



KNIME Today

-Hot New Features-

Bernd Wiswedel

KNIME.com GmbH, Zurich, Switzerland

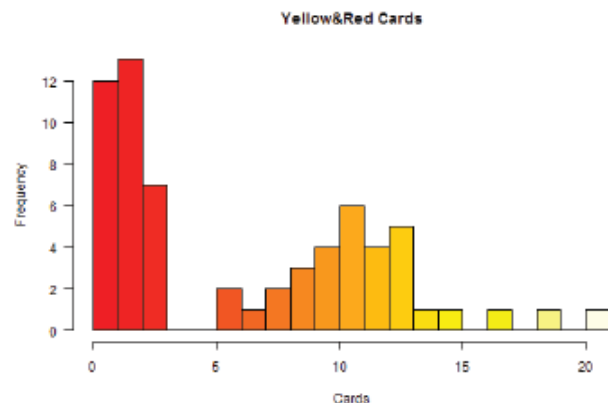


Outline





- New Features added in recent months
- Instead of a (long) list: (pseudo) demo.

Example Report integrating R views.

There are two different types of data sets in this report. The first one is a plain R visualization using the "Image to Report" node. It is used for single images:



The second type of image input is using a plain table containing images. The spider plots below were generated using the `R View` node in a workflow loop. In each iteration of the loop a single row was processed and a spider plot was generated:

	Games	Yellow	Red	Fouls	Country	Radarplot
SCG	3	12	2	59		
GER	6	10	0	110		

	Games	Yellow	Red	Fouls	Country	Radarplot
FRA	6	13	0	101		
ESP	4	6	0	71		
CZE	3	7	2	53		
NED	4	16	2	85		
ITA	6	10	2	89		
CRO	3	11	2	59		



The Data

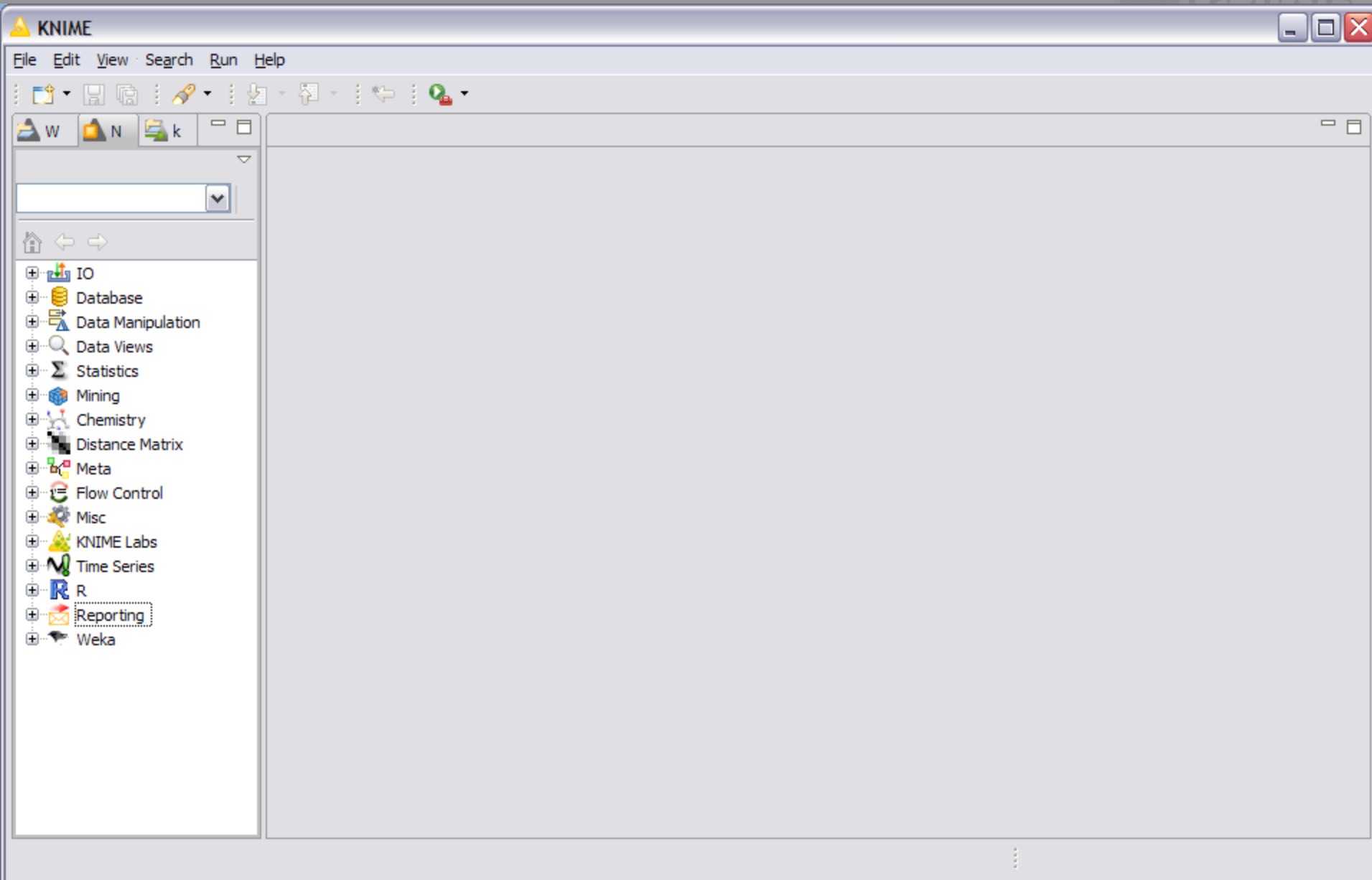


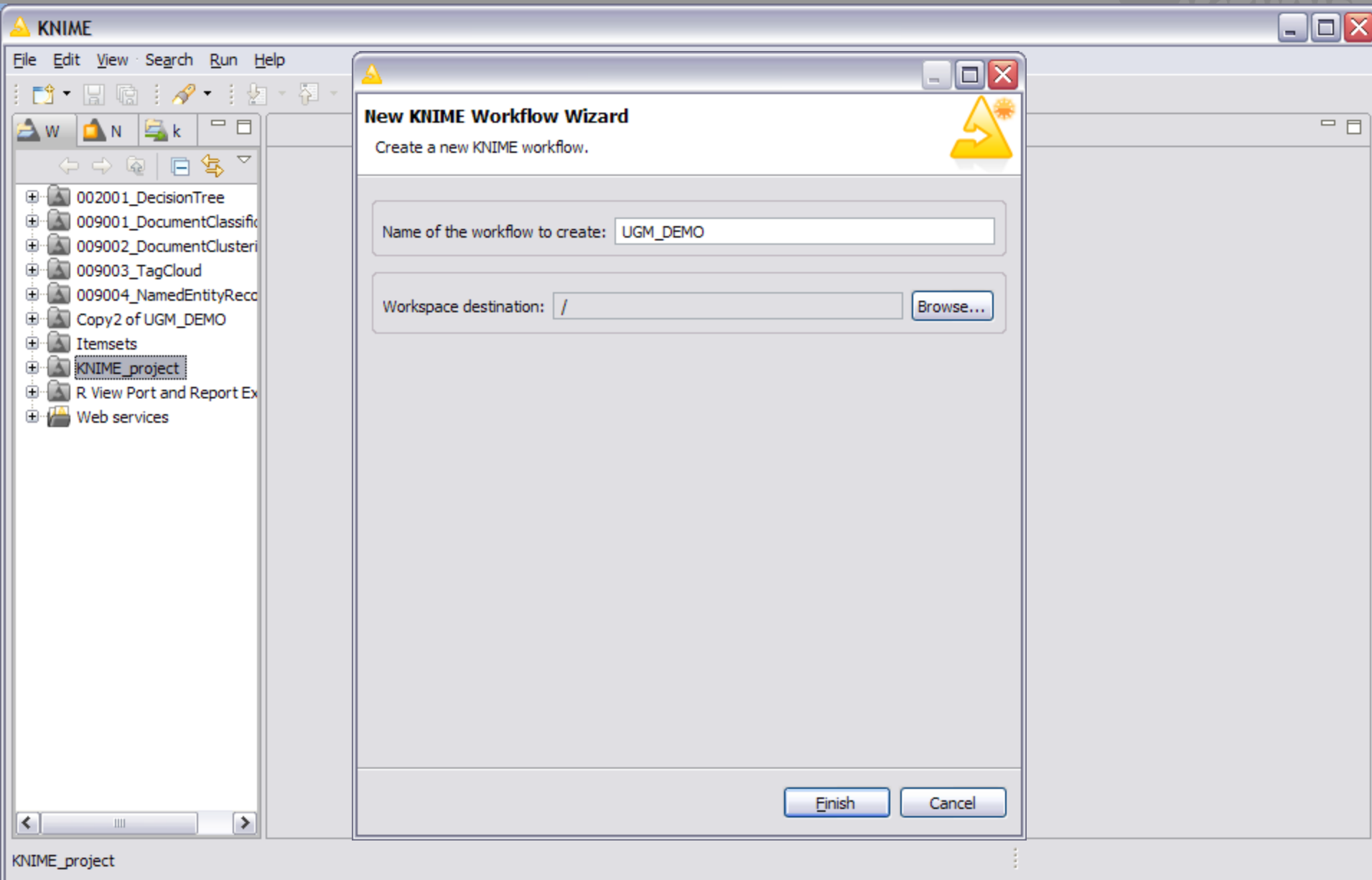
Version 2.3.1
(Build January 19, 2011)

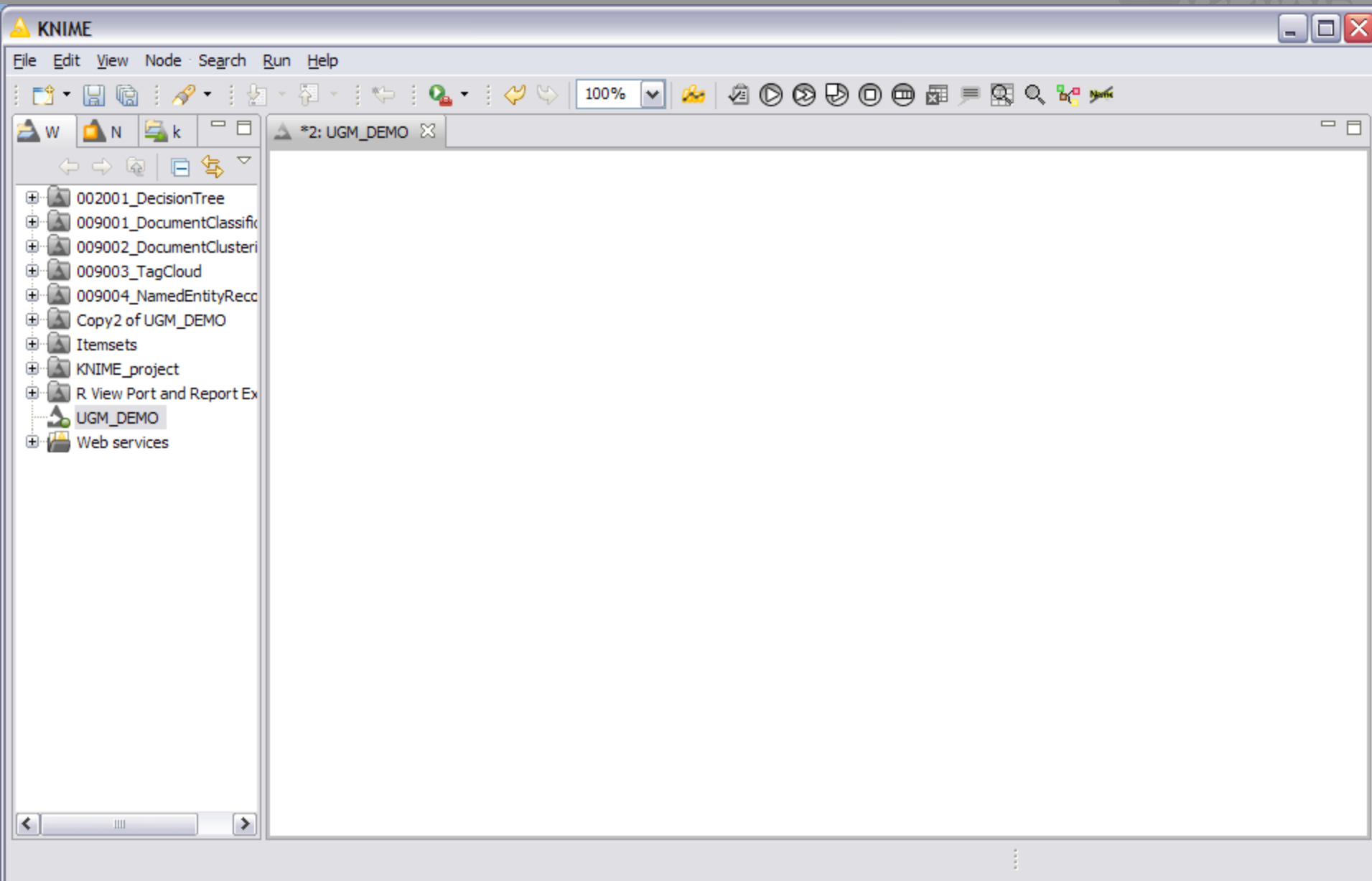
Loading org.knime.workbench.repository

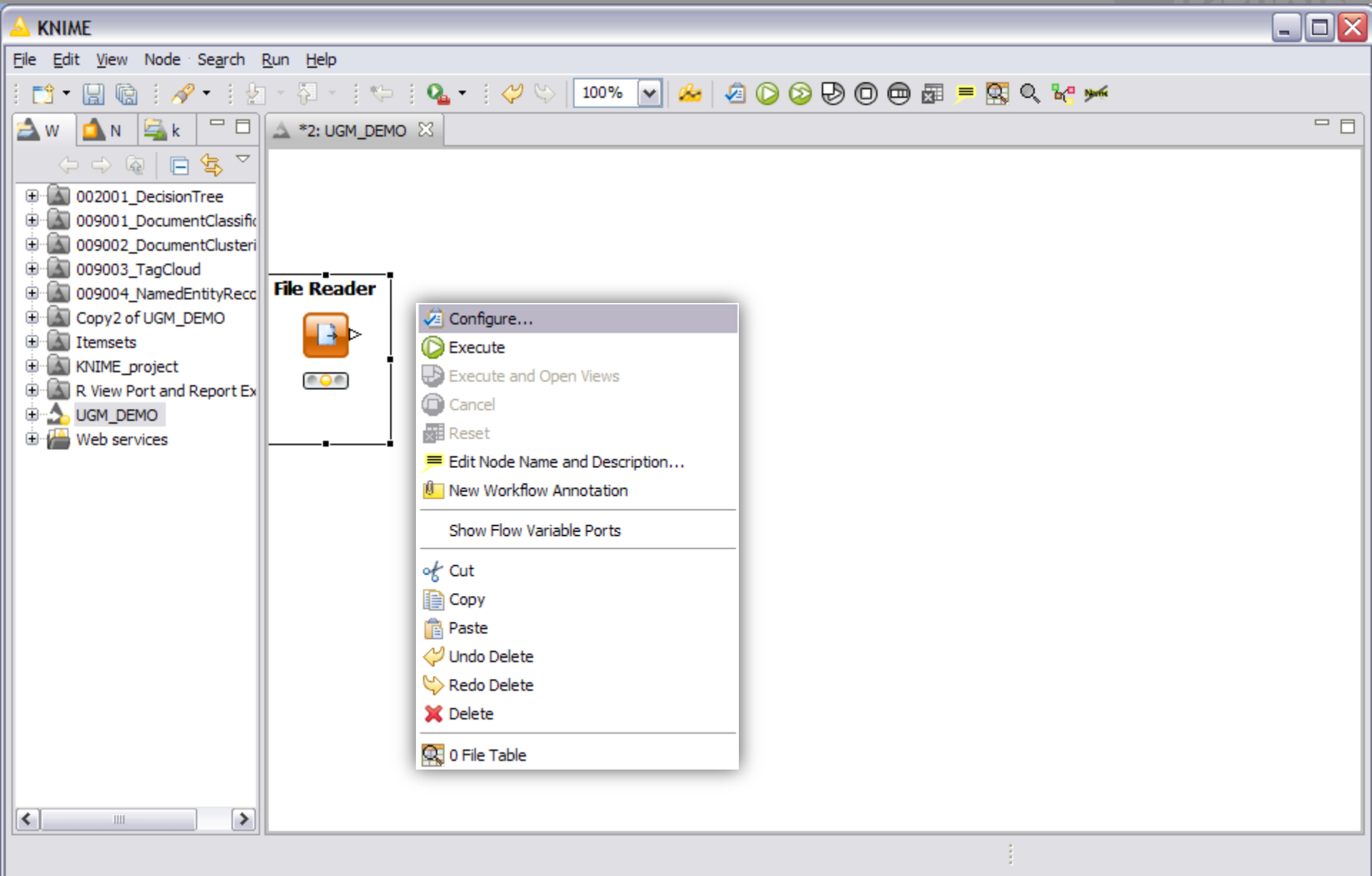


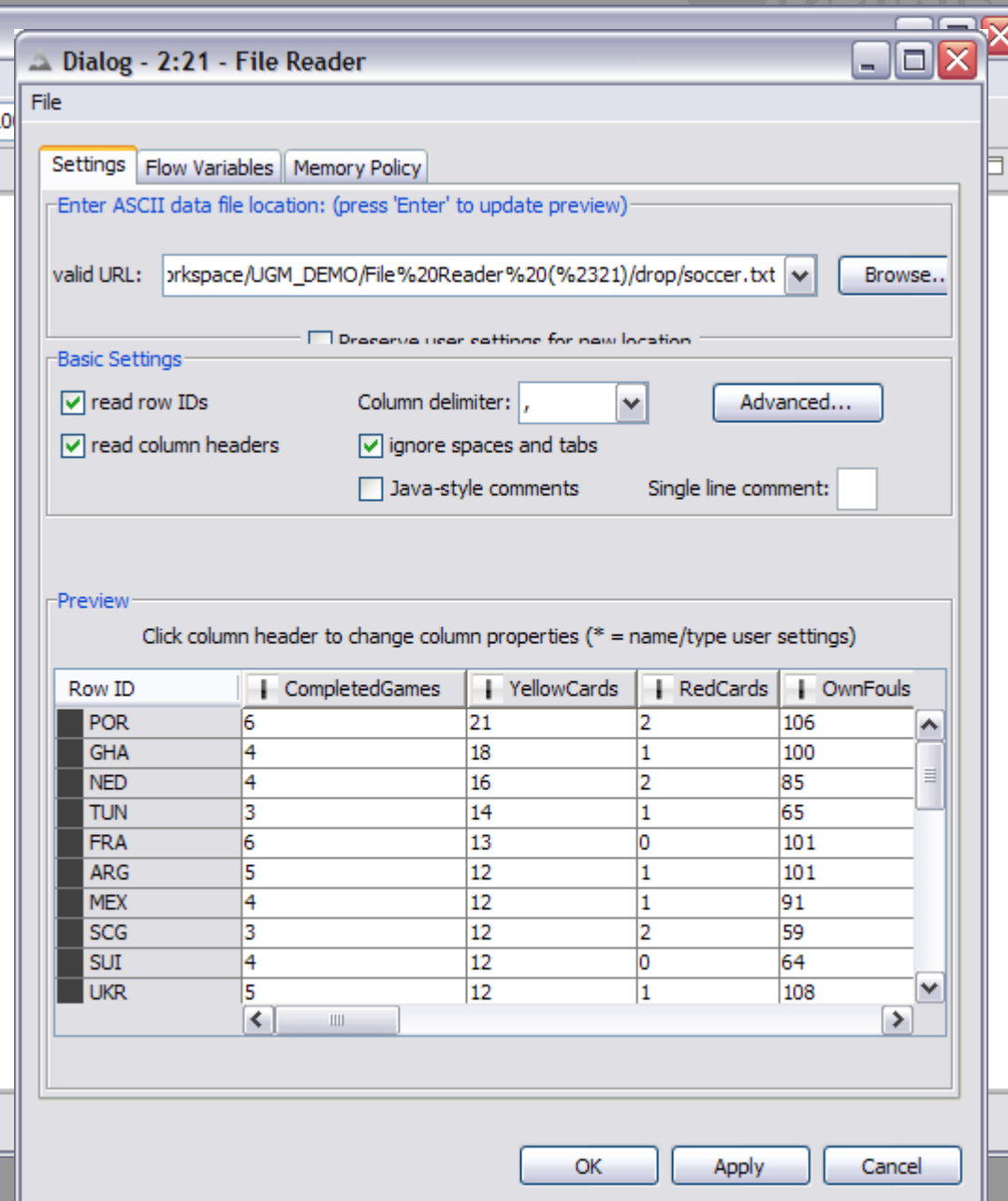
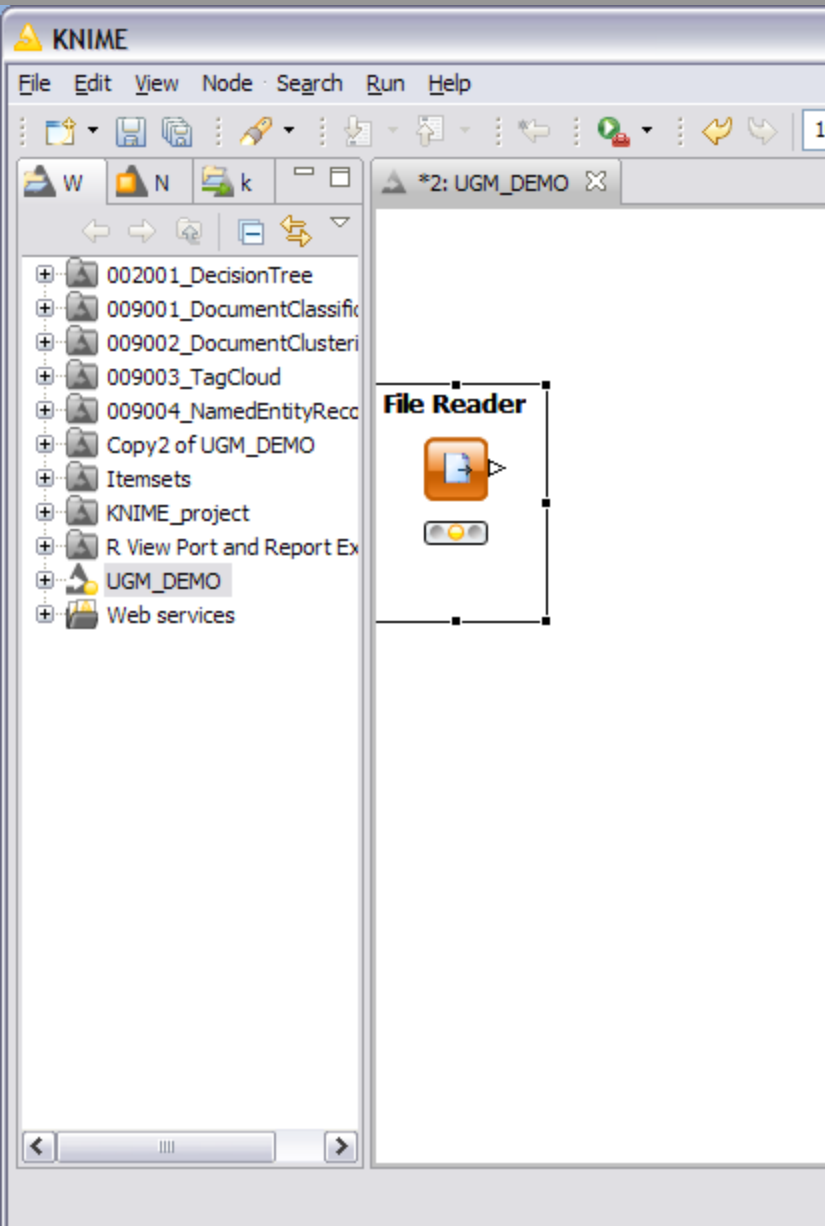
Copyright, 2003 - 2011, KNIME GmbH, Germany, <http://www.knime.org/>, contact@knime.org

