node Repository panel is open, displaying various chart types under the 'Views' category, including Bar Chart, Box Plot, Conditional Box Plot, Decision Tree View, Heatmap, Histogram, Lift Chart, Line Plot, Parallel Coordinates Plot, Pie/Donut Chart, ROC Curve, Scatter Plot, Stacked Area Chart, Sunburst Chart, Table Editor, Table View, Tag Cloud, and Tile View. A 'Bar Chart' node is selected in the center workspace, connected to a 'CSV Reader' node (Node 1) and another 'Bar Chart' node (Node 2). A context menu is open over Node 2, with the 'Execute and Open Views' option highlighted in blue. To the right of the workspace is the KNIME Hub panel, which provides detailed information about the selected 'Bar Chart' node, including its configuration options for categories, aggregation methods, and interactivity. The bottom part of the image shows a close-up of the 'Bar Chart' configuration dialog, specifically the 'General Plot Options' tab, where two filter lists are shown: one red-bordered list containing 'Row ID' and 'Postal Code' with 'Enforce exclusion' checked, and one green-bordered list containing 'Sales', 'Quantity', 'Discount', and 'Profit' with 'Enforce inclusion' checked.

BAR CHART

This graph explains and visualize the

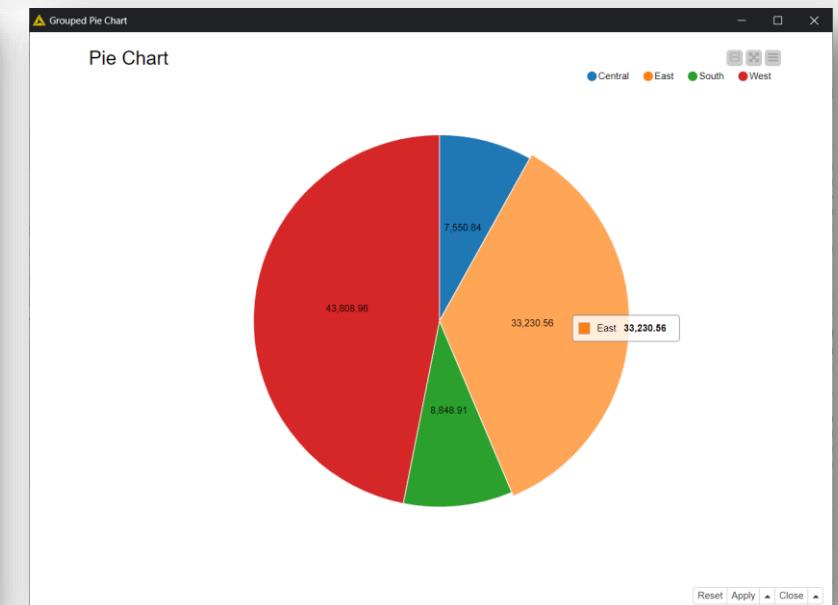
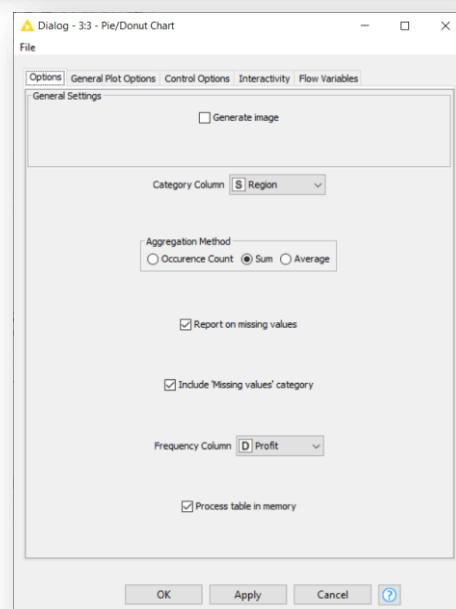
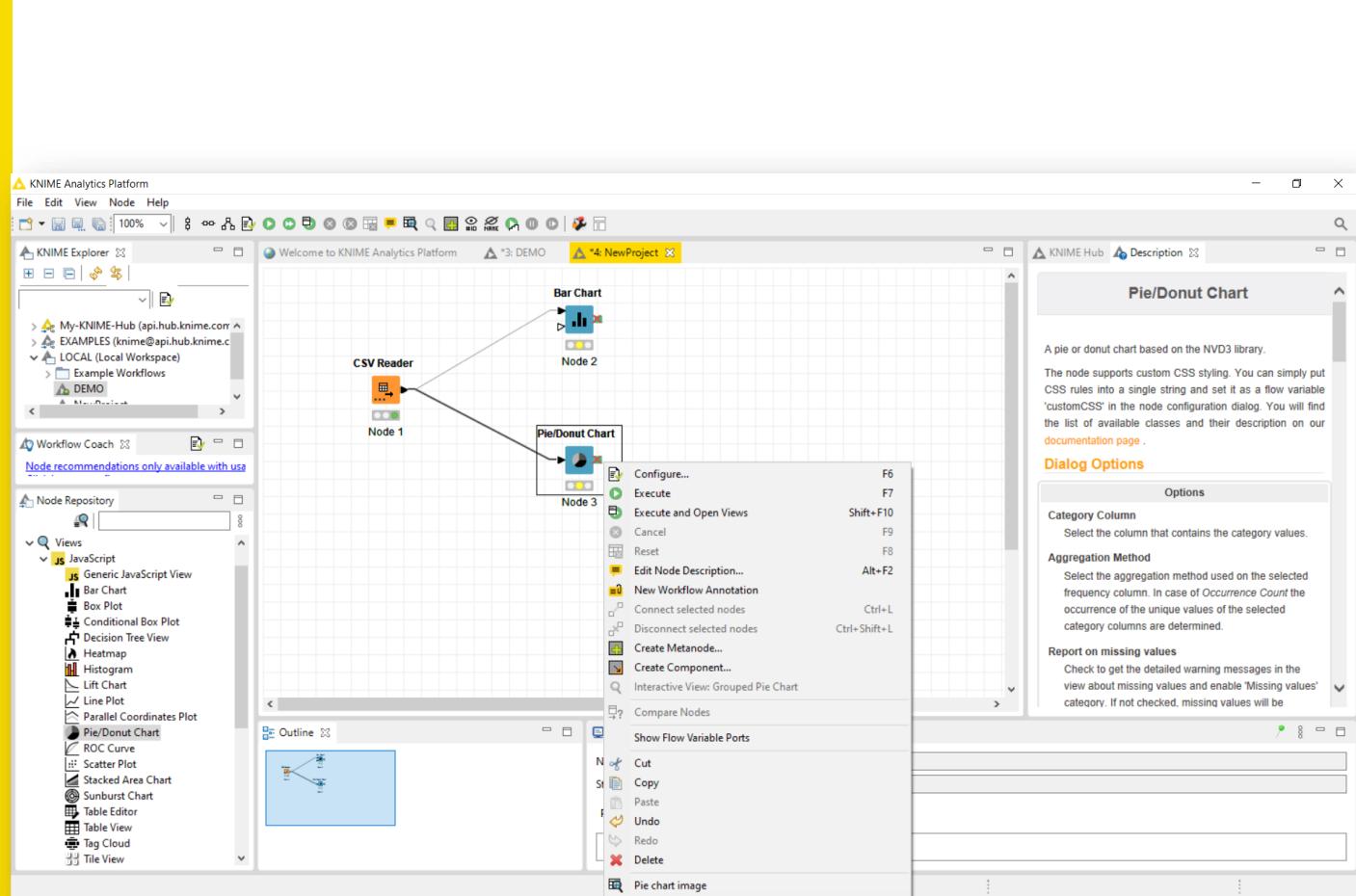
- SALES
- QUANTITY SOLD
- DISCOUNT AVAILED
- PROFIT PRODUCED