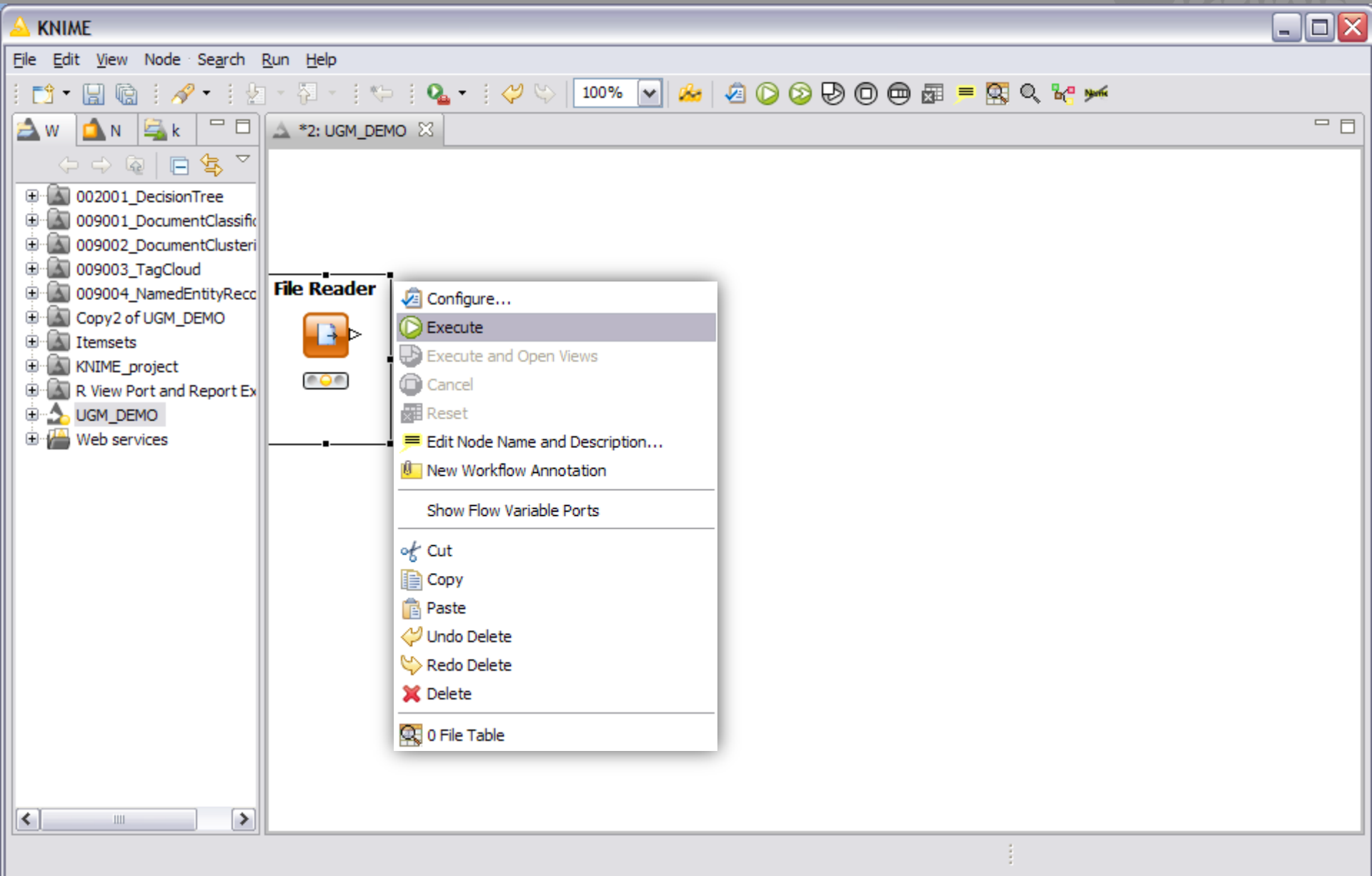


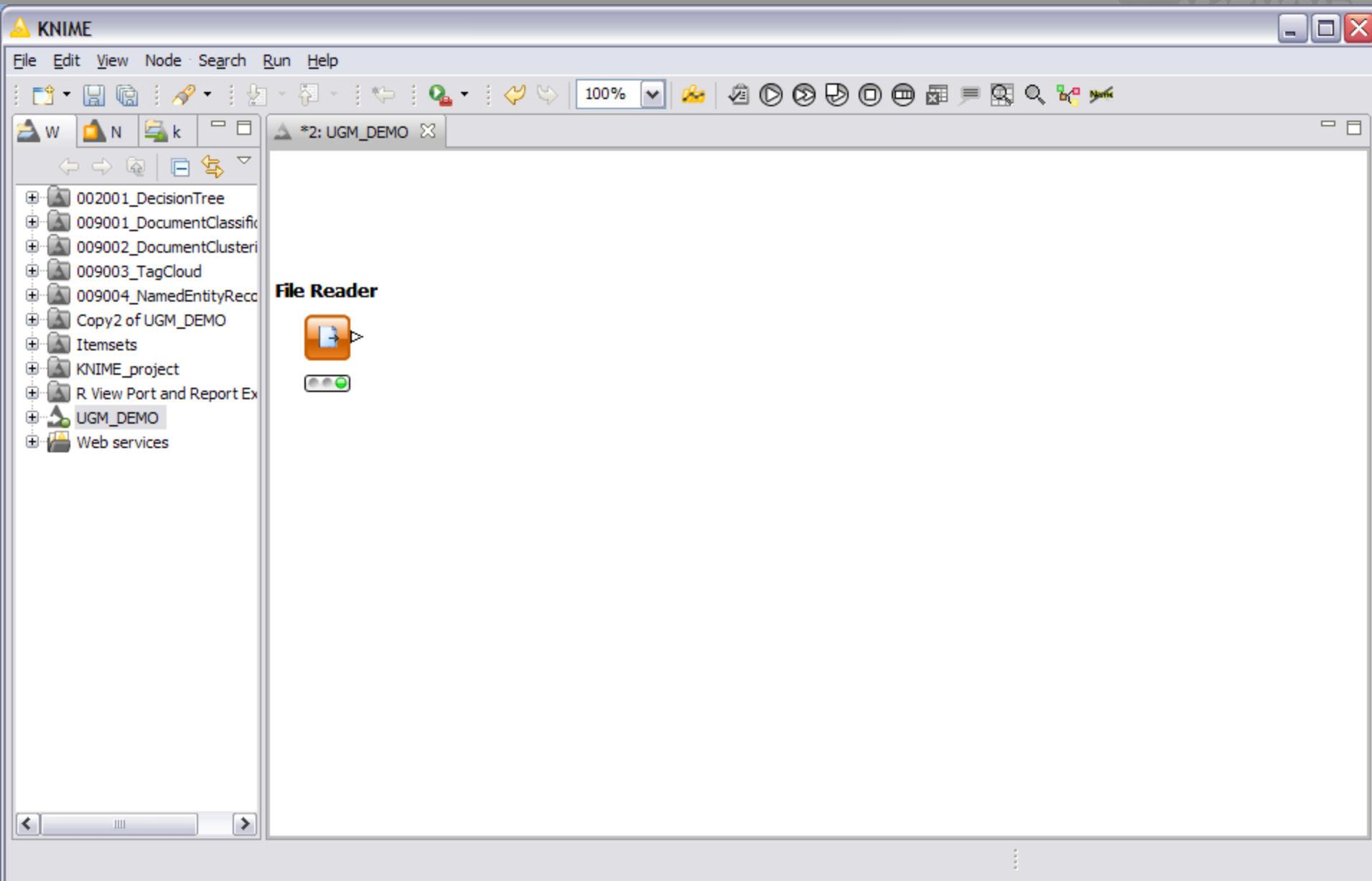


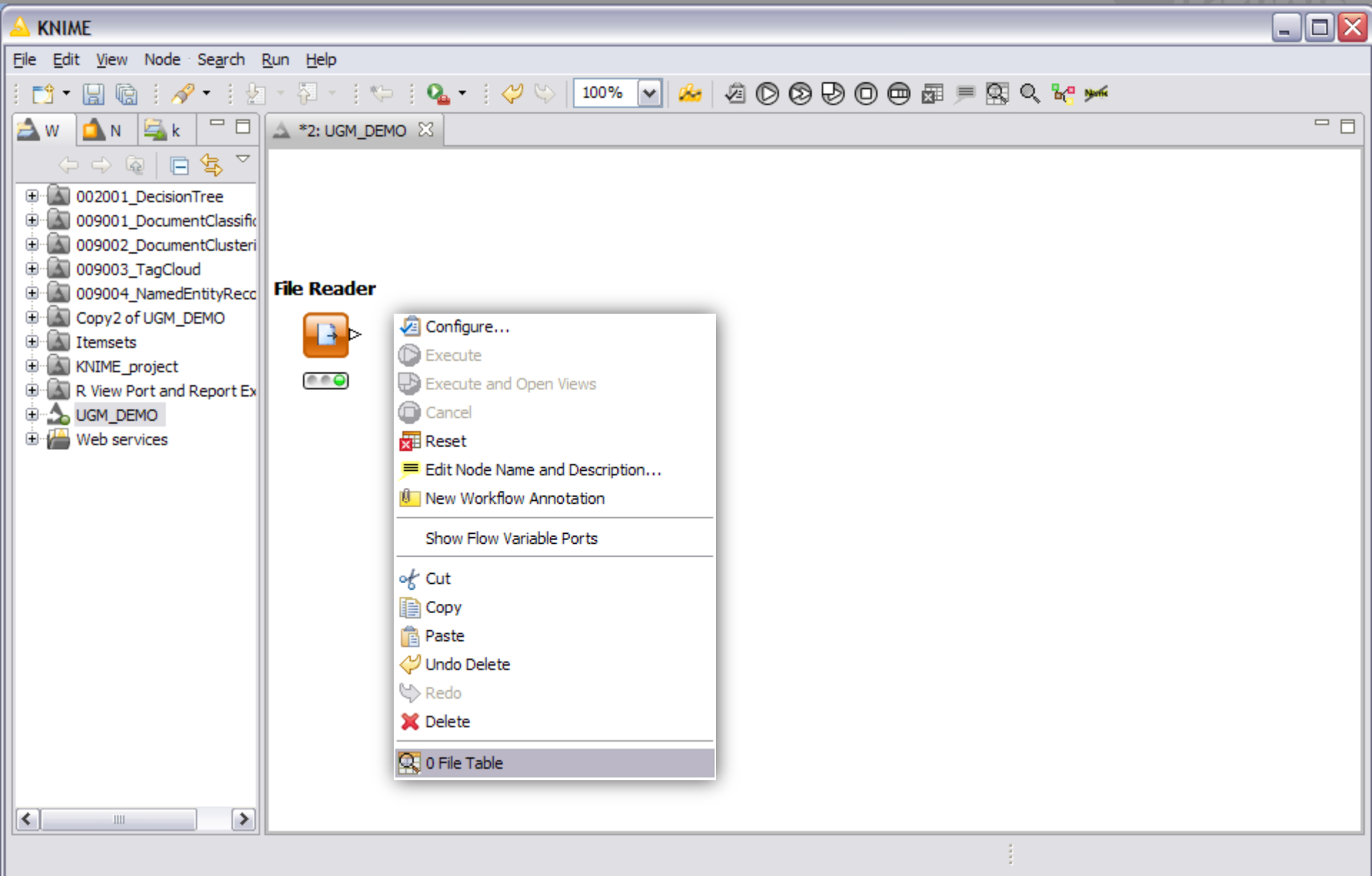


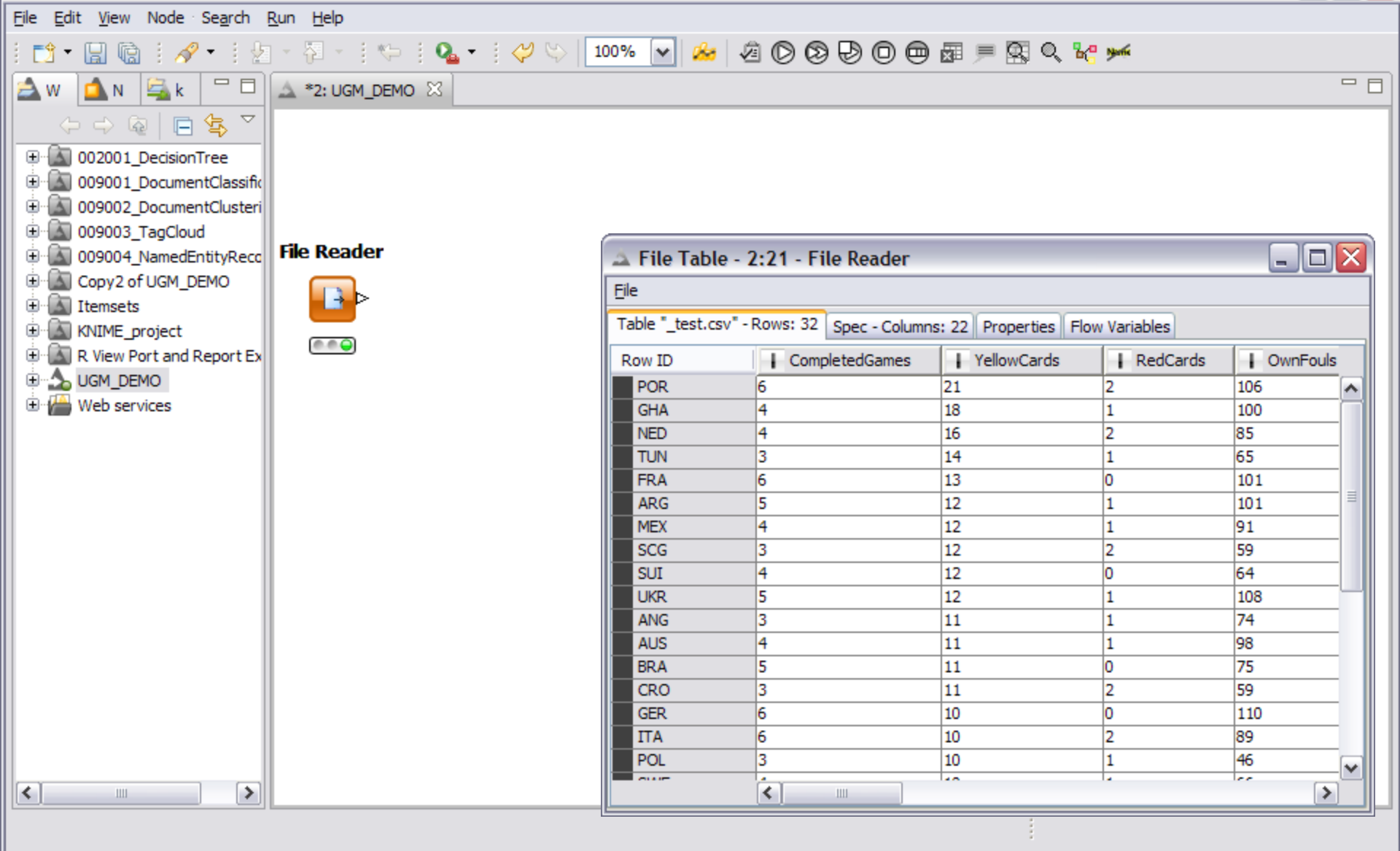


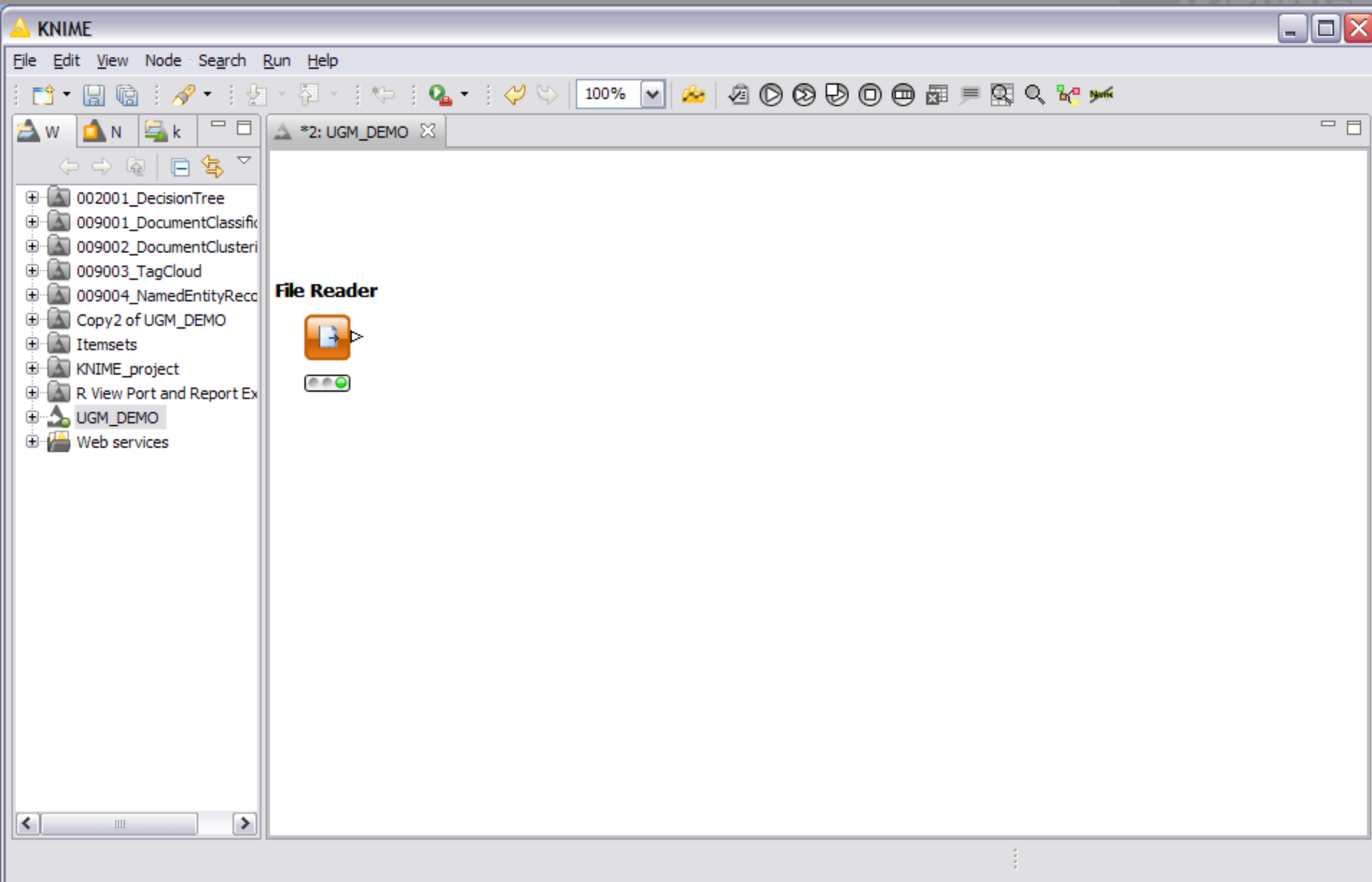















KNIME

File Edit View Node Search Run Help


100%

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*2: UGM_DEMO

Execute all executable nodes (Shift+F7)

+
002001_DecisionTree

+
009001_DocumentClassific

+
009002_DocumentClusteri

+
009003_TagCloud

+
009004_NamedEntityRecco

+
Copy2 of UGM_DEMO



+
Itemsets



+
KNIME_project

+
R View Port and Report Ex

















+
UGM_DEMO

+
Web services

File Reader



Statistics





-  Configure...
 -  Execute
 -  Execute and Open Views
 -  Cancel
 -  Reset
 -  Edit Node Name and Description...
 -  New Workflow Annotation
 -  View: Statistics View
-
- Show Flow Variable Ports
-
-  Cut
 -  Copy
 -  Paste
 -  Undo Delete
 -  Redo
 -  Delete
-
-  0 Statistics Table
 -  1 Occurrences Table

KNIME

File Edit View Node Search Run Help

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002001_DecisionTree

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009001_DocumentClassific

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009002_DocumentClusteri

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009003_TagCloud

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009004_NamedEntityReco

+

Copy2 of UGM_DEMO

+

Itemsets

+

KNIME_project

+

R View Port and Report Ex

+

UGM_DEMO

+

Web services

*2: UGM_DEMO

File Reader

Statistics

Statistics View - 2:22 - Statistics

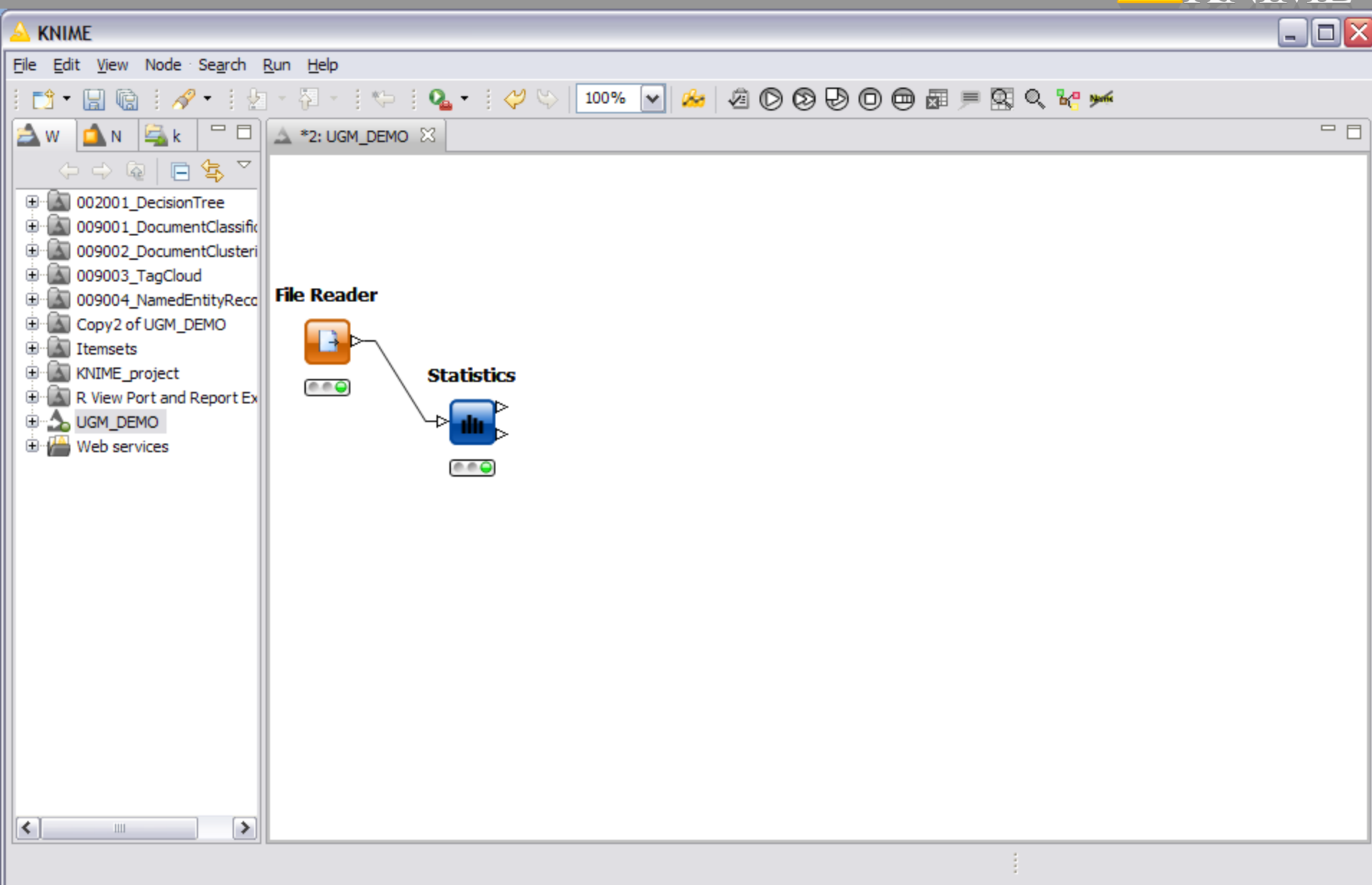
File

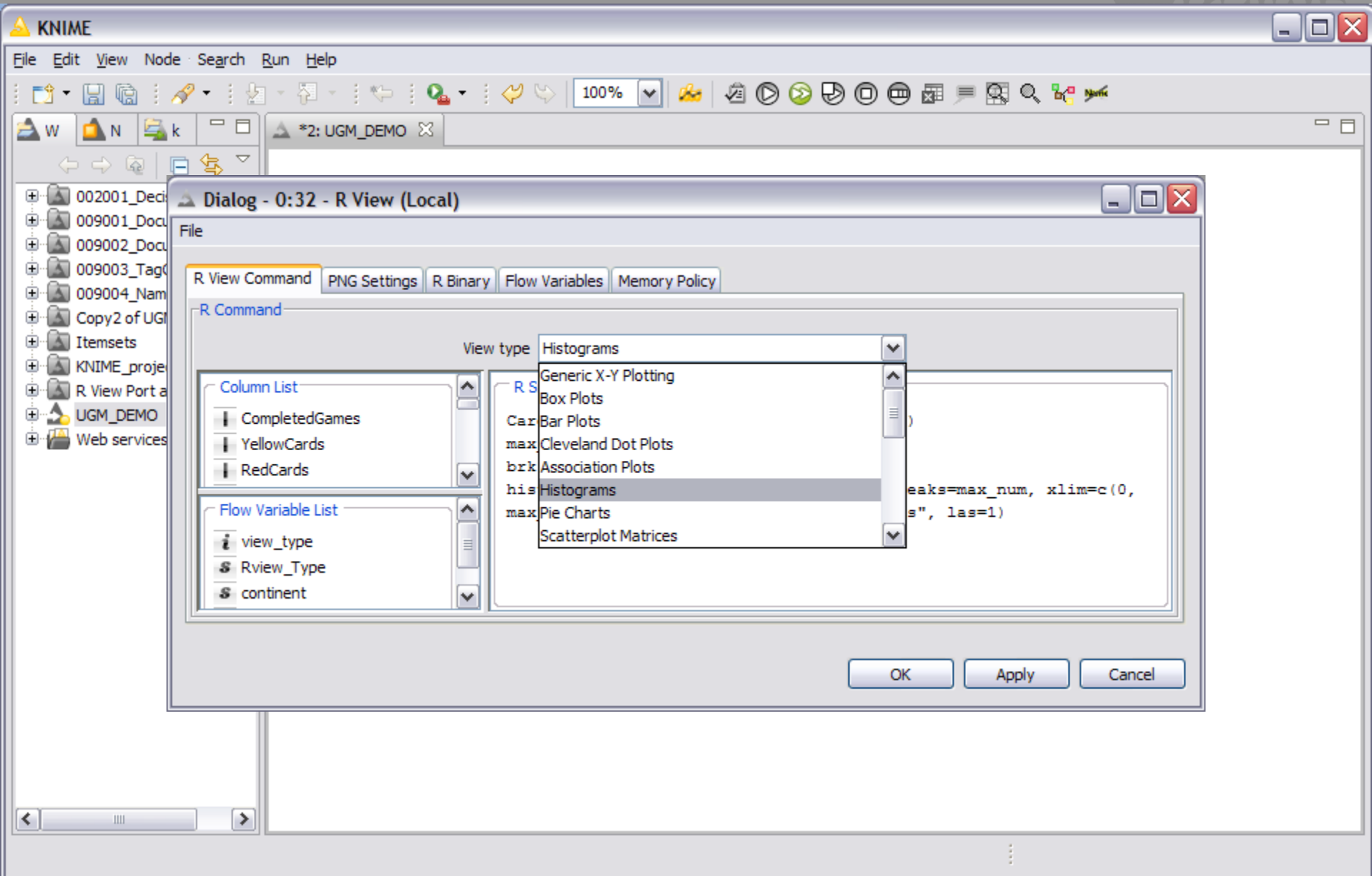
Numeric columns

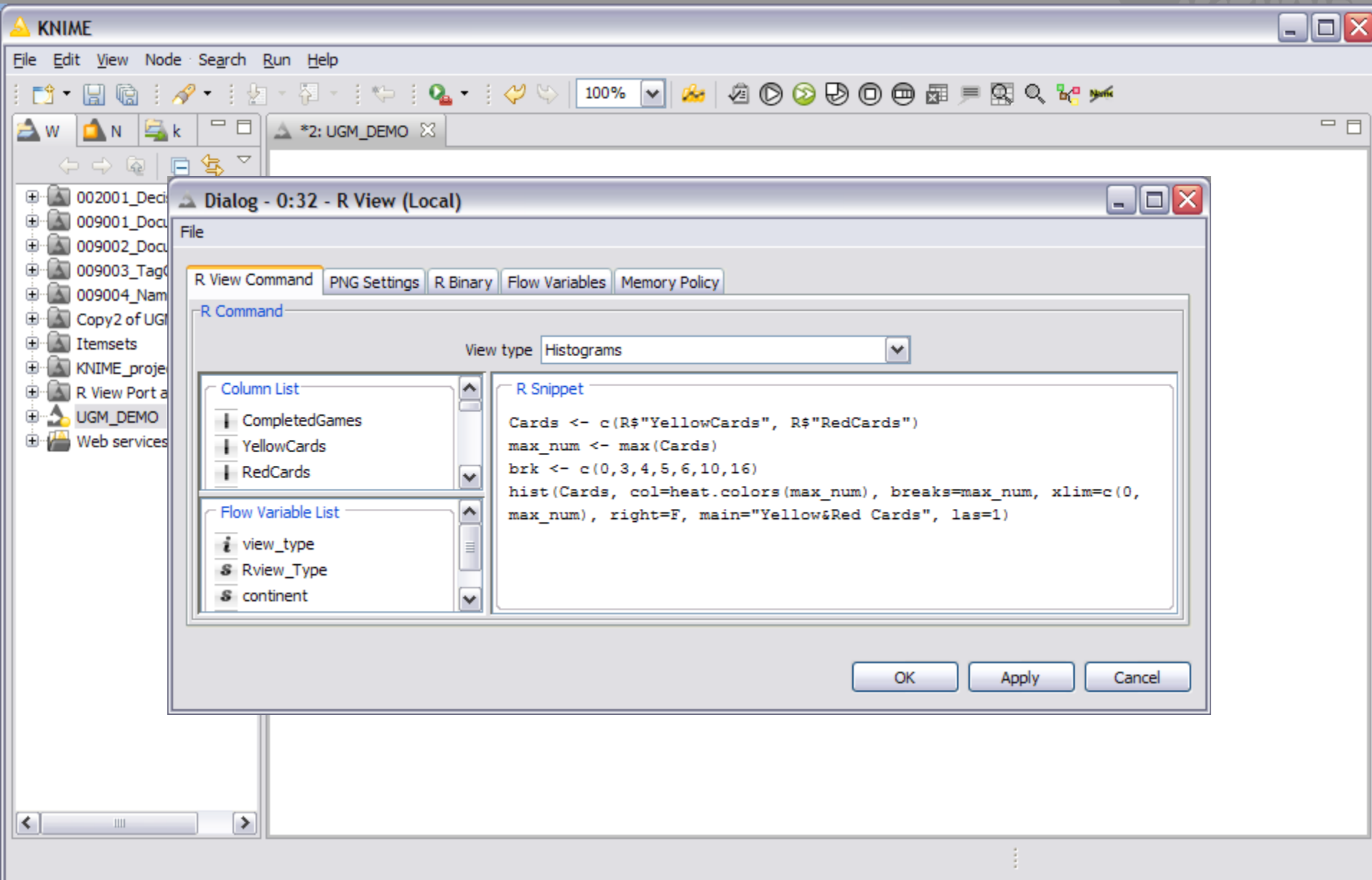
Nominal columns

Row ID	D CompletedGames	D YellowCards	D RedCards	D OwnFouls
Minimum	3	5	0	39
Maximum	6	21	2	110
Mean	3.875	10.5	0.844	71.188
Std. deviation	1.07	3.417	0.767	21.643
Variance	1.145	11.677	0.588	468.415
Overall sum	124	336	27	2,278
No. missings	0	0	0	0
Median	?	?	?	?

Using R Views







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File Edit View Node Search Run Help

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*2: UGM_DEMO

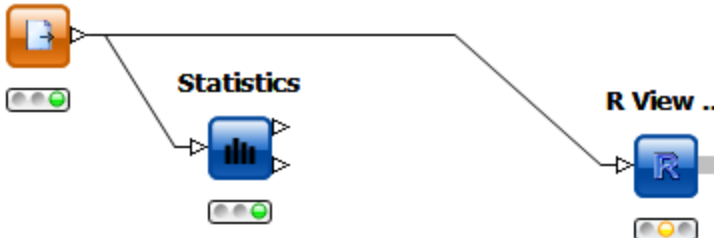
W N k

- 002001_DecisionTree
- 009001_DocumentClassific
- 009002_DocumentClusteri
- 009003_TagCloud
- 009004_NamedEntityRecco
- Copy2 of UGM_DEMO
- Itemsets
- KNIME_project
- R View Port and Report Ex
- UGM_DEMO
- Web services

File Reader


Statistics

R View ...




```

graph LR
    FR[File Reader] --> S[Statistics]
    FR --> RV[R View ...]
  
```



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File Edit View Node Search Run Help



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*2: UGM_DEMO

002001_DecisionTree
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 009004_NamedEntityReco
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 UGM_DEMO
 Web services


File Reader



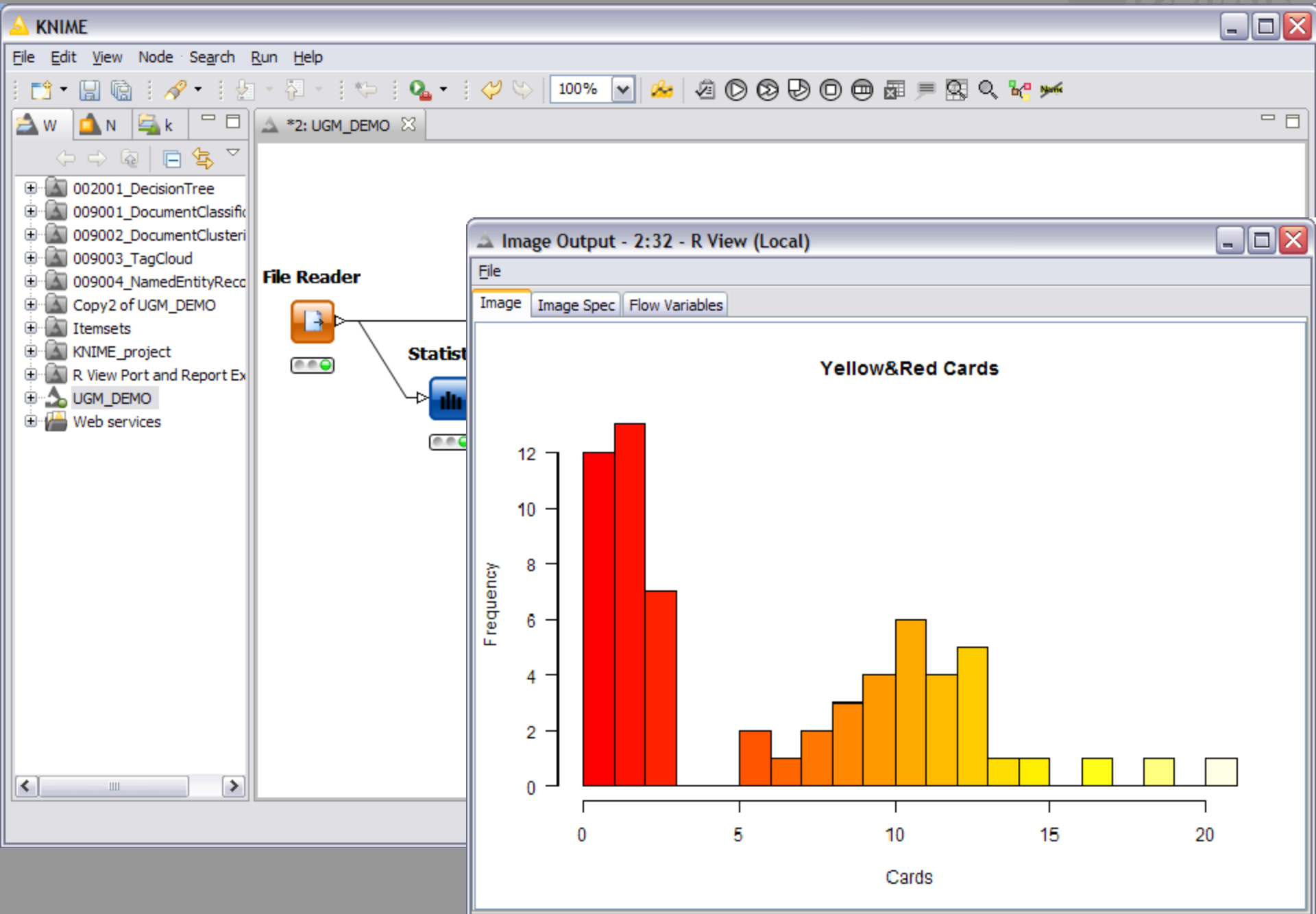
Statistics



R View ...




Configure...
 Execute
 Execute and Open Views
 Cancel
 Reset
 Edit Node Name and Description...
 New Workflow Annotation
 View: R View
 View: R Error Output
 Show Flow Variable Ports
 Cut
 Copy
 Paste
 Undo Delete
 Redo
 Delete
 0 Image Output




New in v2.3

View Objects

- use R (or any other package) to create views and expose them as View Object
- and they can be embedded into Reports!


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File Edit View Node Search Run Help




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*2: UGM_DEMO

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 009003_TagCloud
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 Itemsets
 KNIME_project
 R View Port and Report Ex
 UGM_DEMO
 Web services


File Reader




Statistics




R View ...




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File Edit View Node Search Run Help




W N k


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 009002_DocumentClusteri
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 R View Port and Report Ex
 UGM_DEMO
 Web services

File Reader



Statistics



R View ...






Image to Report




Send image to report

```

graph LR
    A[File Reader] --> B[Statistics]
    A --> C[R View ...]
    C --> D[Image to Report]
  
```



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File Edit View Node Search Run Help




W N k


*2: UGM_DEMO

002001_DecisionTree
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 009003_TagCloud
 009004_NamedEntityReco
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 Itemsets
 KNIME_project
 R View Port and Report Ex
 UGM_DEMO
 Web services

File Reader



Statistics



R View ...






Image to Report




Send image to report

```

graph LR
    FR[File Reader] --> S[Statistics]
    FR --> RV[R View ...]
    RV --> IR[Image to Report]
  
```



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File Edit View Node Search Run Help




W N k

*2: UGM_DEMO


Opens the report associated with this workflow for editing

- 002001_DecisionTree
- 009001_DocumentClassific
- 009002_DocumentClusteri
- 009003_TagCloud
- 009004_NamedEntityReco
- Copy2 of UGM_DEMO
- Itemsets
- KNIME_project
- R View Port and Report Ex
- UGM_DEMO
- Web services

File Reader



Statistics



R View ...








Image to Report

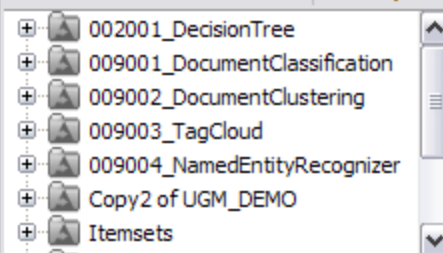


Send image to report



 **KNIME**

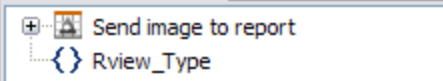
File Edit Insert Element Data Page View Search Run Help



 Workflow Projects 





- 002001_DecisionTree
- 009001_DocumentClassification
- 009002_DocumentClustering
- 009003_TagCloud
- 009004_NamedEntityRecognizer
- Copy2 of UGM_DEMO
- Itemsets

 Data set view 





-  Send image to report
-  Rview_Type

 Palette

 Report Items

- Data
- Image

 Quick Tools

 Property Editor - Report



Properties

General

Description

General

Author:

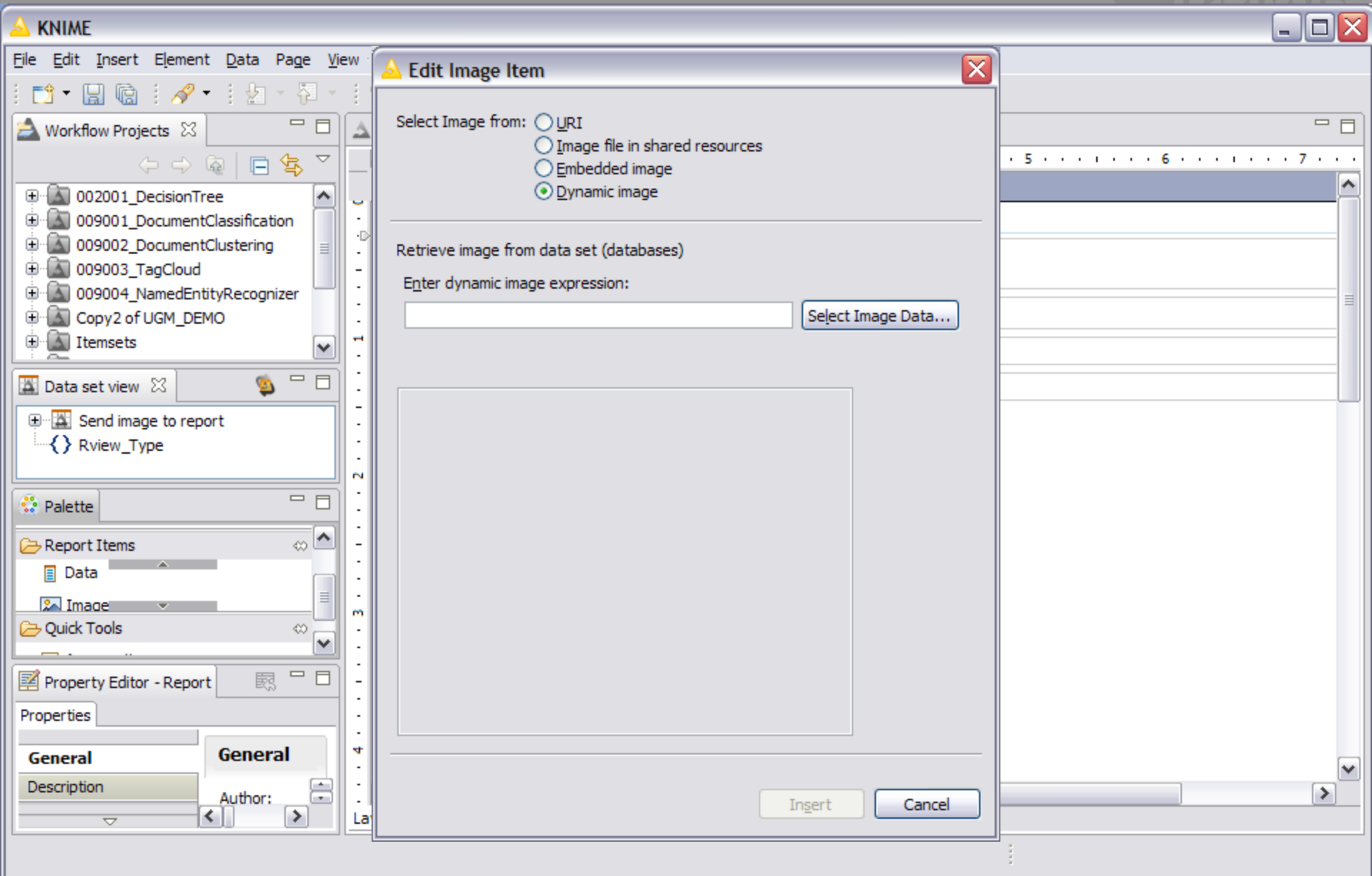
2: UGM_DEMO  *Report: UGM_DEMO 

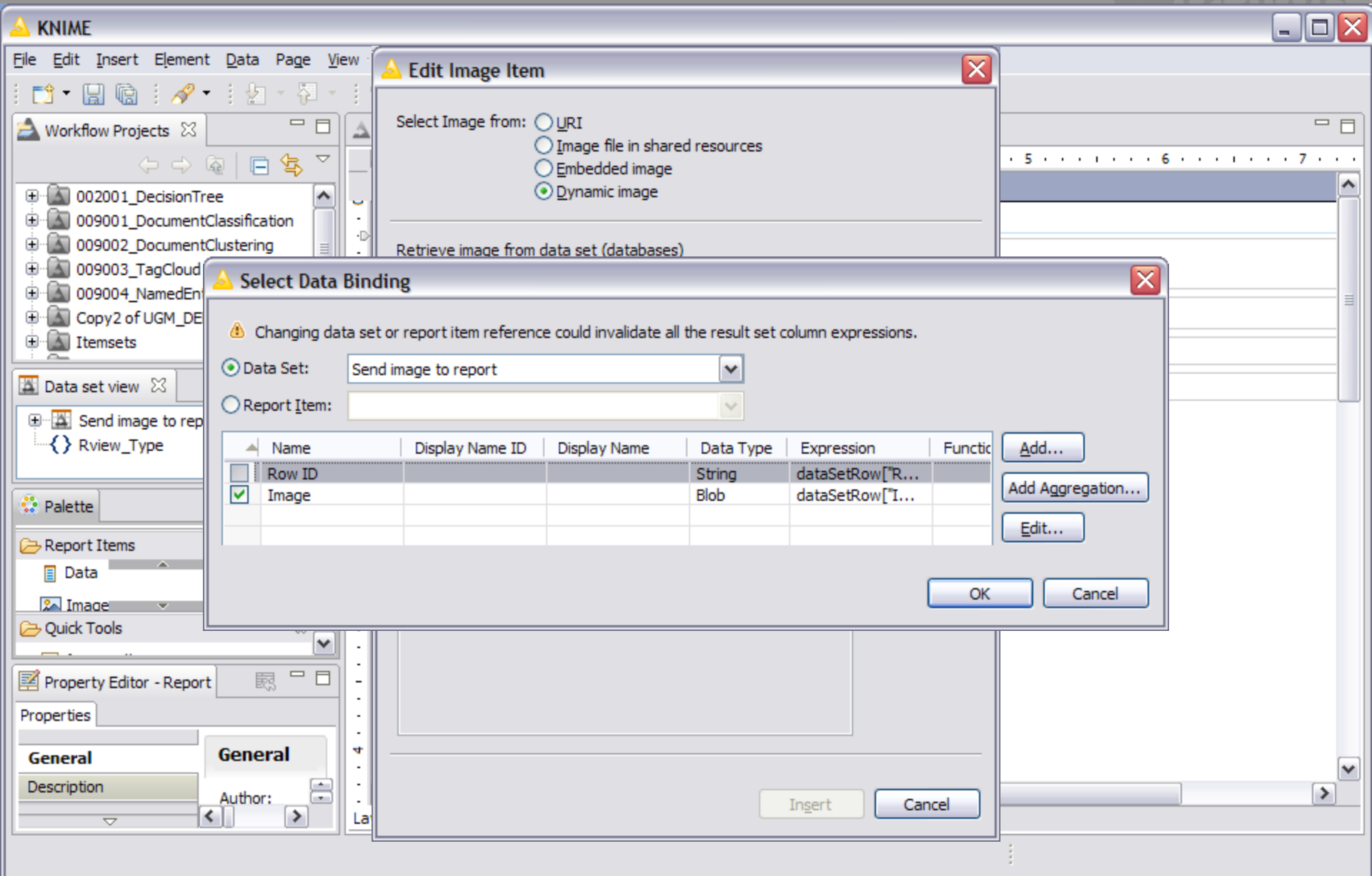
<H3>
Example Rep...


The second type ...

Label


Layout Master Page Script XML Source Preview






KNIME

File Edit Insert Element Data Page View Search Run Help


100%

Workflow Projects

- 002001_DecisionTree
- 009001_DocumentClassification
- 009002_DocumentClustering
- 009003_TagCloud
- 009004_NamedEntityRecognizer
- Copy2 of UGM_DEMO
- Itemsets

Data set view

- Send image to report
- Rview_Type

Palette

- Pointer Select
- Rectangle Select

Report Items

- Label

Property Editor - Report

Properties


General

Description

General
Author:

2: UGM_DEMO
Report: UGM_DEMO


<H3>
Example Rep...



The second type ...

Label

Layout Master Page Script XML Source Preview



File

Edit


Page

View

Search

Run

Help



Workflow Projects

002001_DecisionTree

009001_DocumentClassification

009002_DocumentClustering

009003_TagCloud

009004_NamedEntityRecognizer

Copy2 of UGM_DEMO

Itemsets

Data set view

Send image to report

Rview_Type

Palette

Property Editor - None

2: UGM_DEMO

Report: UGM_DEMO

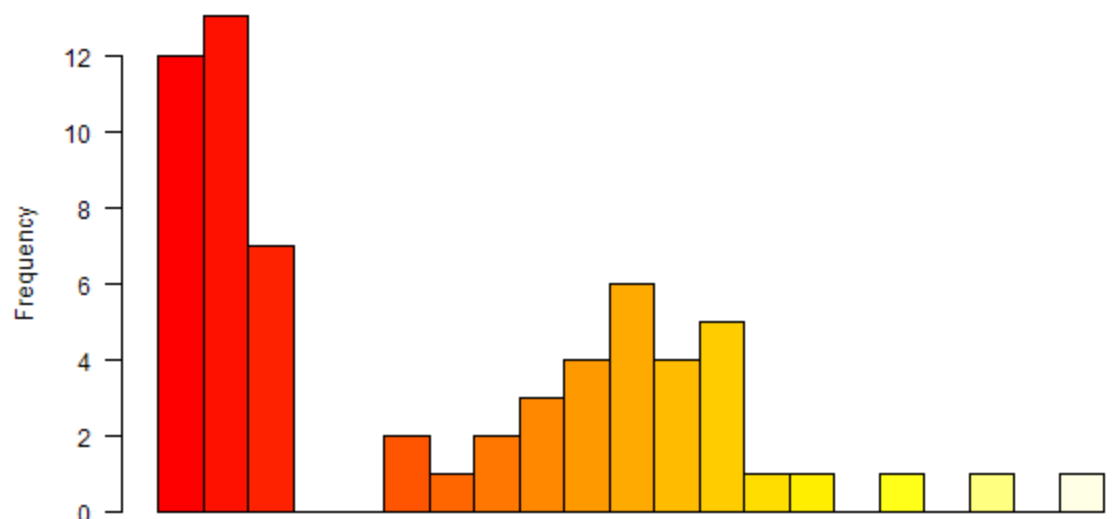
Refresh Report

Note: Current maximum number of data rows is limited to 500. [\(Click to change Preview Preferences\)](#)

Example Report integrating R views.

There are two different types of data sets in this report. The first one is a plain R visualization using the "Image to Report" node. It is used for single images:

Yellow&Red Cards



Count	Frequency
1	12
2	13
3	7
4	2
5	1
6	2
7	3
8	4
9	6
10	4
11	5
12	1
13	1
14	1
15	1

Layout


Master Page

Script


XML Source

Preview

Personalization Using (Workflow) Variables


KNIME

File Edit View Node Search Run Help




W N k


*2: UGM_DEMO

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 009004_NamedEntityReco
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 Itemsets
 KNIME_project
 R View Port and Report Ex
 UGM_DEMO
 Web services

File Reader



Statistics



R View ...






Image to Report




Send image to report

```

graph LR
    A[File Reader] --> B[Statistics]
    A --> C[R View ...]
    C --> D[Image to Report]
  
```



KNIME

File Edit View Node Search Run Help



W N k

*2: UGM_DEMO

002001_DecisionTree

009001_DocumentClassific

009002_DocumentClusteri

009003_TagCloud

009004_NamedEntityReco

Copy2 of UGM_DEMO

Itemsets

KNIME_project

R View Port and Report Ex

UGM_DEMO

Web services

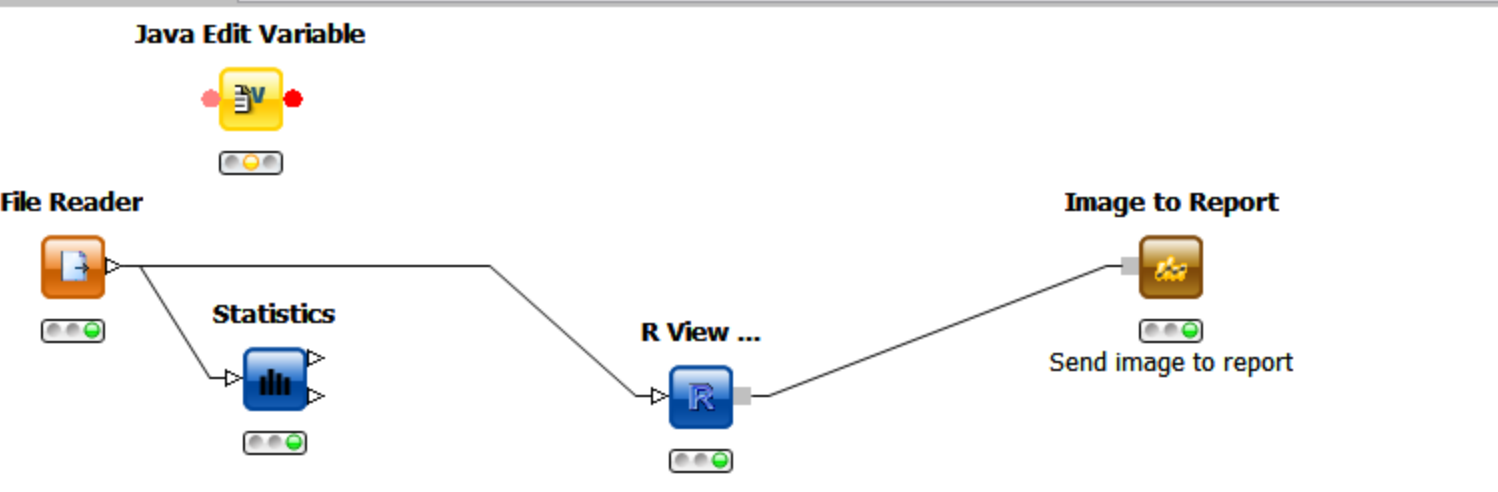
Java Edit Variable

File Reader

Statistics

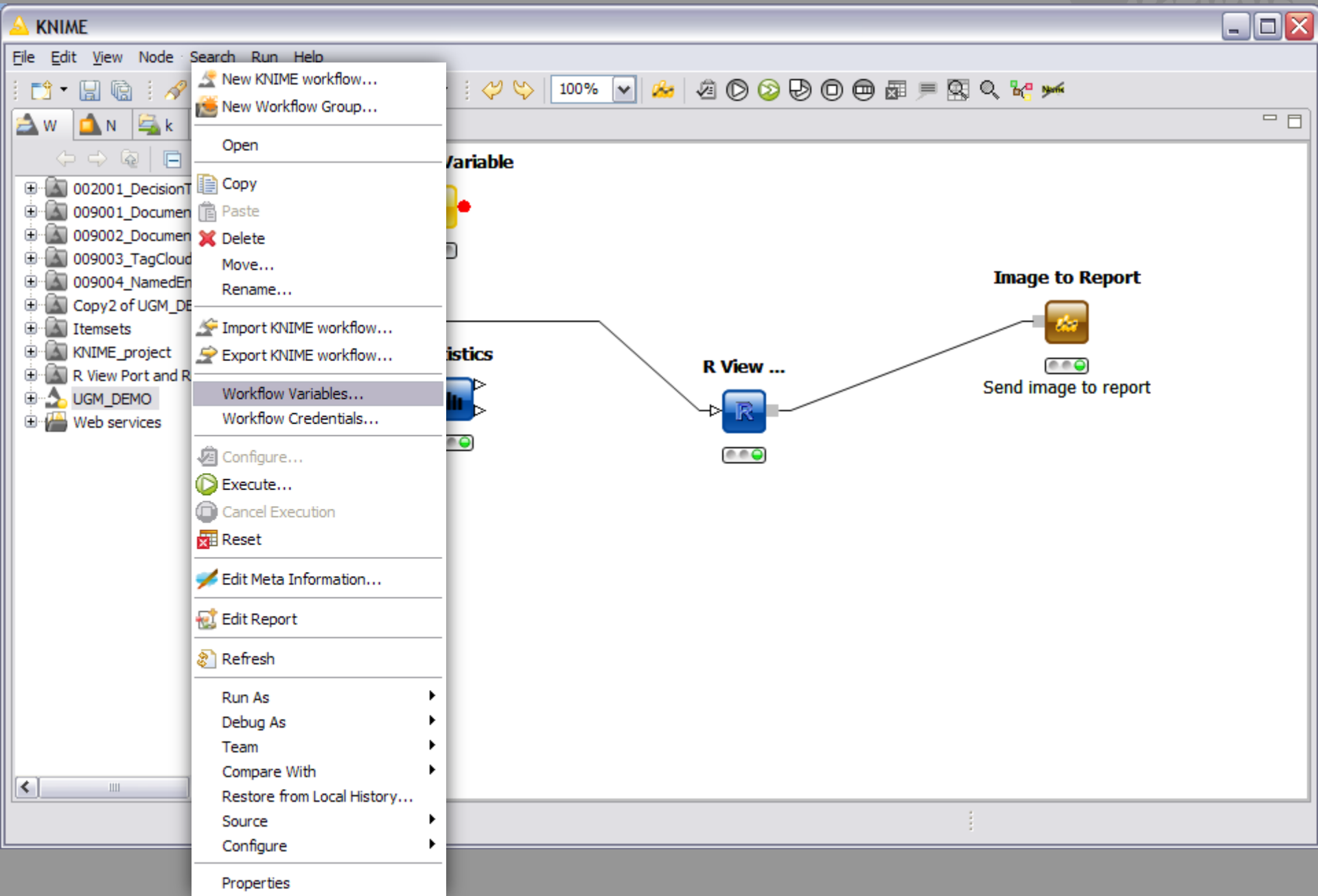
R View ...

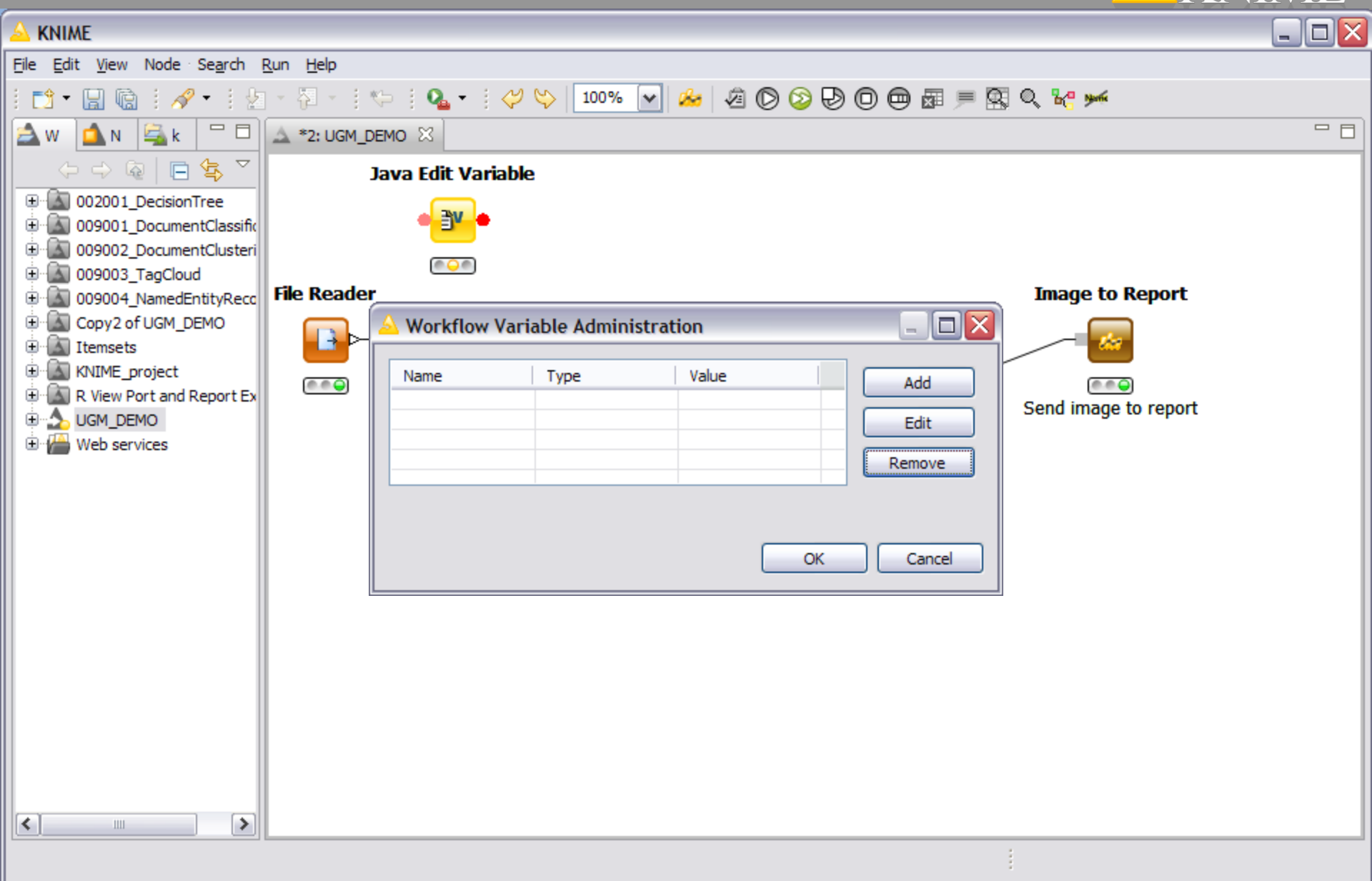
Image to Report

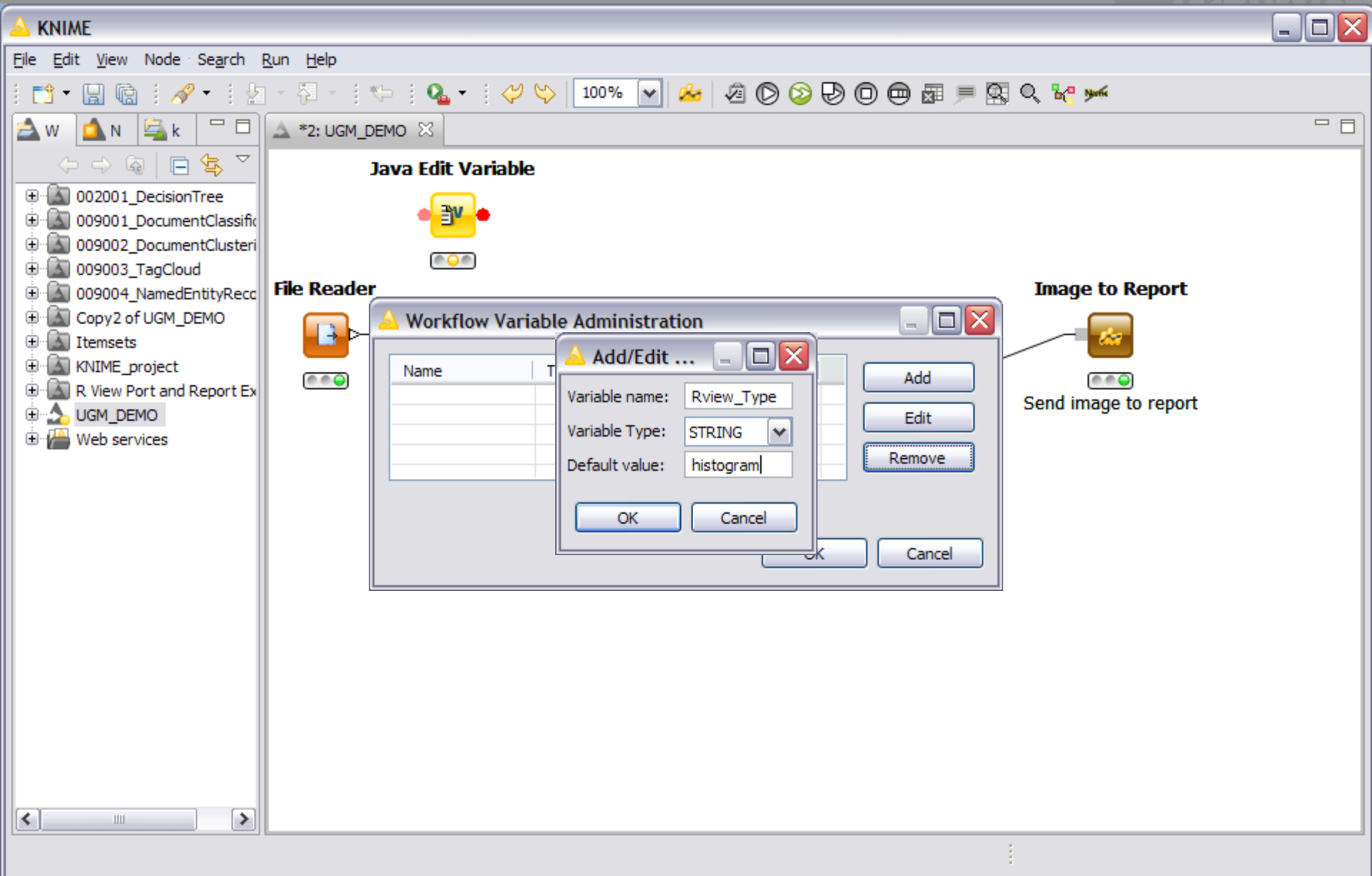



```

      graph LR
        FileReader[File Reader] --> Statistics[Statistics]
        FileReader --> RView[R View ...]
        RView --> ImageToReport[Image to Report]
      
```










KNIME

File Edit View Node Search Run Help




W N k


002001_DecisionTree
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009002_DocumentClusteri
009003_TagCloud
009004_NamedEntityReco
Copy2 of UGM_DEMO
Itemsets
KNIME_project
R View Port and Report Ex
UGM_DEMO
Web services

*2: UGM_DEMO

Java Edit Variable



File Reader




Workflow Variable Administration

Name	Type	Value
Rview_Type	STRING	histogram


Add
Edit
Remove

OK Cancel


Image to Report



Send image to report


KNIME

File Edit View Node Search Run Help




W N k


*2: UGM_DEMO

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 009001_DocumentClassific
 009002_DocumentClusteri
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 009004_NamedEntityReco
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 Itemsets
 KNIME_project
 R View Port and Report Ex
 UGM_DEMO
 Web services


Java Edit Variable



File Reader



Statistics



R View ...