By each Sub-category



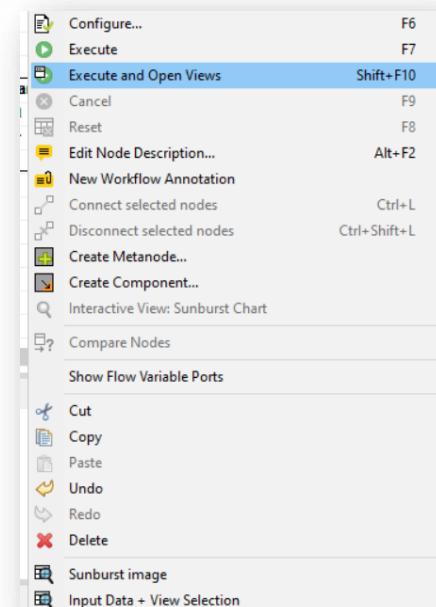
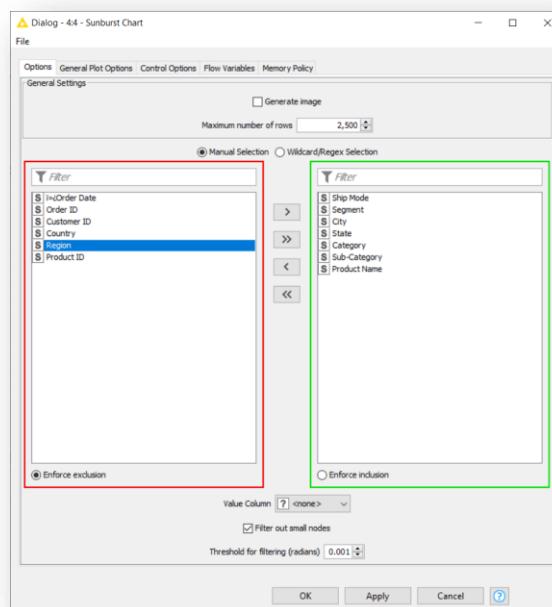
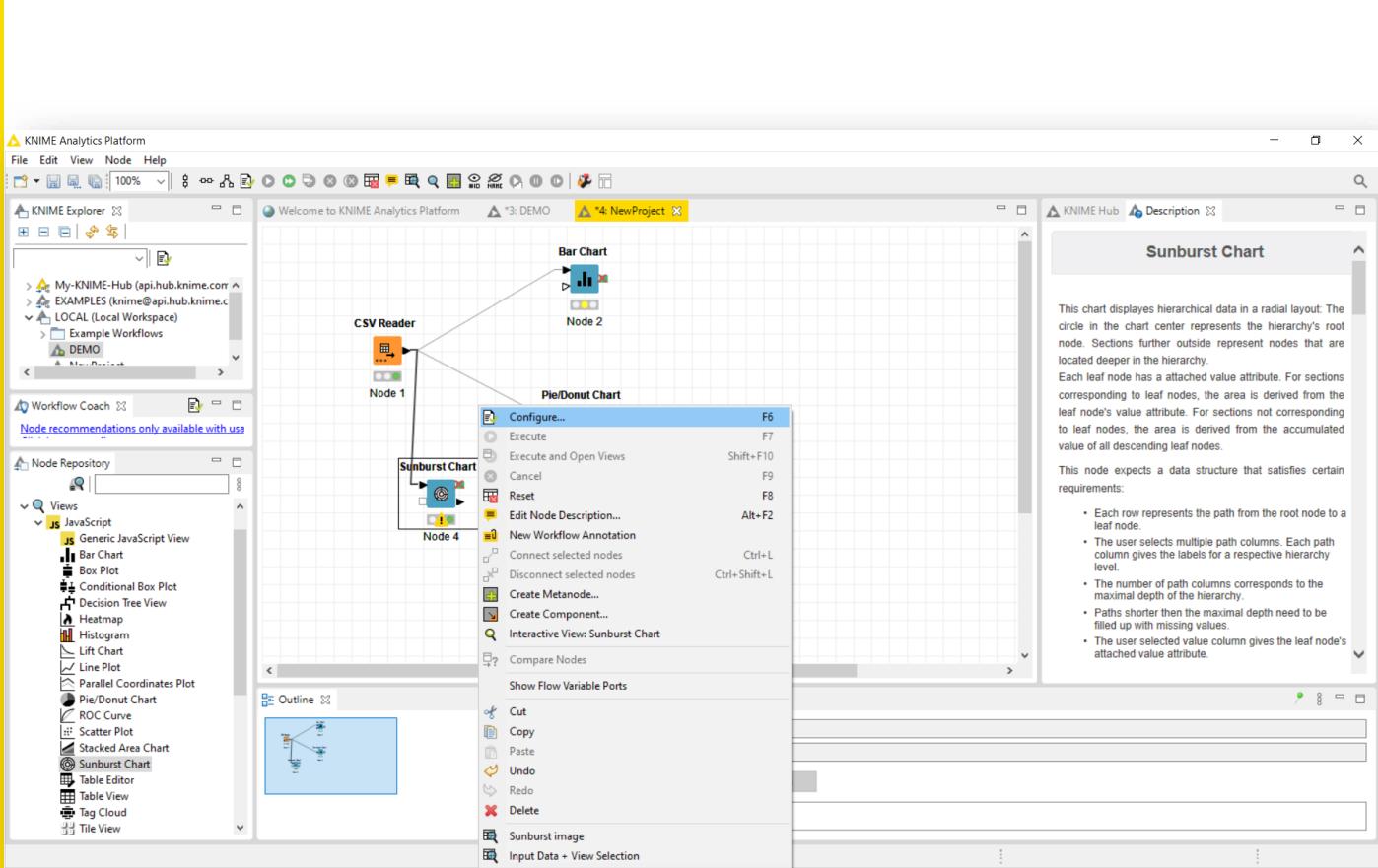
PIE/DONUT CHART