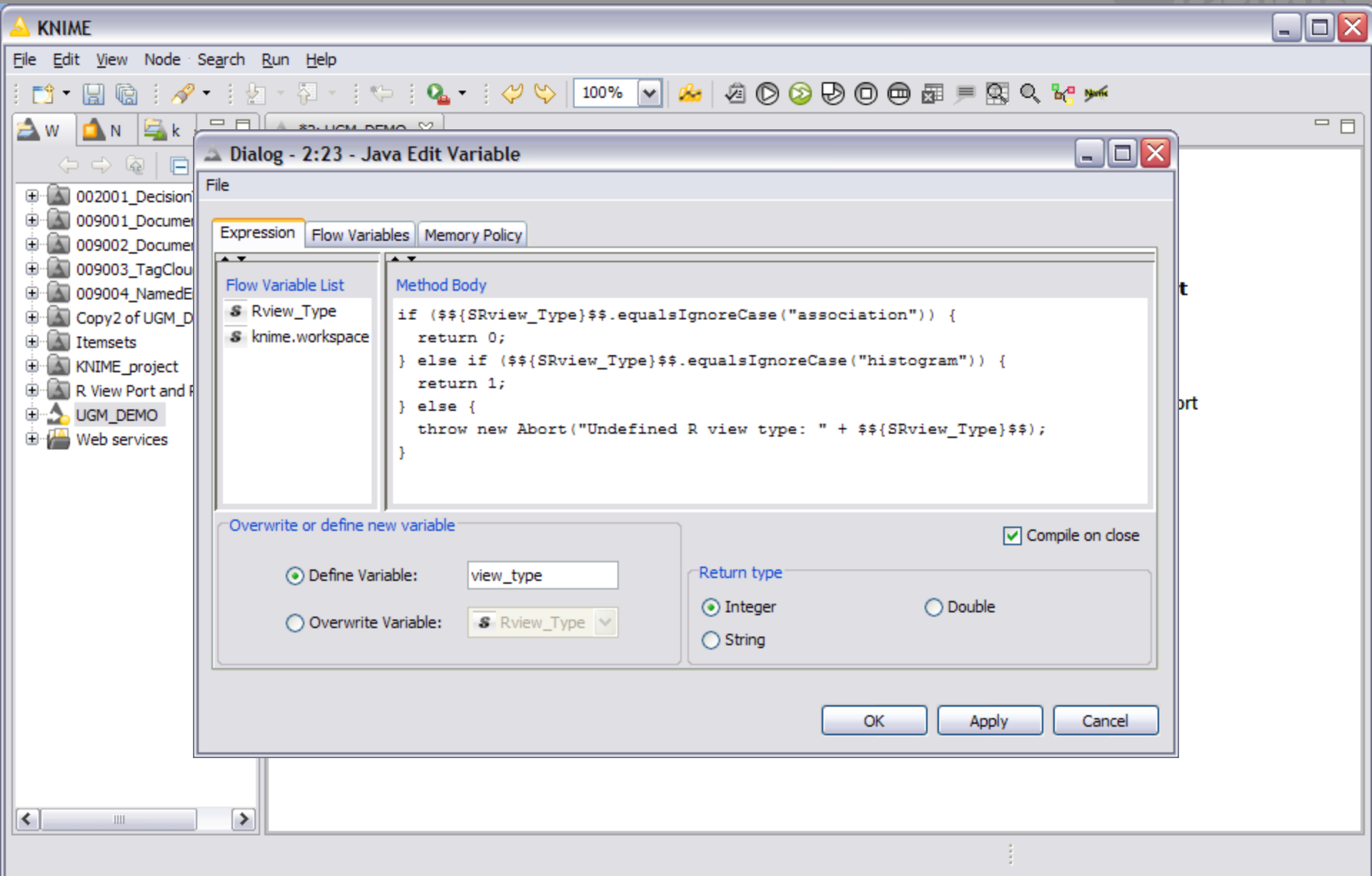



Image to Report




Send image to report




KNIME

File Edit View Node Search Run Help




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 Web services


Java Edit Variable



File Reader



Statistics



R View ...





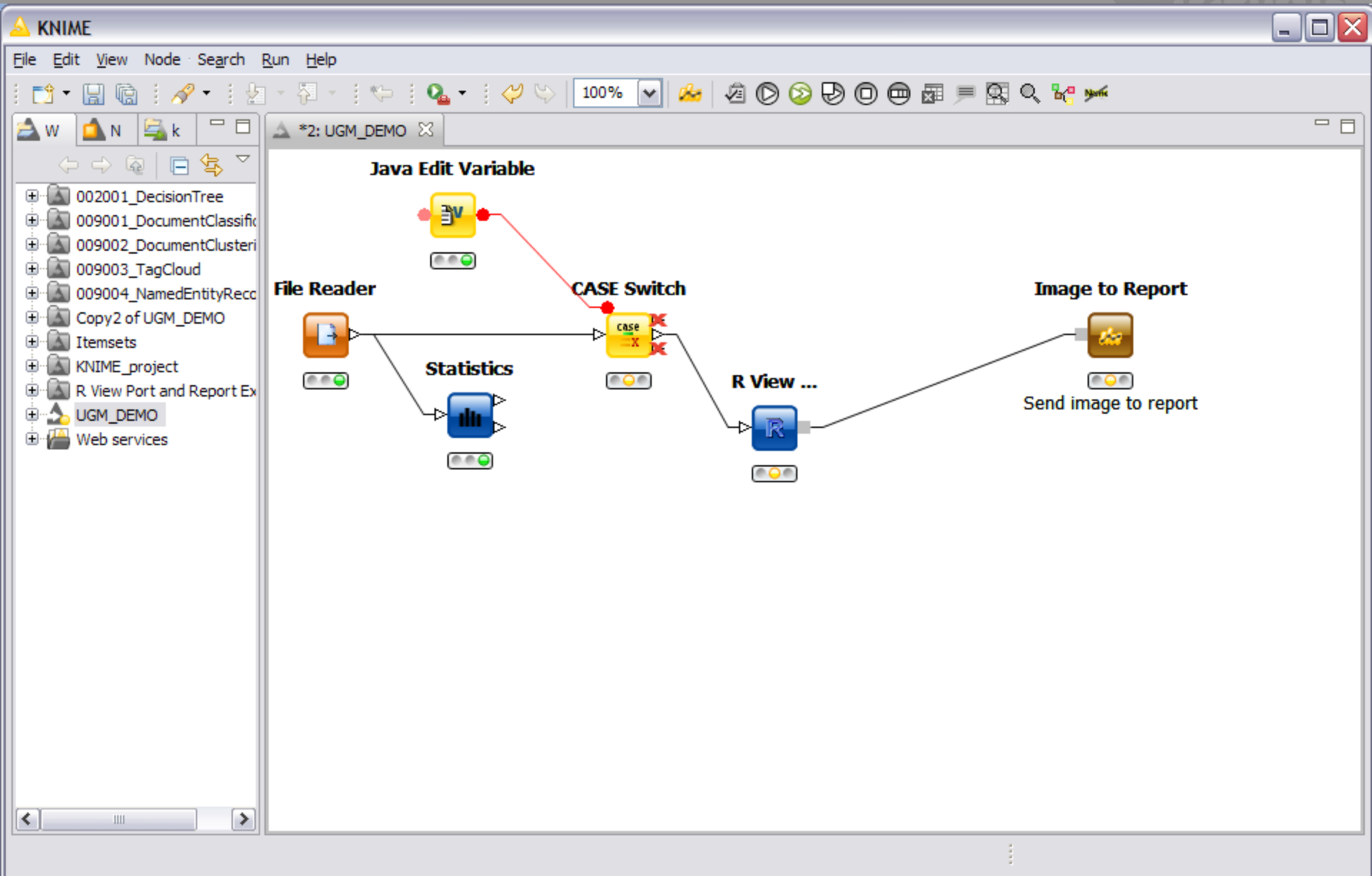
Image to Report

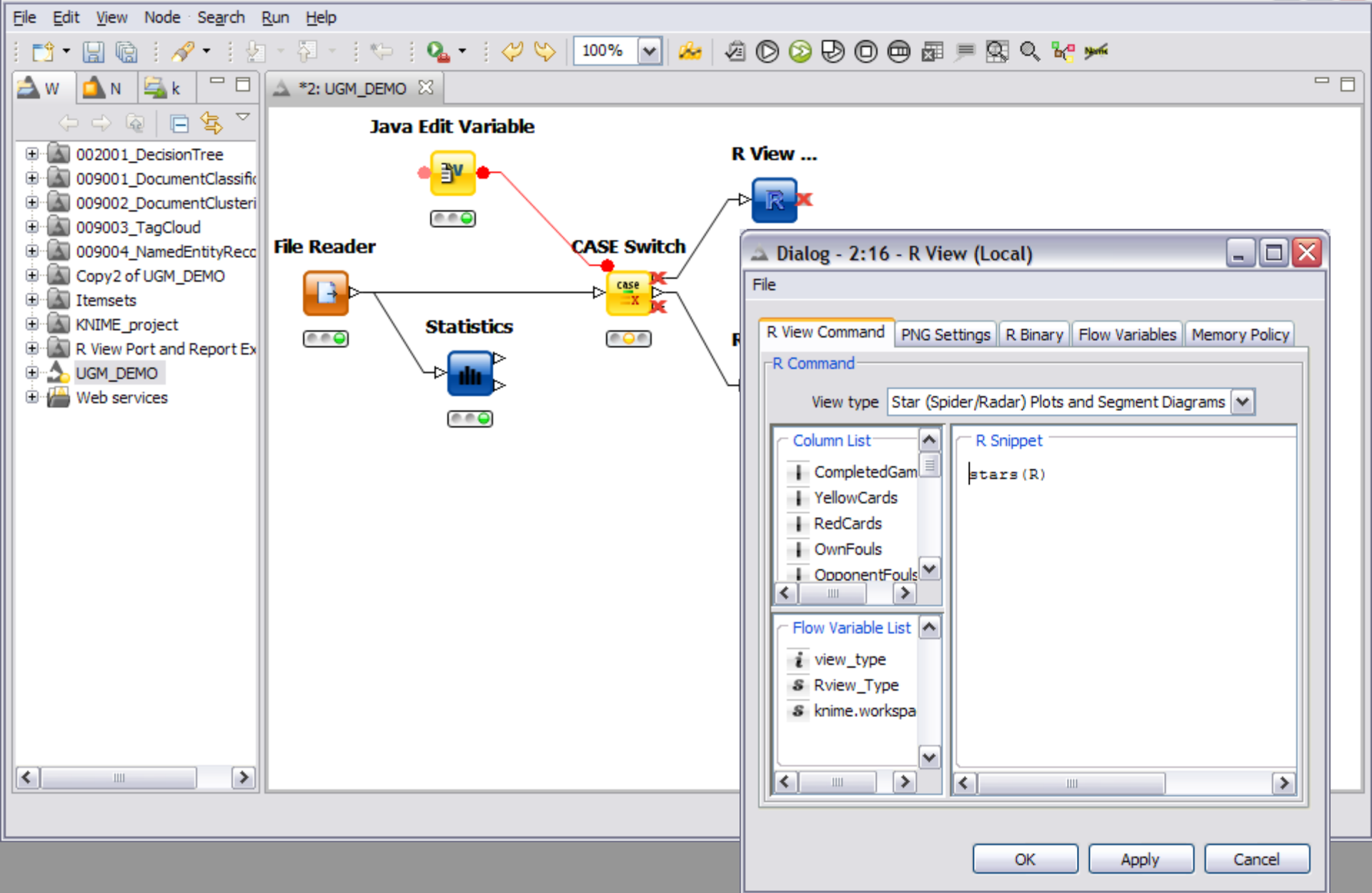


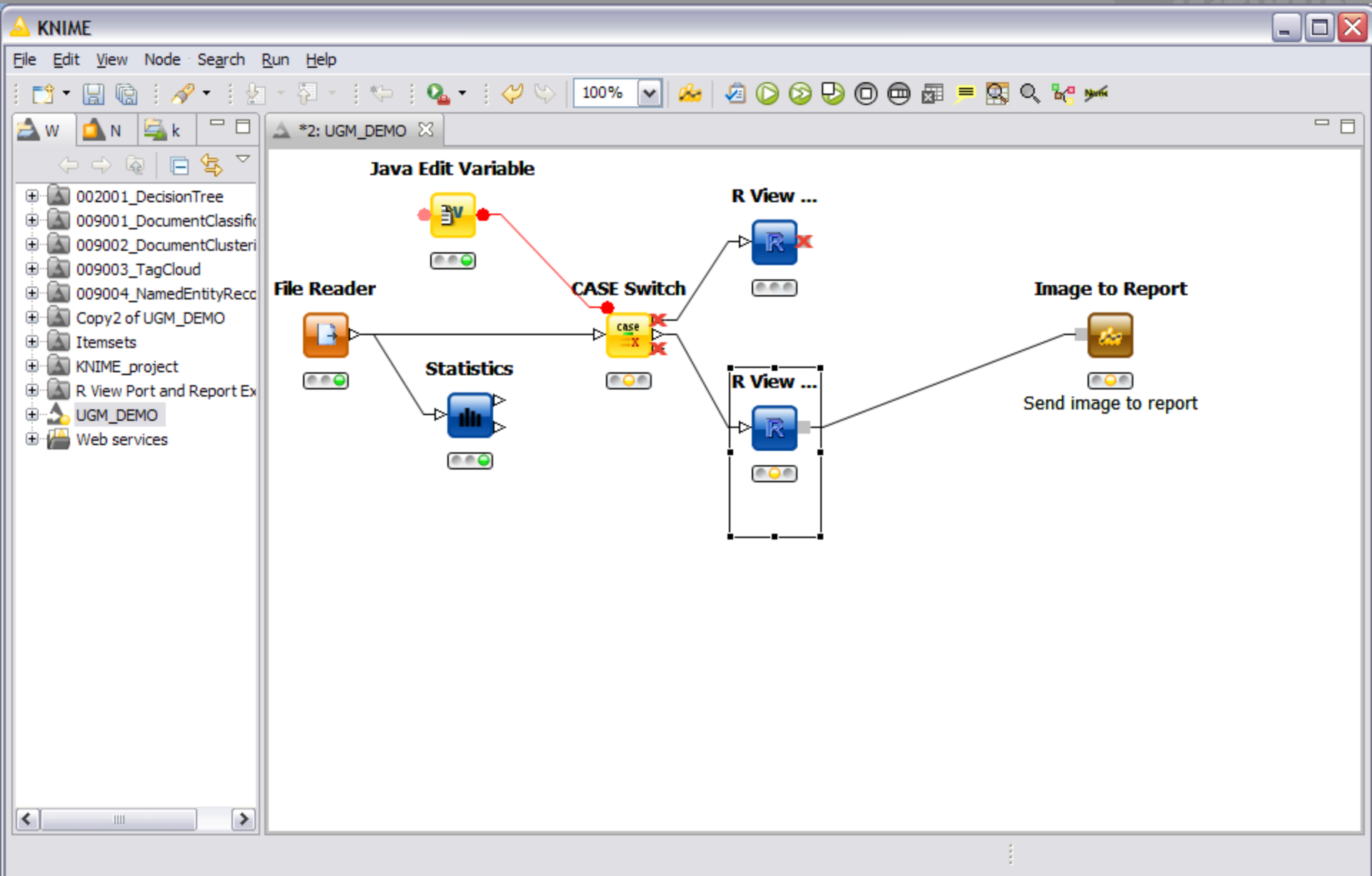
Send image to report

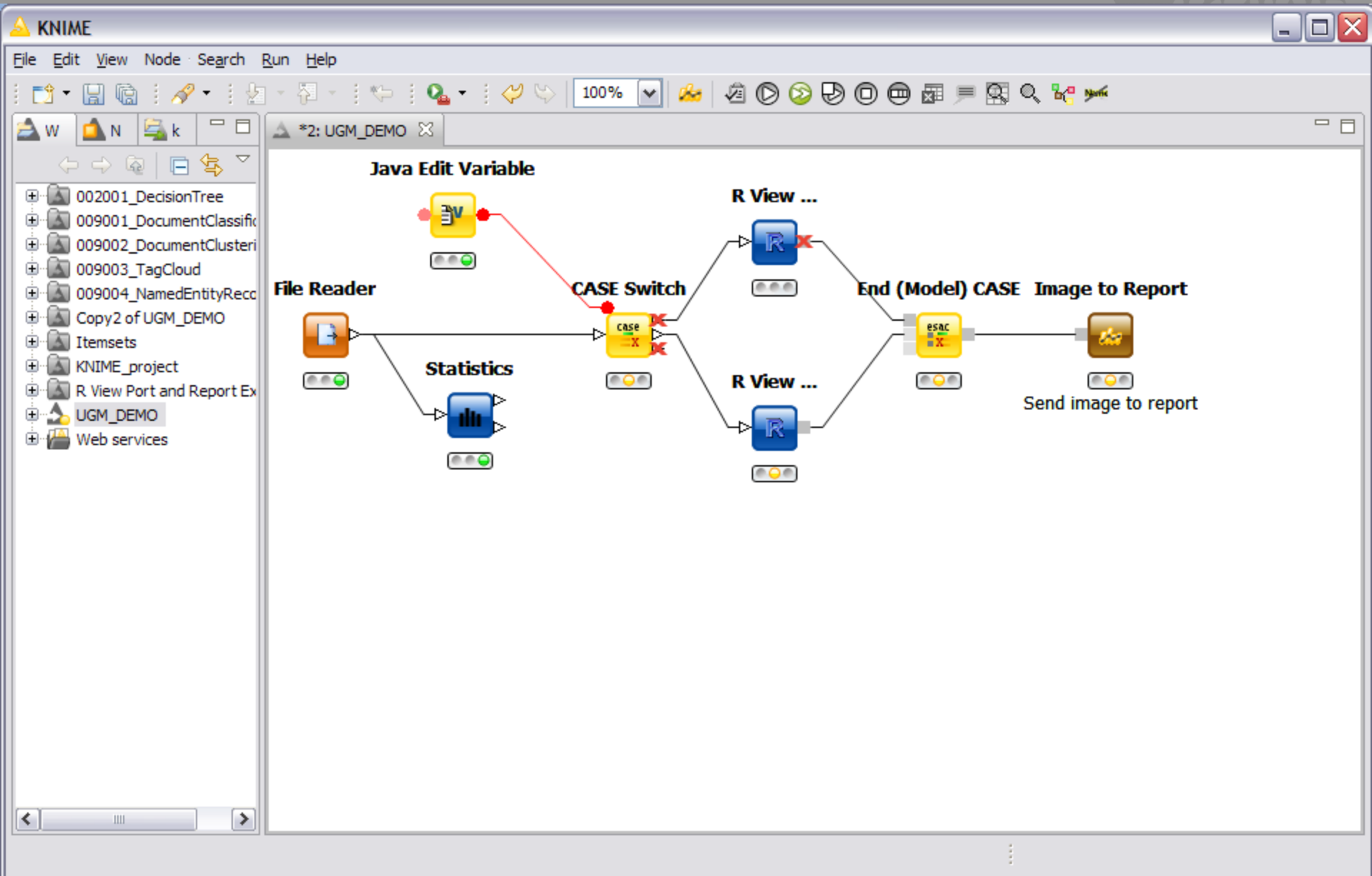
```

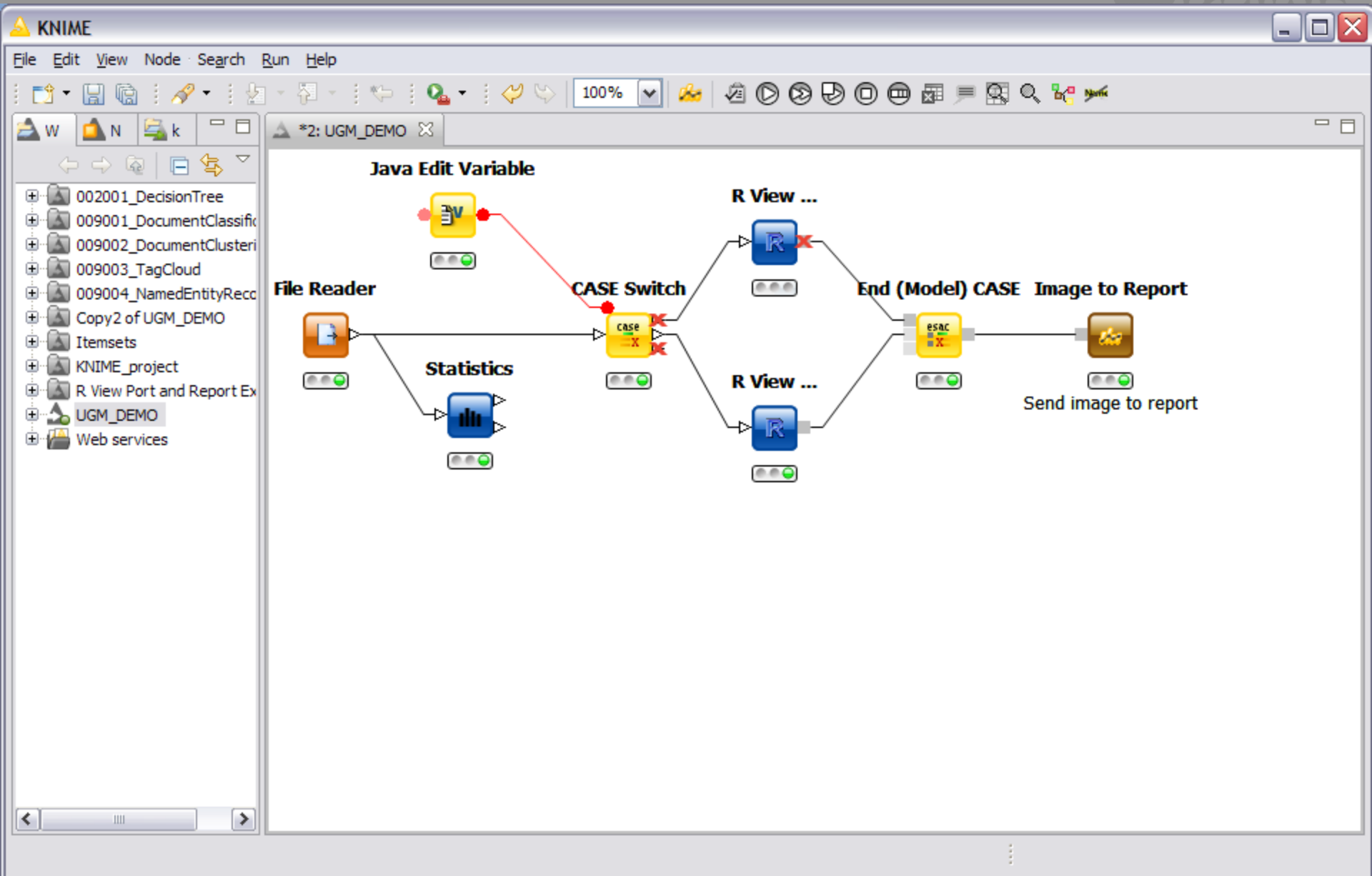
graph LR
    FileReader[File Reader] --> Statistics[Statistics]
    FileReader --> RView[R View ...]
    RView --> ImageToReport[Image to Report]
  