This graph explains
and visualize
REGION WISE PROFIT
generated throughout
the year.



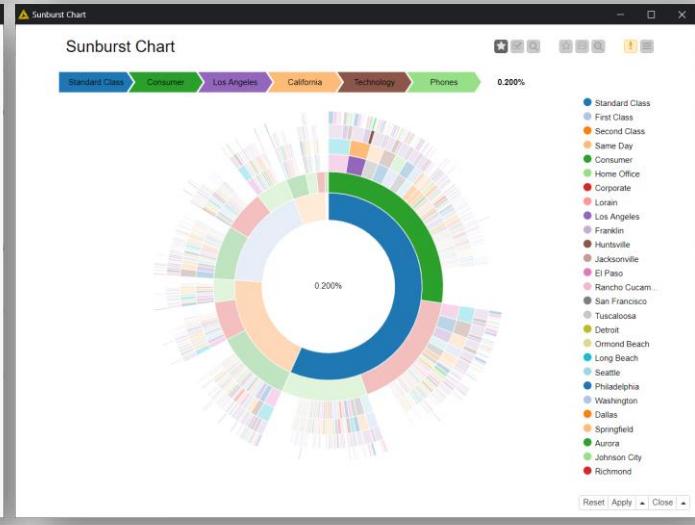
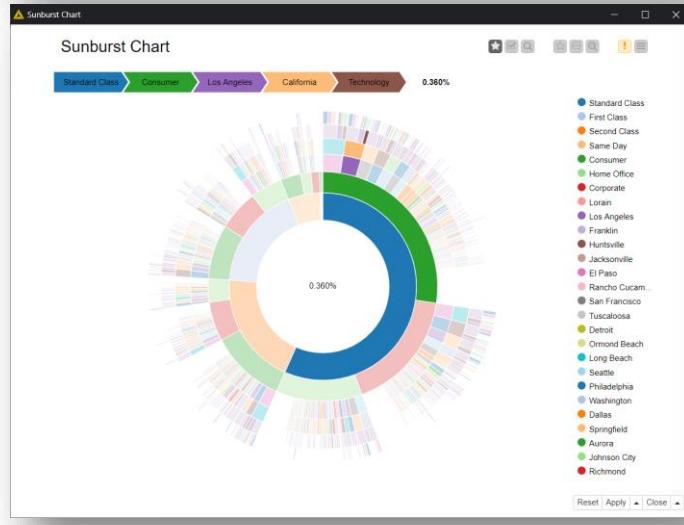
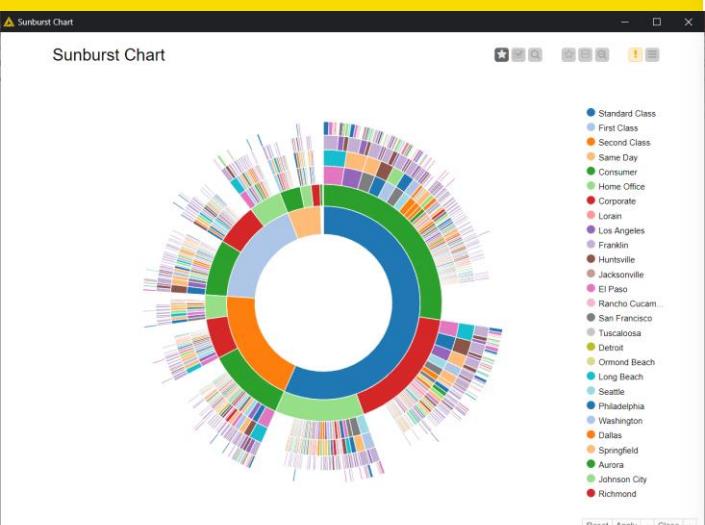
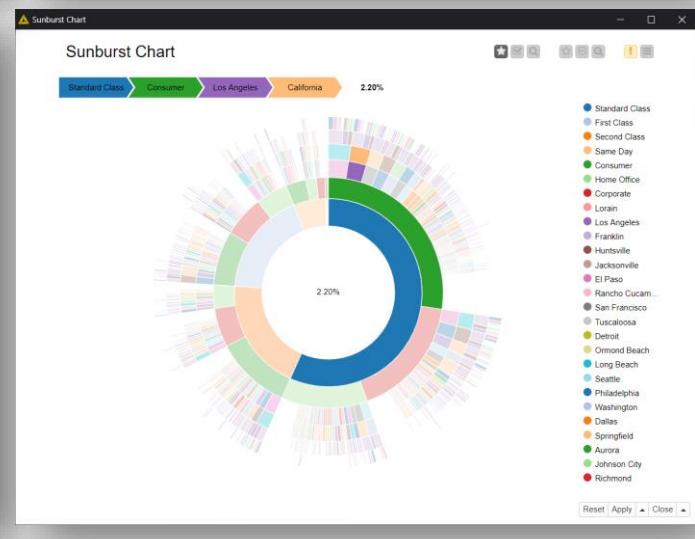
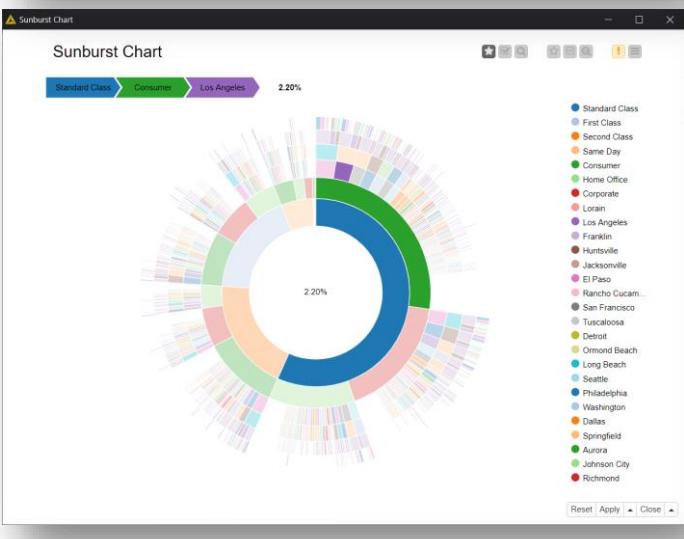
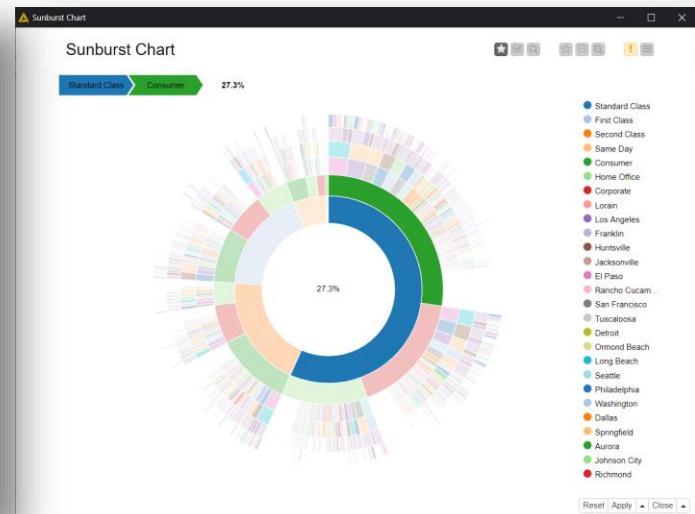
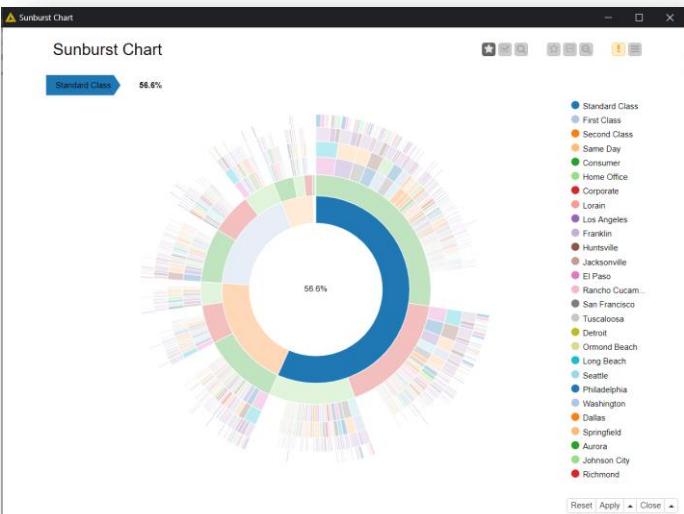
SUNBURST CHART