```

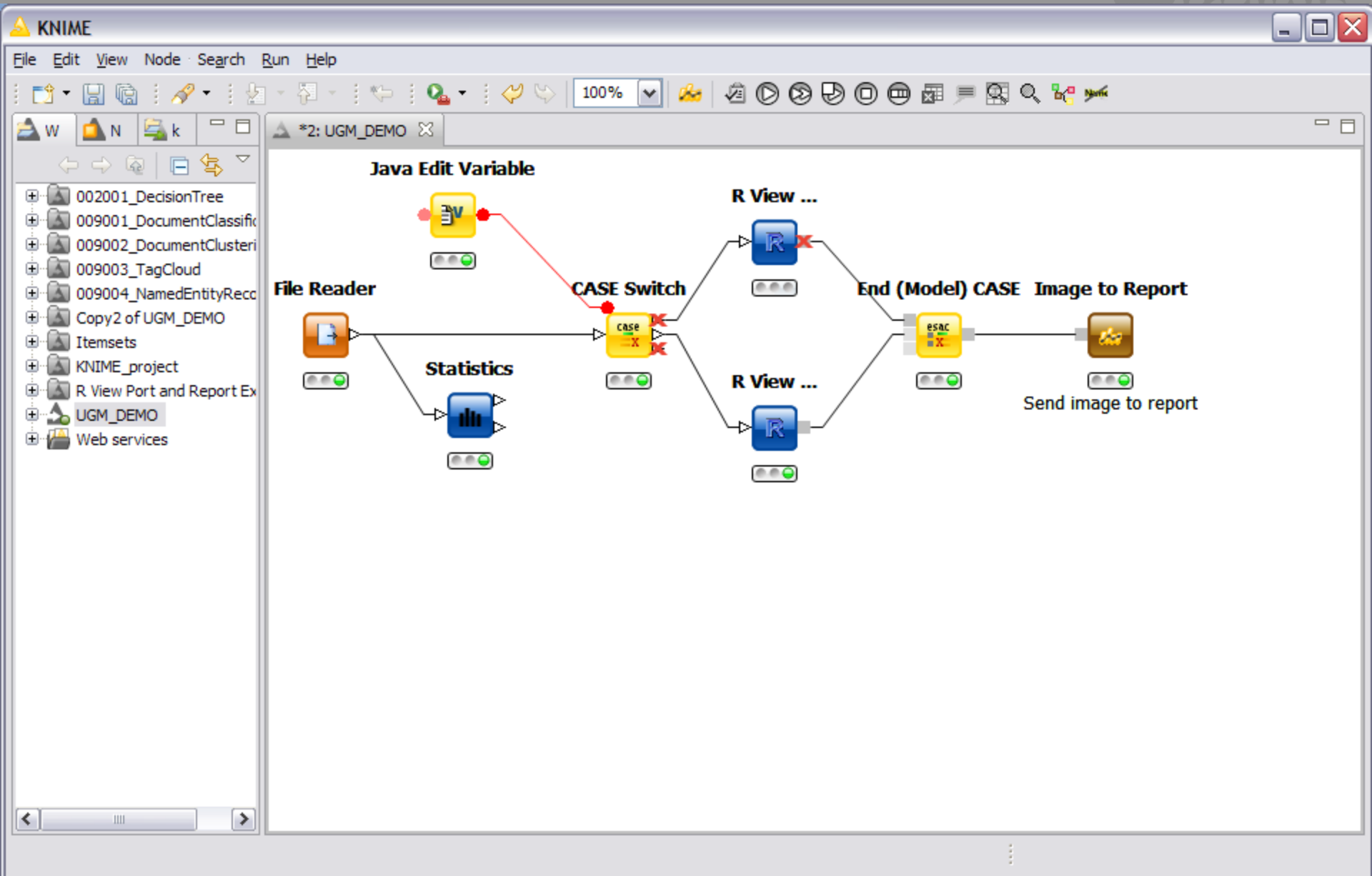



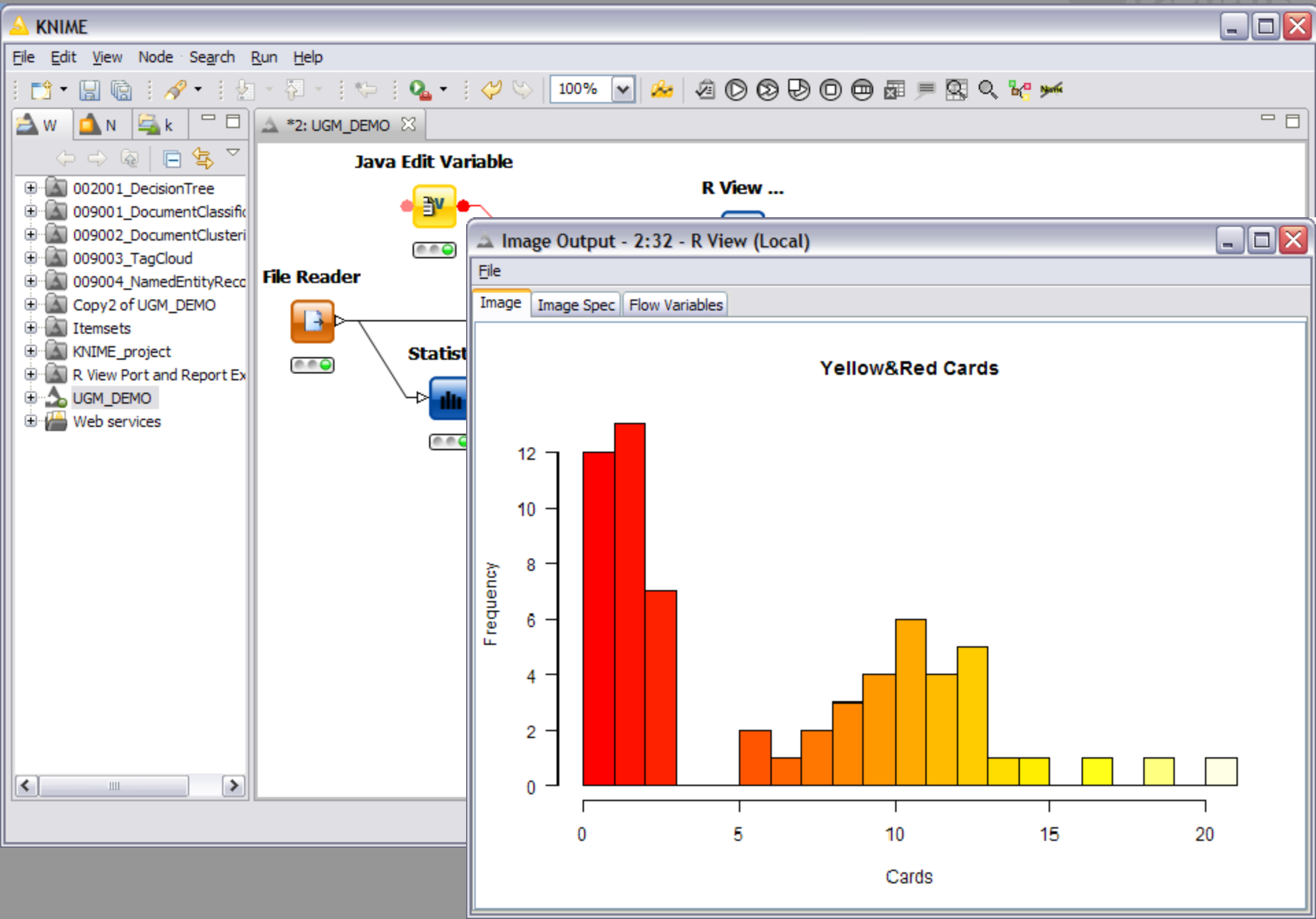


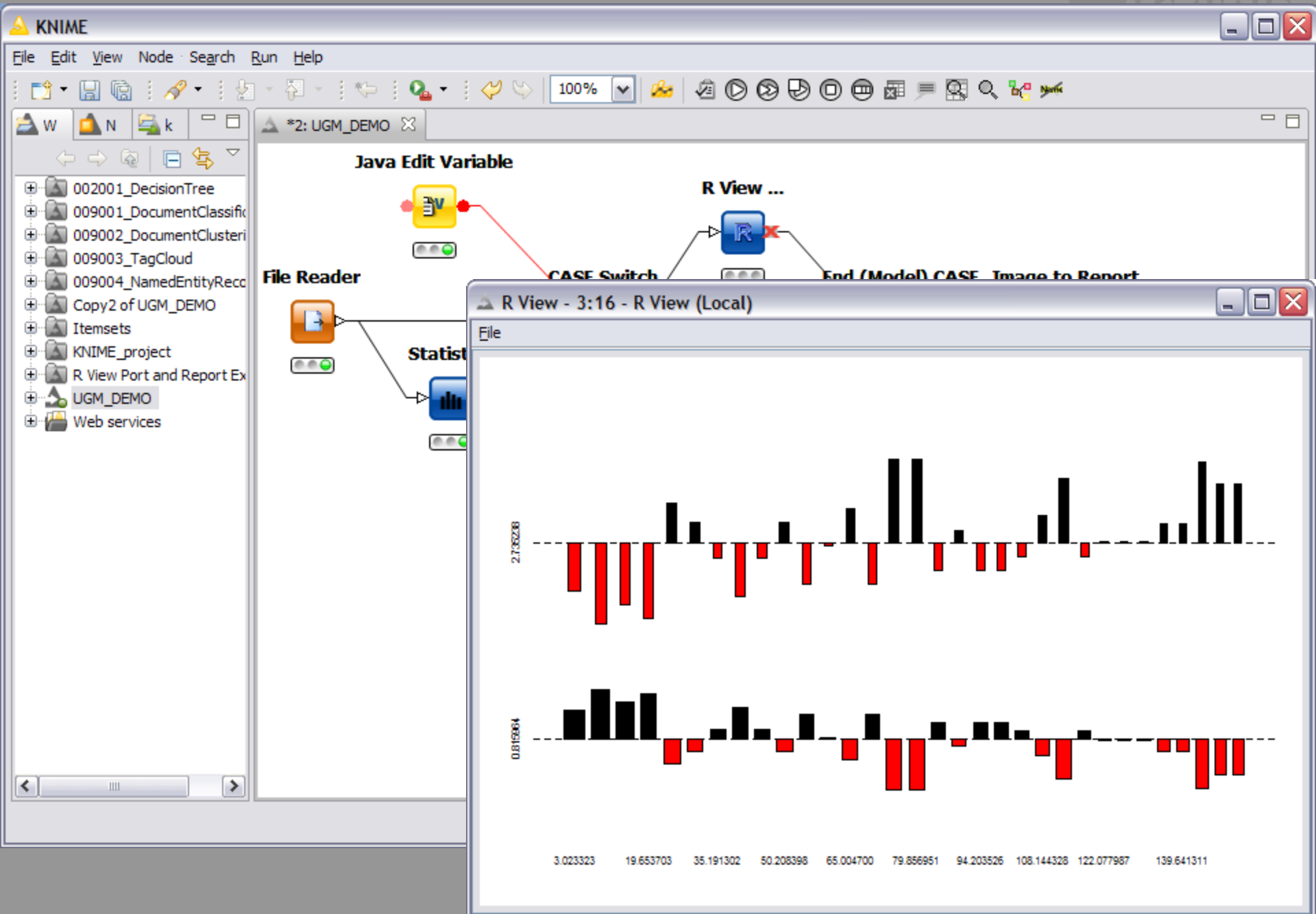








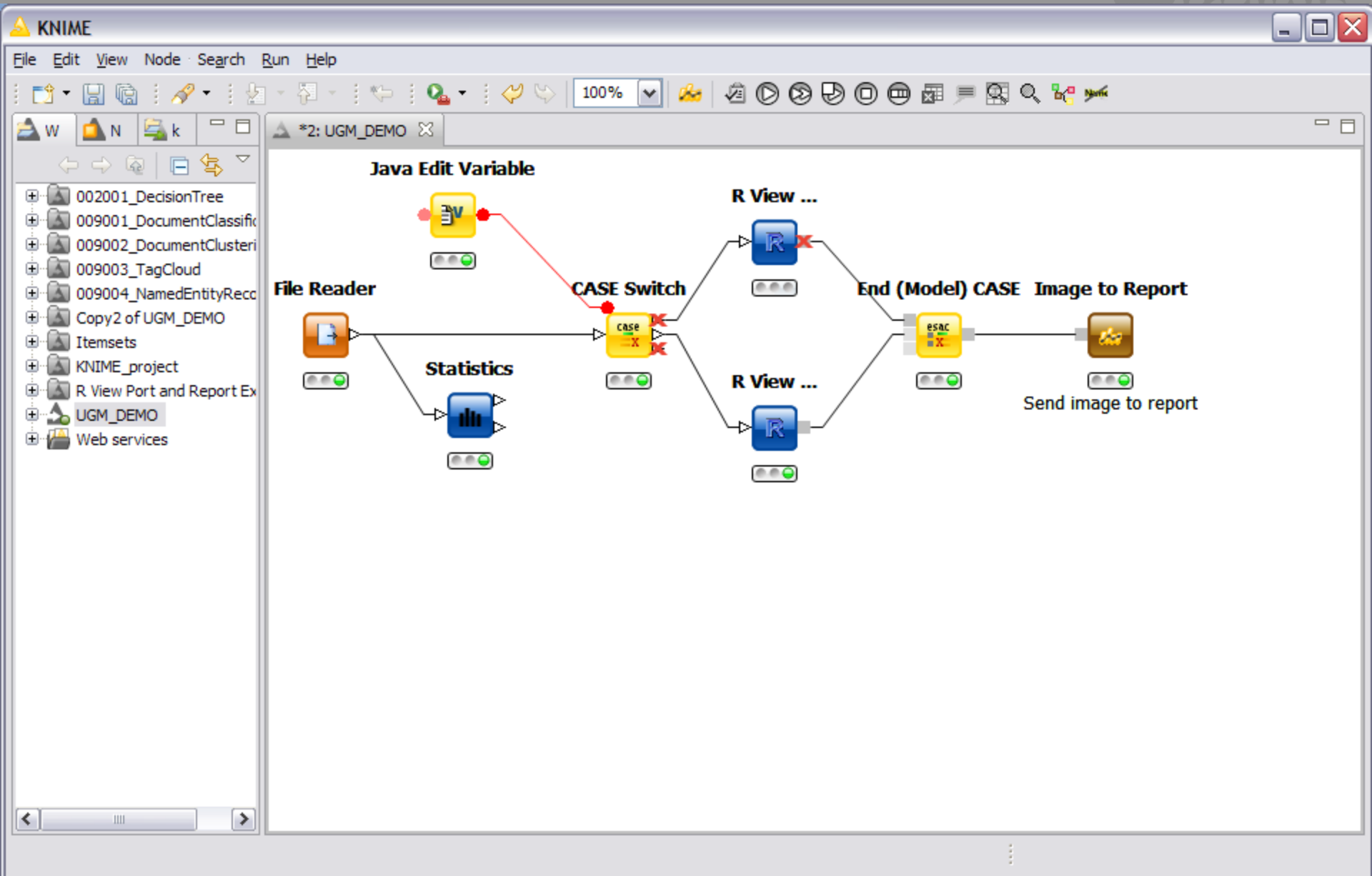


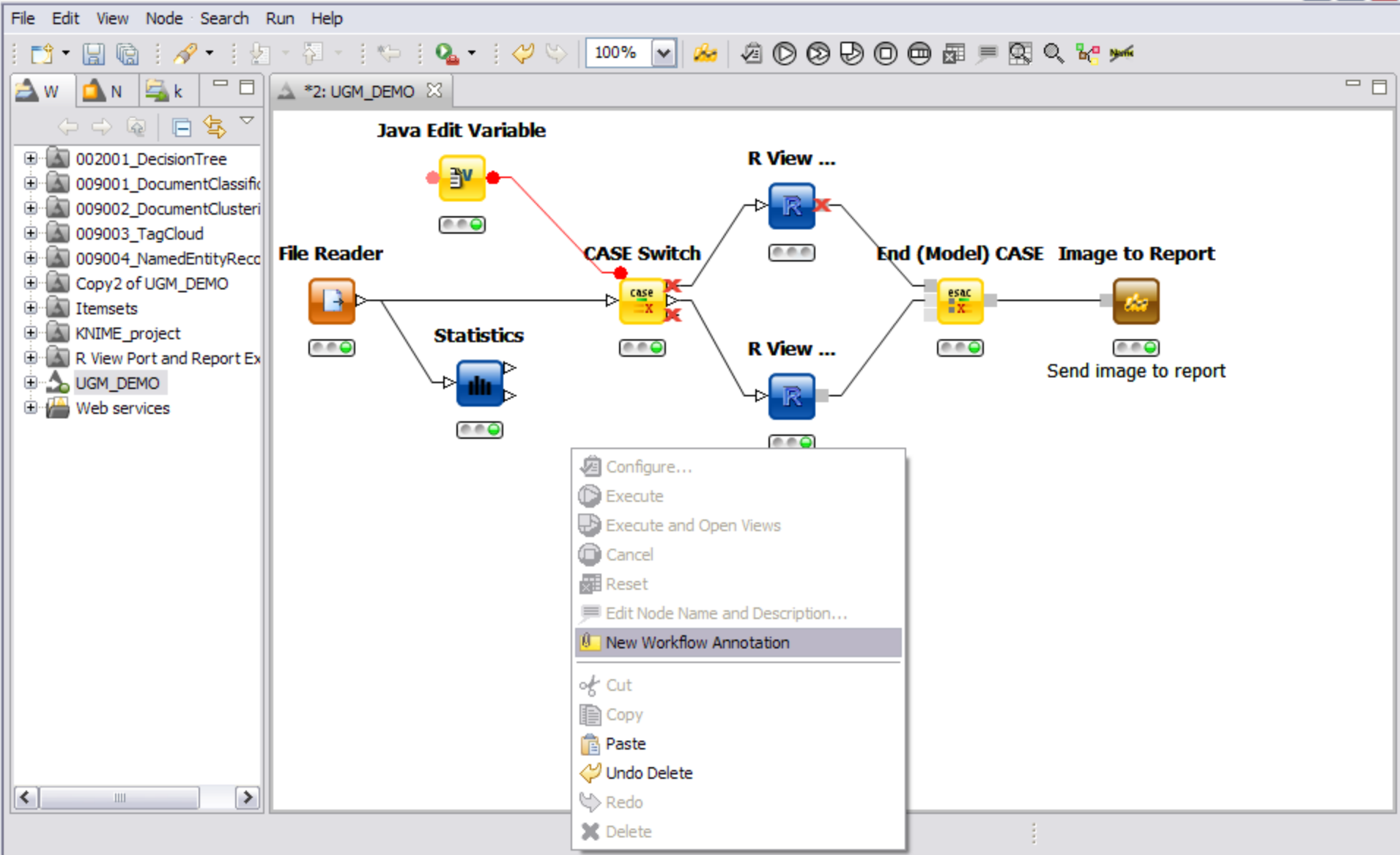


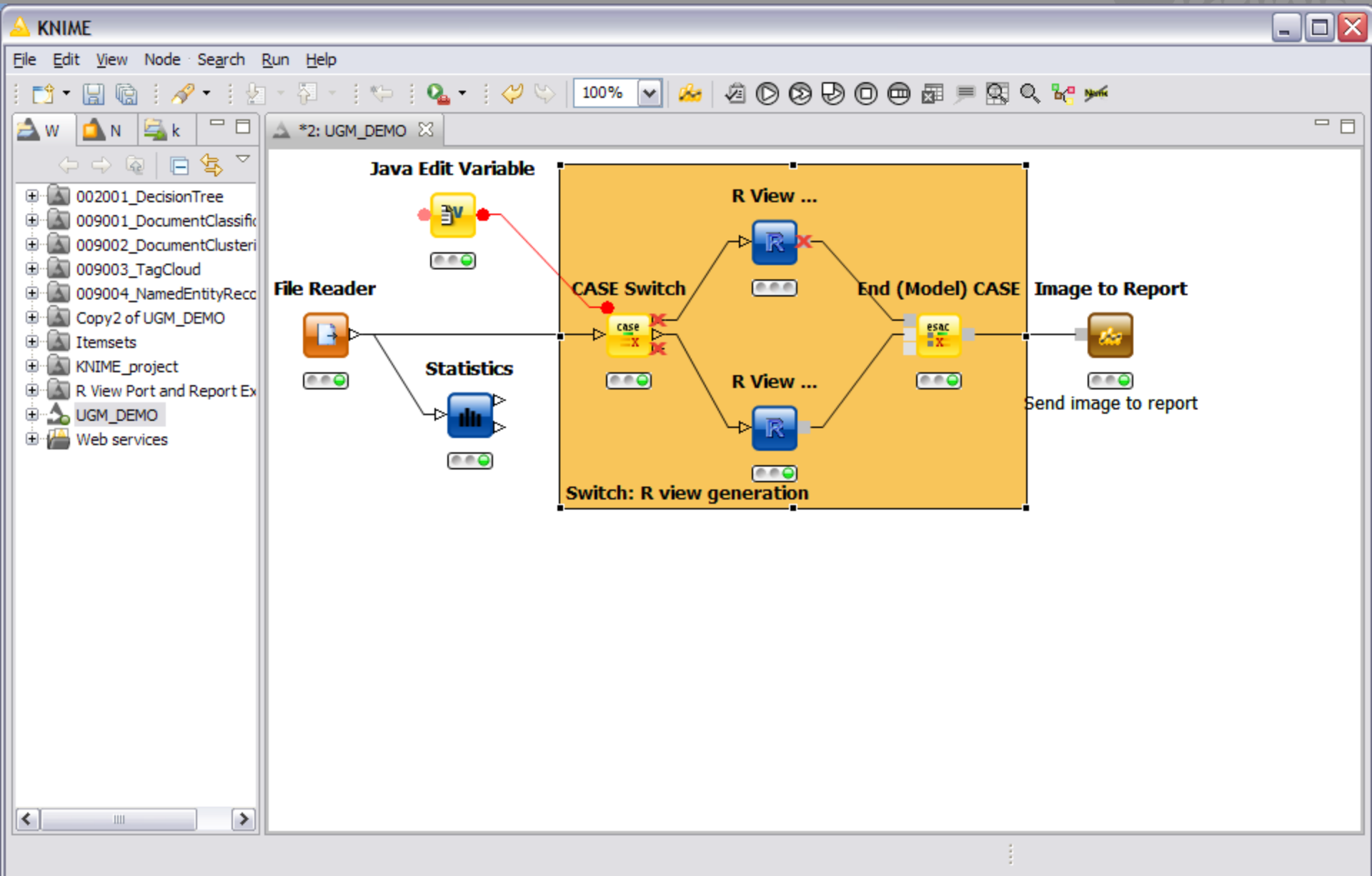
New in v2.3

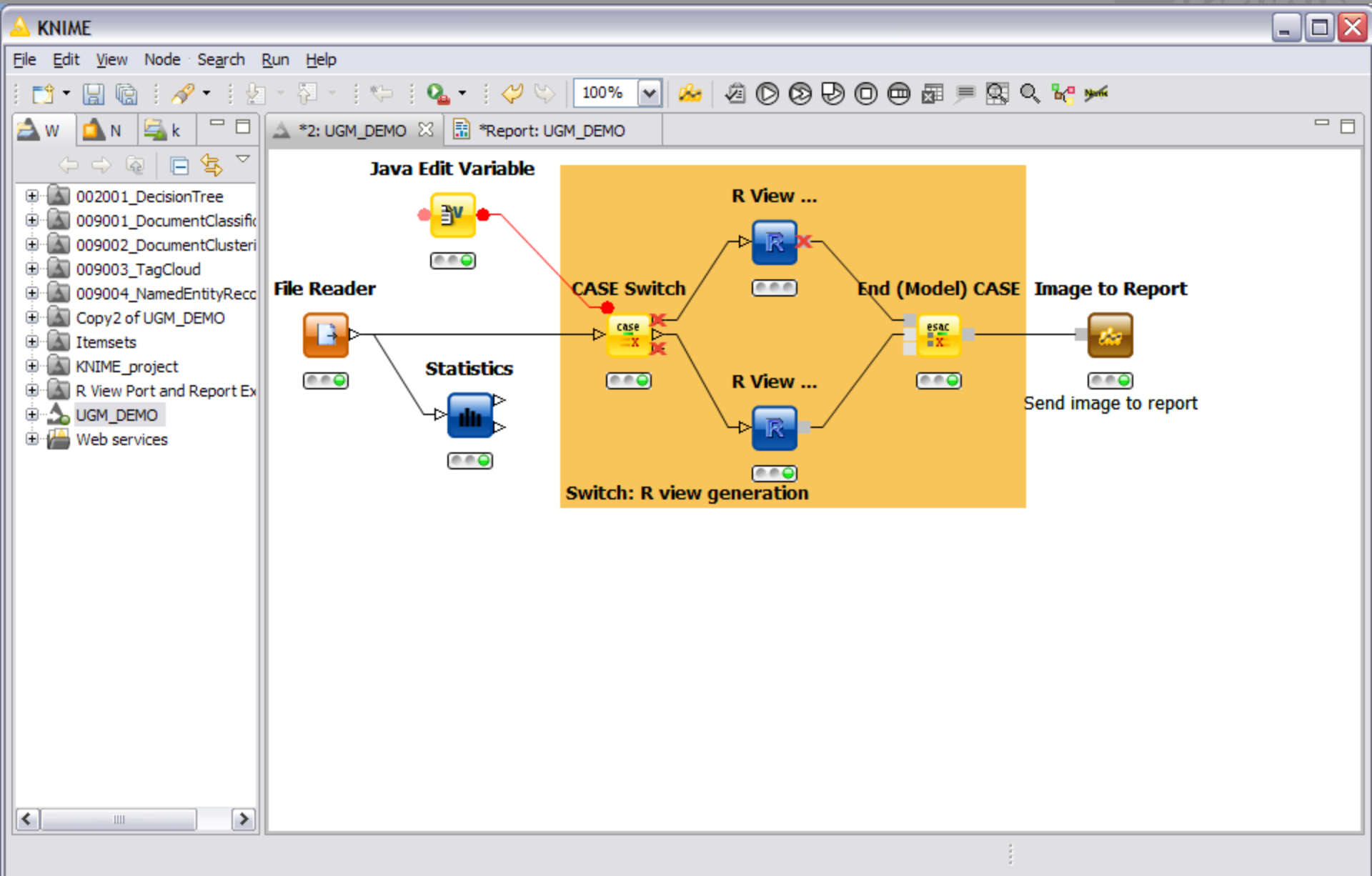
Workflow Switches

- Direct your data to one branch in the workflow
- Very useful in conjunction with workflow variables.











New in v2.3

Workflow Annotations

- document your workflow and highlight relevant parts.

 **KNIME**

File Edit View Node Search Run Help




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- 002001_DecisionTree
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- 009003_TagCloud
- 009004_NamedEntityReco
- Copy2 of UGM_DEMO
- Itemsets
- KNIME_project
- R View Port and Report Ex
- UGM_DEMO
- Web services

*2: UGM_DEMO X

*Report: UGM_DEMO

 **Add Meta Node Wizard**

Define the number and type of the desired in and out ports.

Meta Node Name:

In Ports:

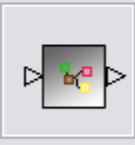
Add

Remove

Out Ports:

Add

Remove



< Back

Customize >

Finish

Cancel

Page to Report


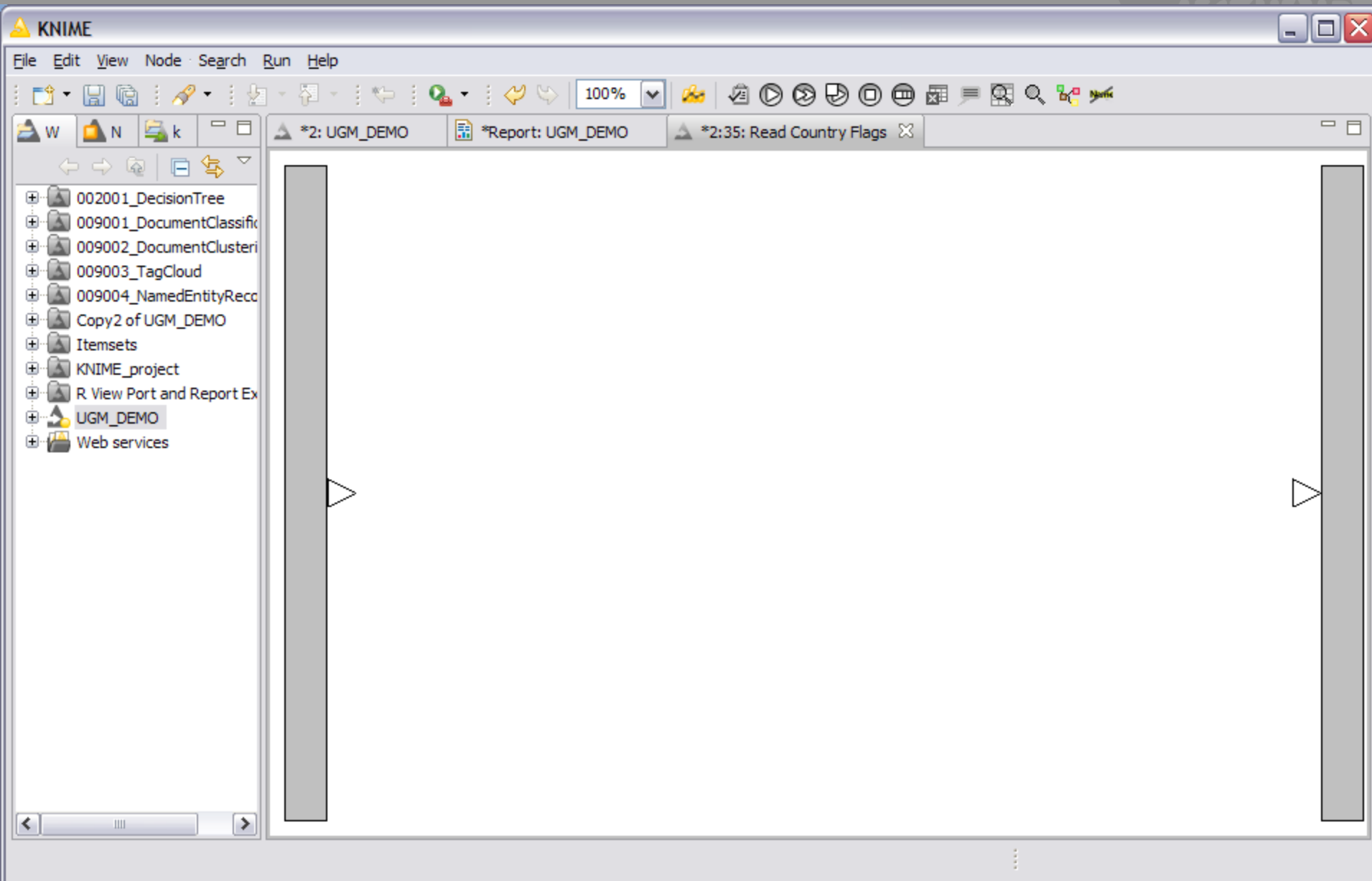
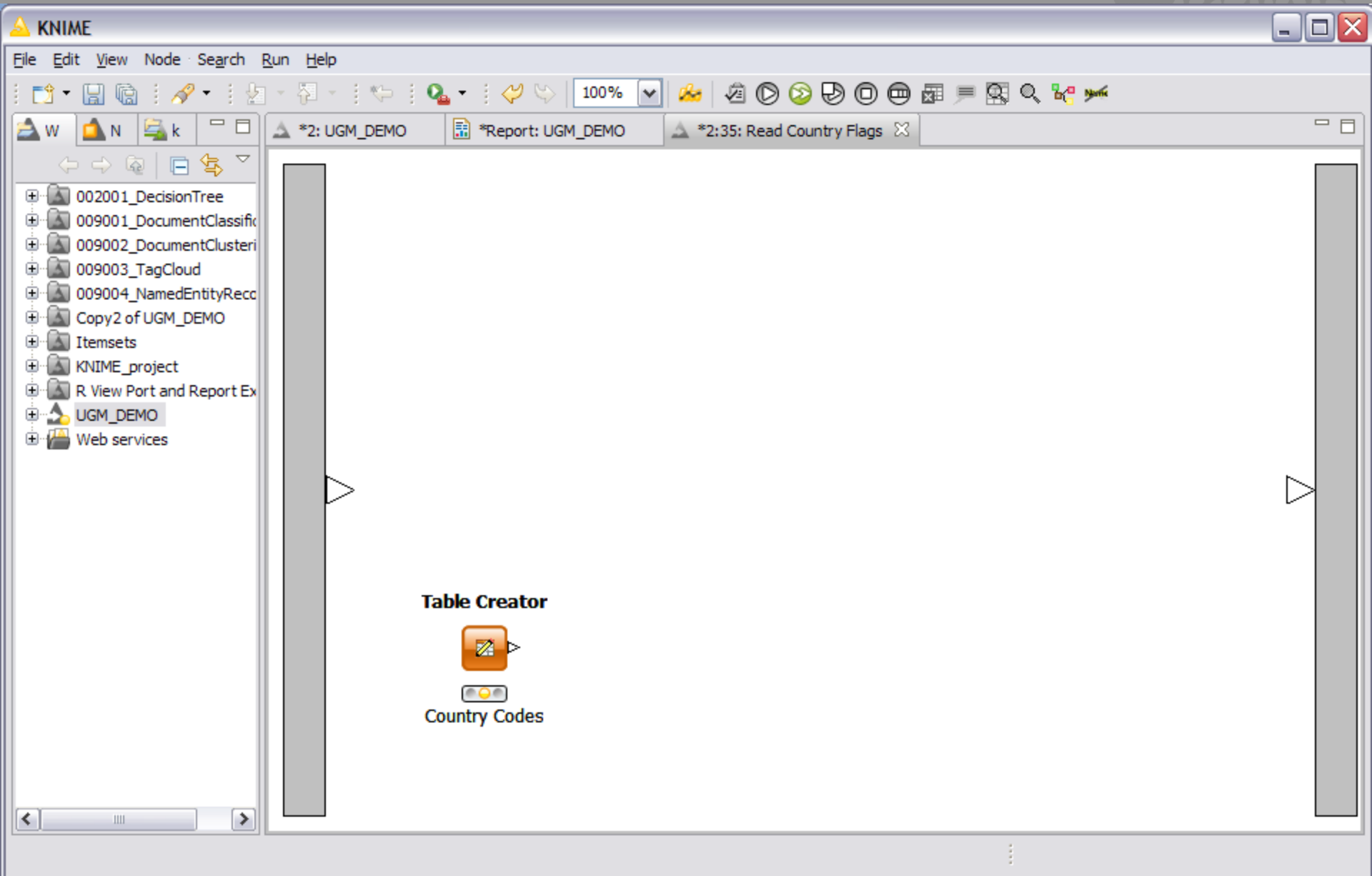