- Select the Sunburst Graph from VIEW node.
- Create link of input data to the graph input node.
- Configure the graph by selecting the attributes to the drilled down level in the wizard.
- Apply Configurations.
- Execute and open view.



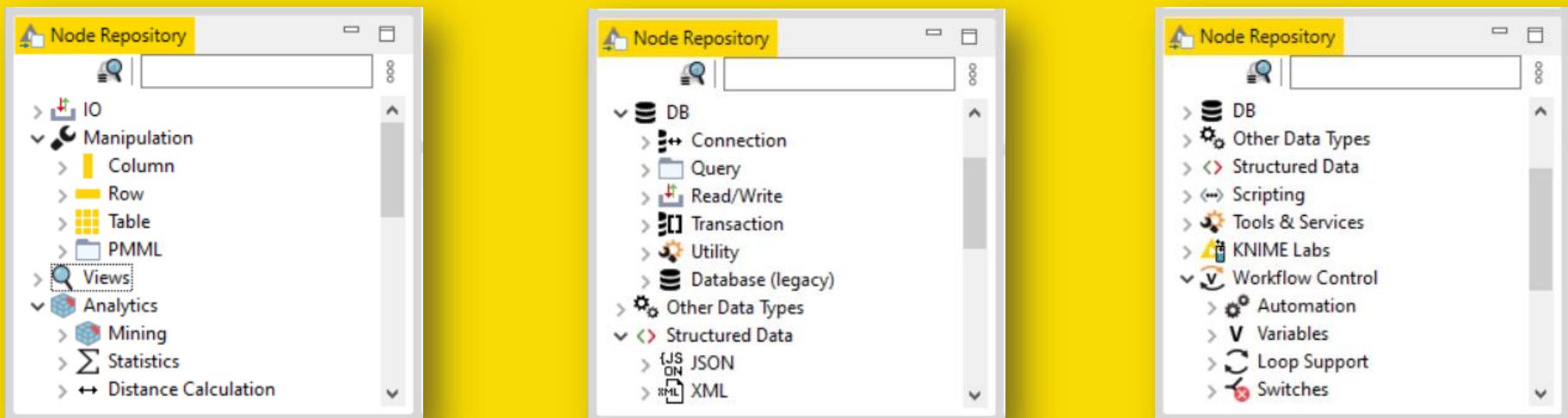
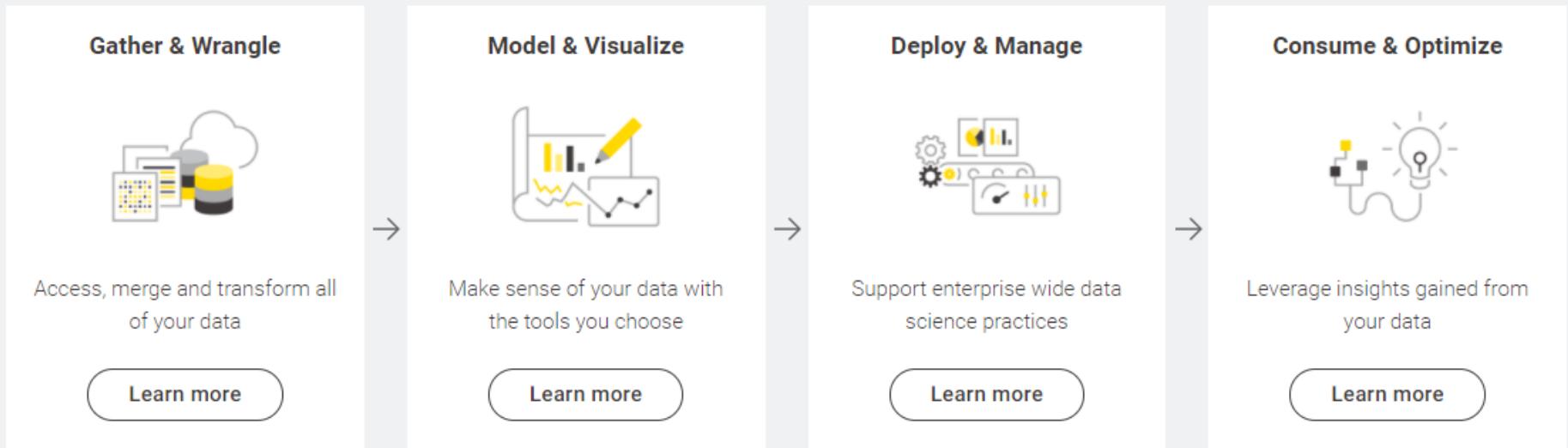
SUNBURST CHART

- Each layer shows its probability starting from the major to most divided category.



How can KNIME Software help you?

Create → Productionize



AND LOT MORE FUNCTIONALITIES ARE PROVIDED TO PERFORM DATA SCIENCES.