image to report





KNIME

File Edit View

W N

- 002001_Doc
- 009001_Doc
- 009002_Doc
- 009003_Tag
- 009004_Nar
- Copy2 of UG
- Itemsets
- KNIME_proj
- R View Port
- UGM_DEMO
- Web service

Dialog - 2:35:30 - Generic Webservice Client

File

Webservice Description Advanced Flow Variables Memory Policy

WSDL Location:

Services:

Ports:

Operations:

Input

Parameter	Type	Constant?	Constant value	Mapped column
• sCountryISOCODE	String	<input type="checkbox"/>		• CountryCode

Output


Parameter	Type	Include	Output Column	All in ...
• sCurrencyISOCODE	String	<input type="checkbox"/>		
• sCountryFlag	String	<input checked="" type="checkbox"/>	• sCountryFlag	
• languages	ArrayOfLanguage			

Select All Select None

OK Apply Cancel

KNIME

File Edit View Node Search Run Help



W N k

*2: UGM_DEMO *Report: UGM_DEMO *2:35: Read Countr


Dialog - 2:35:26 - Read PNG ...

- 002001_DecisionTree
- 009001_DocumentClassific
- 009002_DocumentClusteri
- 009003_TagCloud
- 009004_NamedEntityRecco
- Copy2 of UGM_DEMO
- Itemsets
- KNIME_project
- R View Port and Report Ex
- UGM_DEMO
- Web services

Table Creator

Generic Webservice Client

Read PNG Images



Country Codes

File

PNG Read Config

Flow Variables

Memory Policy

URL Column:

\$ sCountryFlag

☐ Fail on invalid input

☐ Replace input column

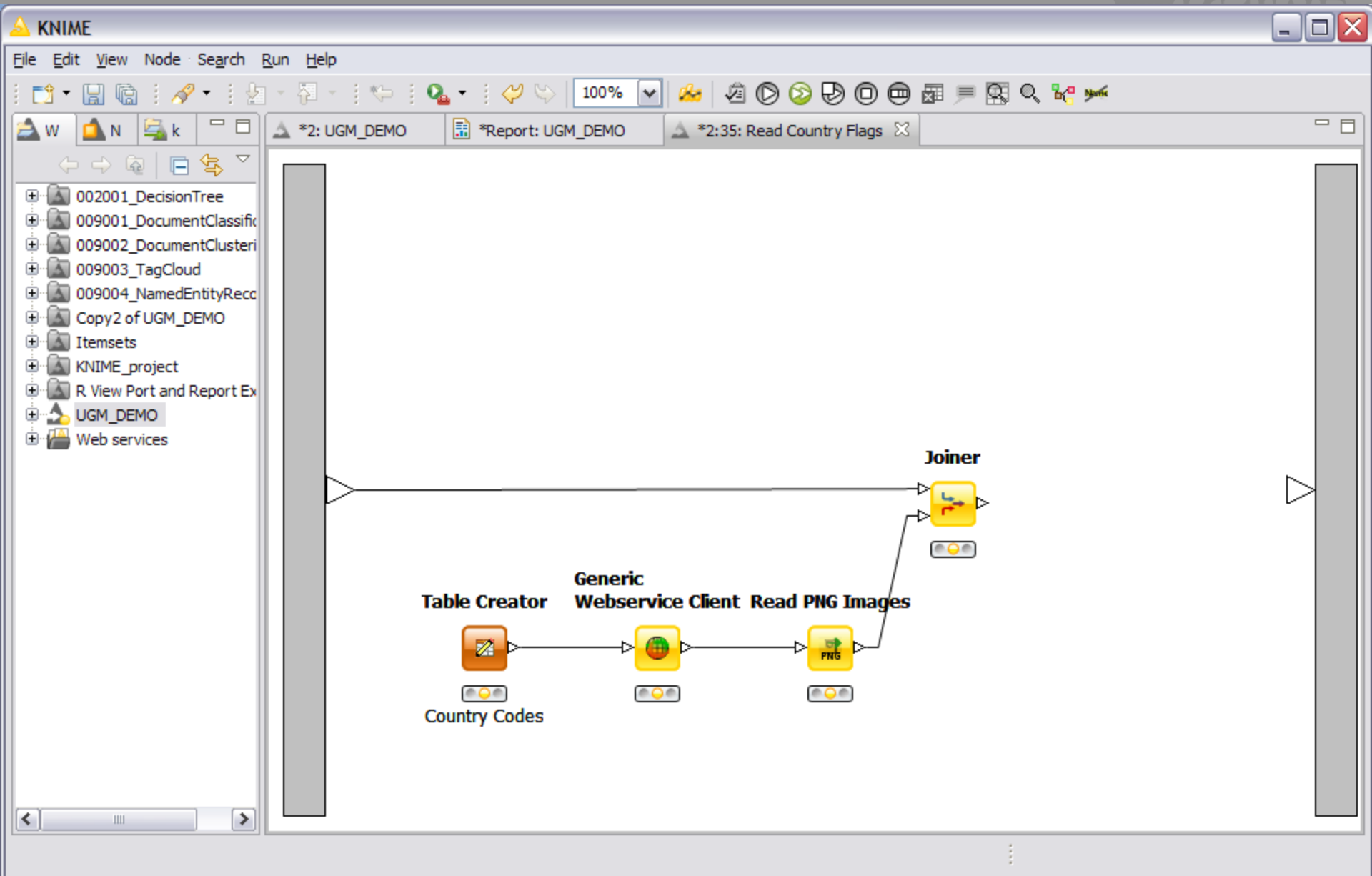
☒ Append new column

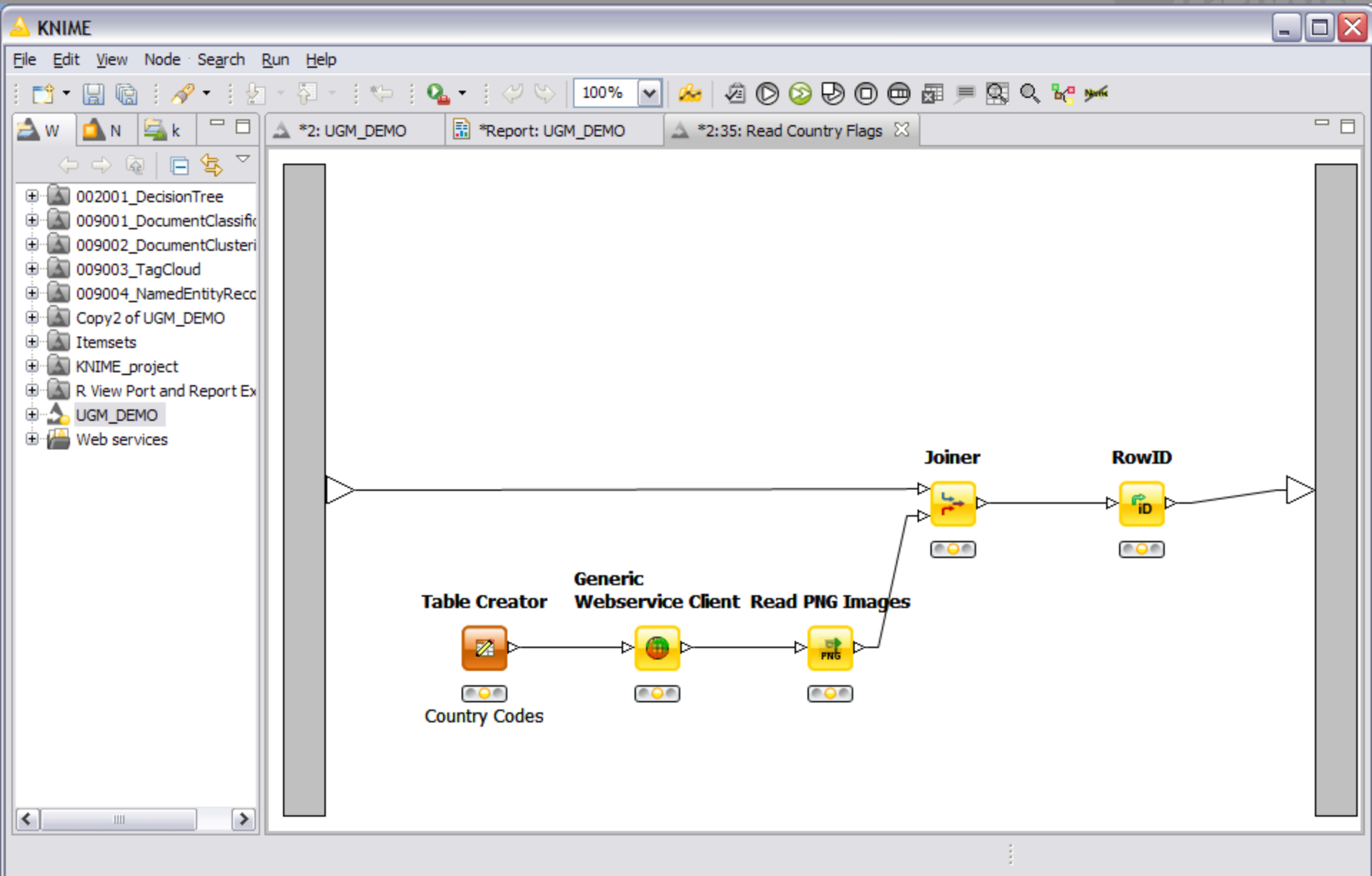
FLAG

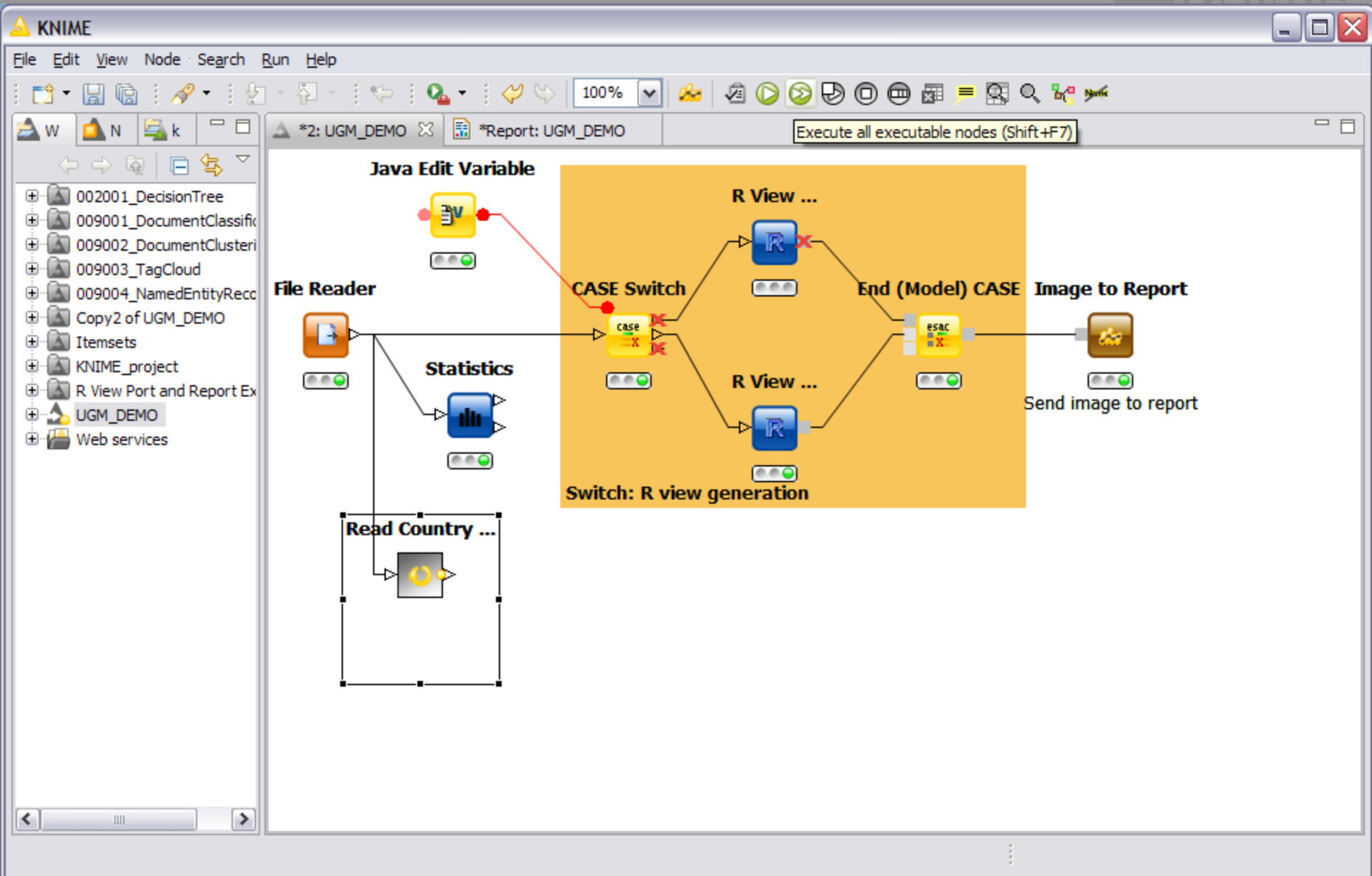
OK

Apply

Cancel







KNIME

File Edit View Node Search Run Help

W N k

002001_DecisionTree
009001_DocumentClassific
009002_DocumentClusteri
009003_TagCloud
009004_NamedEntityReco
Copy2 of UGM_DEMO
Itemsets
KNIME_project
R View Port and Report Ex
UGM_DEMO
Web services

*2: UGM_DEMO *Report: UGM_DEMO

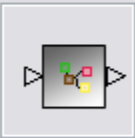
Add Meta Node Wizard

Define the number and type of the desired in and out ports.

Meta Node Name: Filter Continent

In Ports:
in_0 (Data)
Add
Remove

Out Ports:
out_0 (Data)
Add
Remove



< Back

Customize >

Finish

Cancel

Page to Report


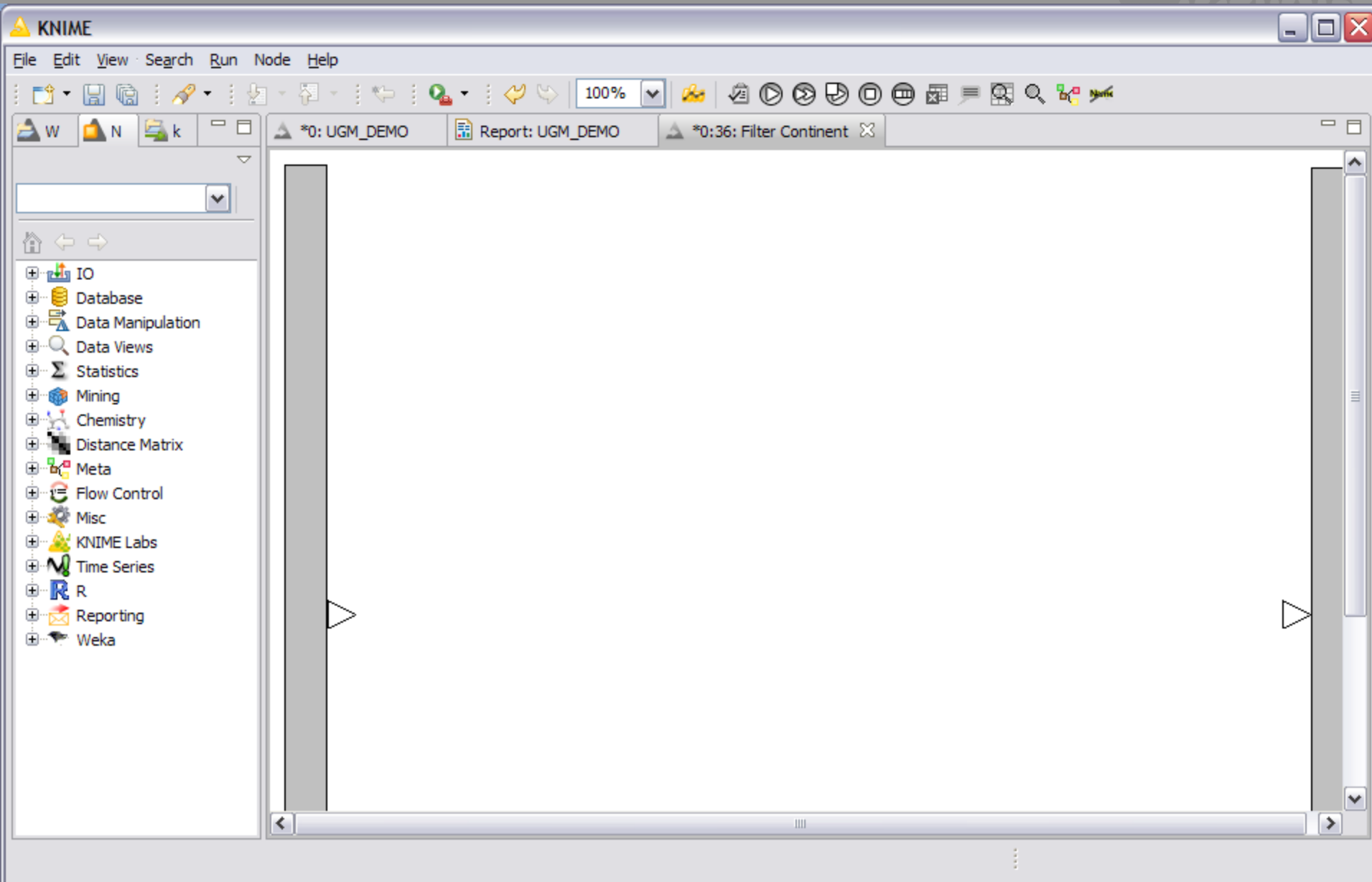
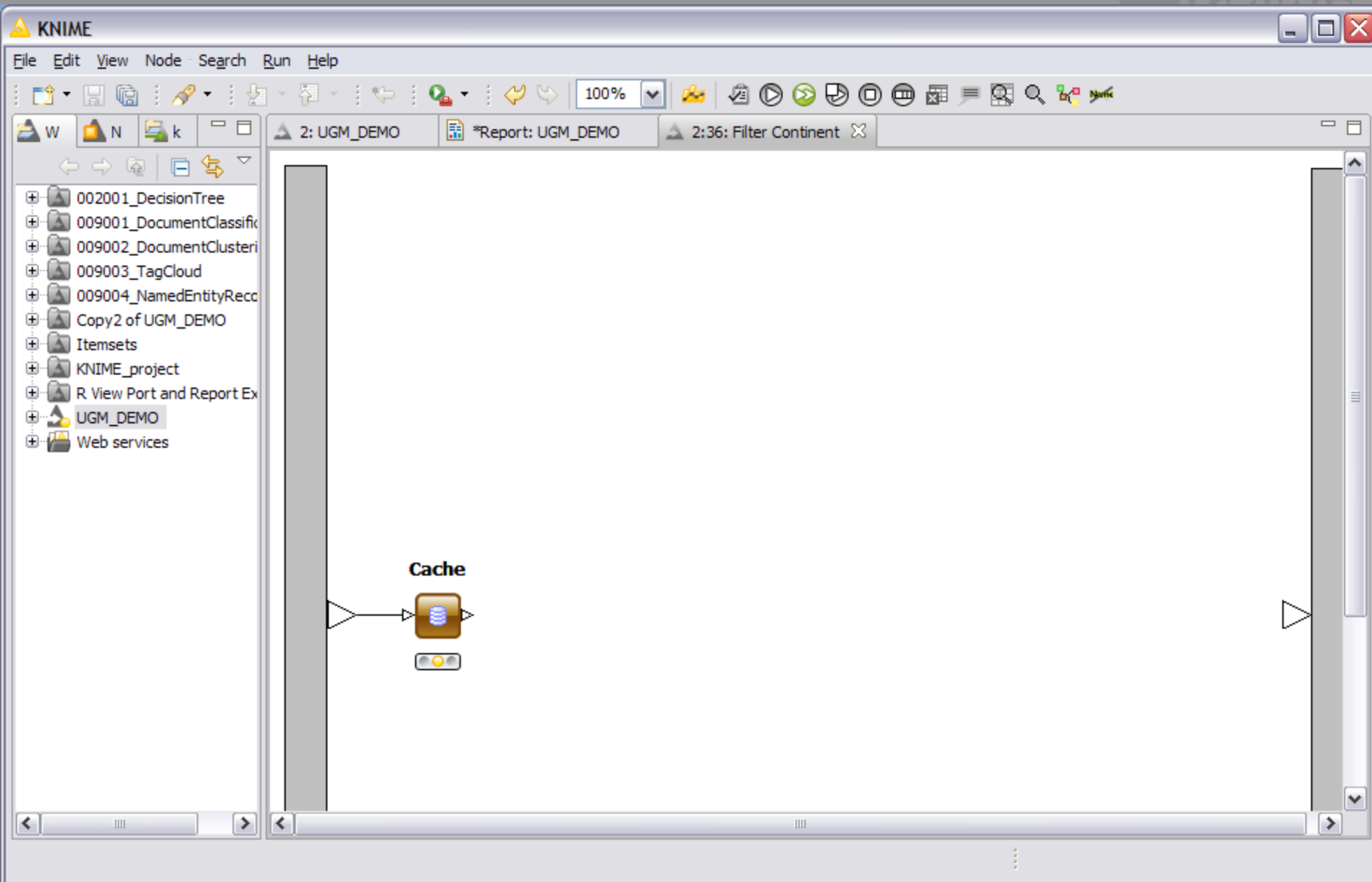




Image to report






KNIME

File Edit View Search Run Node Help



W N k

*0: UGM_DEMO
 Report: UGM_DEMO

IO
 Database
 Data Manipulation
 Data Views
 Statistics
 Mining
 Chemistry
 Distance Matrix
 Meta
 Flow Control
 Misc
 KNIME Labs
 Time Series
 R
 Reporting
 Weka

Table Creator
 Continents

Cache

Dialog - 0:36:34 - Table Creator (Continents)

File

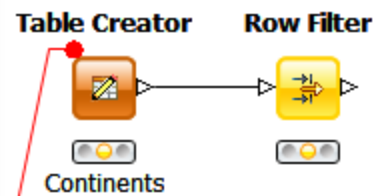
Table Creator Settings
 Flow Variables
 Memory Policy


Input line: Europe

	S Country...	S Continent			
Row1	ANG	Africa			
Row2	SCG	Europe			
Row3	GER	Europe			
Row4	FRA	Europe			
Row5	ESP	Europe			
Row6	ECU	America			
Row7	CZE	Europe			
Row8	CRC	America			
Row9	CIV	Africa			
Row10	BRA	America			
Row11	AUS	Australia			
Row12	ARG	America			
Row13	NED	Europe			
Row14	MEX	America			
Row15	KOR	Asia			


The output table has 32 rows and 2 columns.
 ☐ Highlight output table

OK
 Apply
 Cancel




KNIME

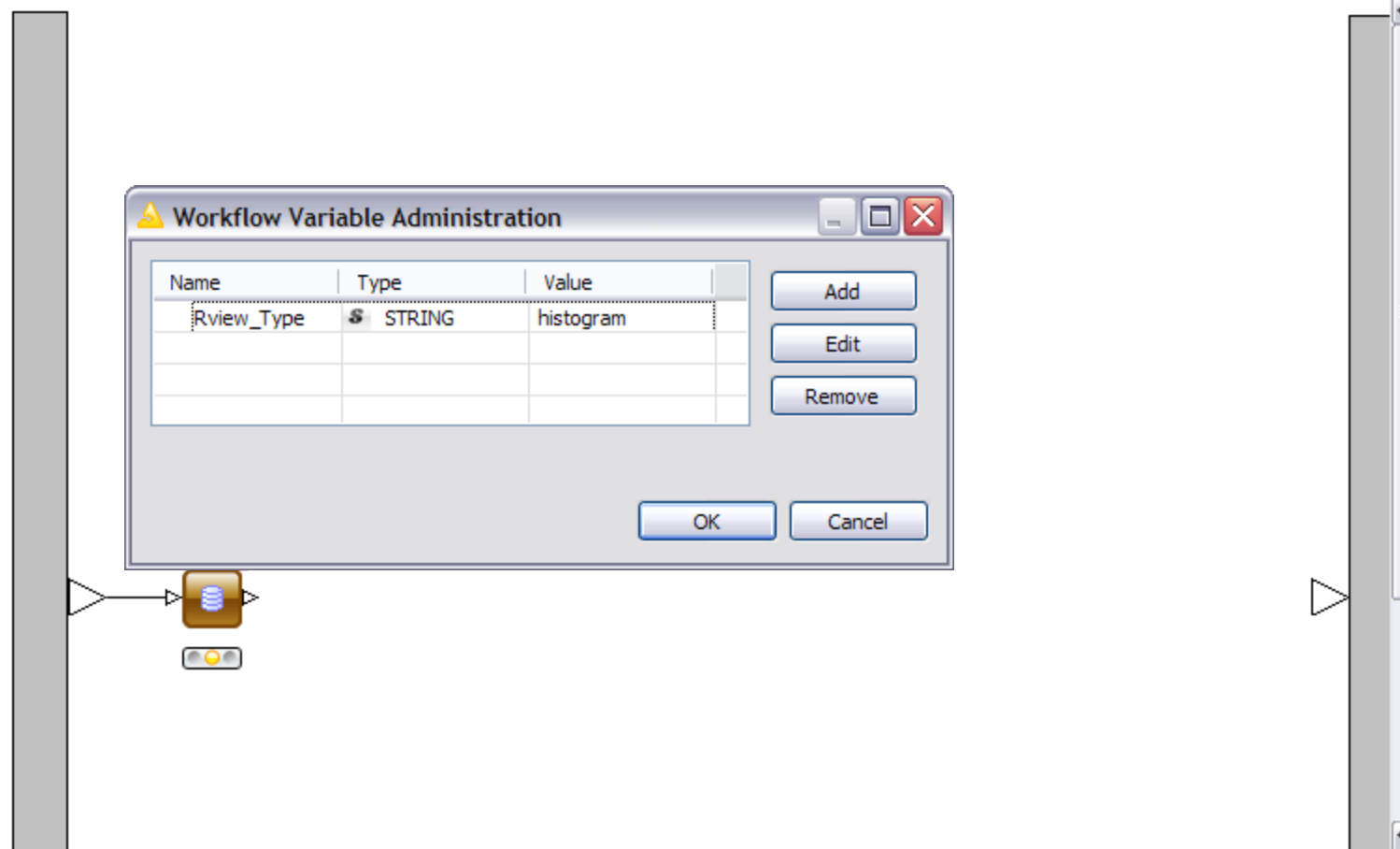
File Edit View Node Search Run Help



W N k

*2: UGM_DEMO Report: UGM_DEMO 0: Copy2 of UGM_DEMO *2:36: Filter Continent

002001_DecisionTree
 009001_DocumentClassific
 009002_DocumentClusteri
 009003_TagCloud
 009004_NamedEntityReco
 Copy2 of UGM_DEMO
 Itemsets
 KNIME_project
 R View Port and Report Ex
 UGM_DEMO
 Web services




Workflow Variable Administration

Name	Type	Value
Rview_Type	STRING	histogram


Add
 Edit
 Remove

OK Cancel

UGM_DEMO


KNIME

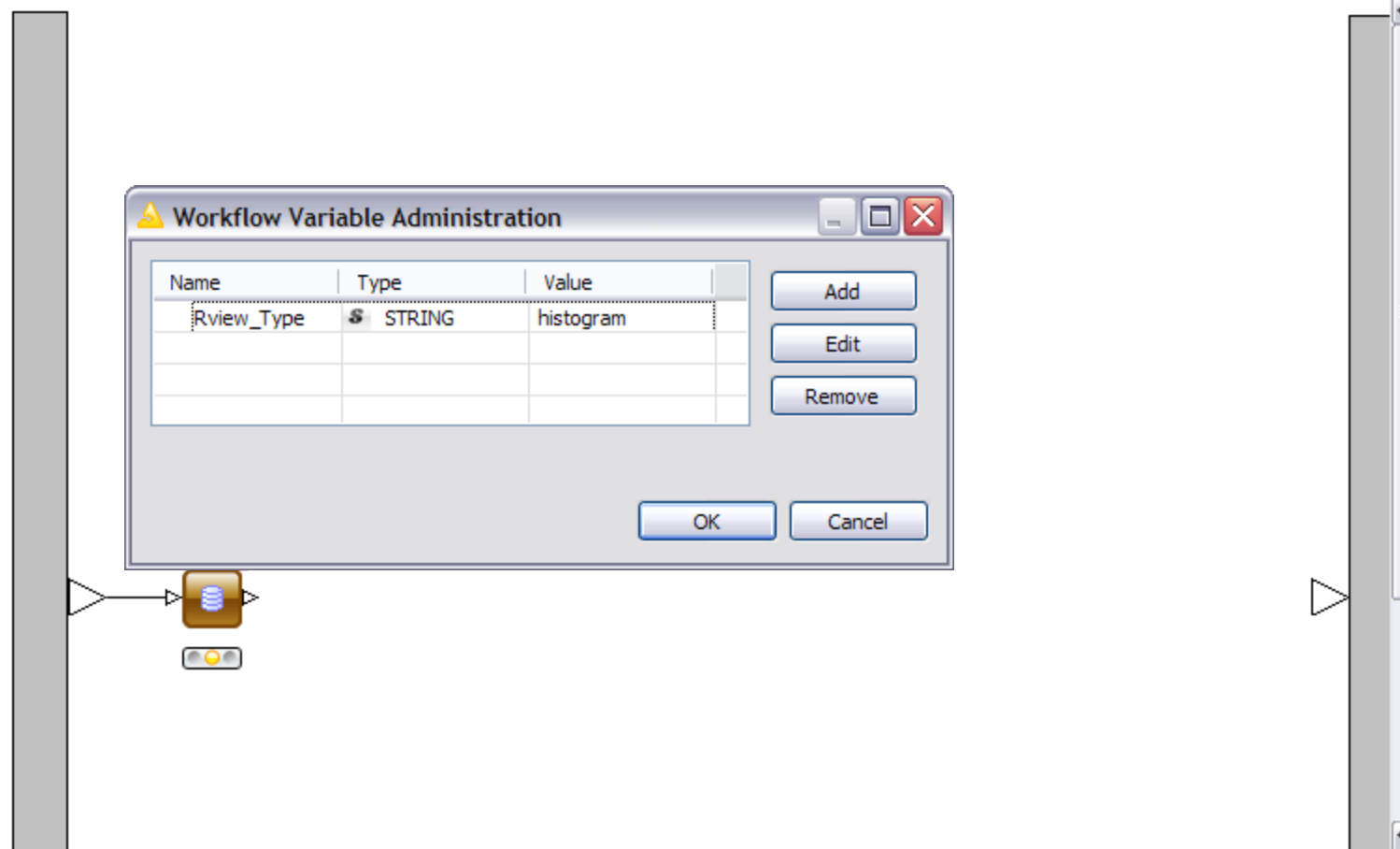
File Edit View Node Search Run Help



W N k

*2: UGM_DEMO Report: UGM_DEMO 0: Copy2 of UGM_DEMO *2:36: Filter Continent

002001_DecisionTree
 009001_DocumentClassific
 009002_DocumentClusteri
 009003_TagCloud
 009004_NamedEntityReco
 Copy2 of UGM_DEMO
 Itemsets
 KNIME_project
 R View Port and Report Ex
 UGM_DEMO
 Web services



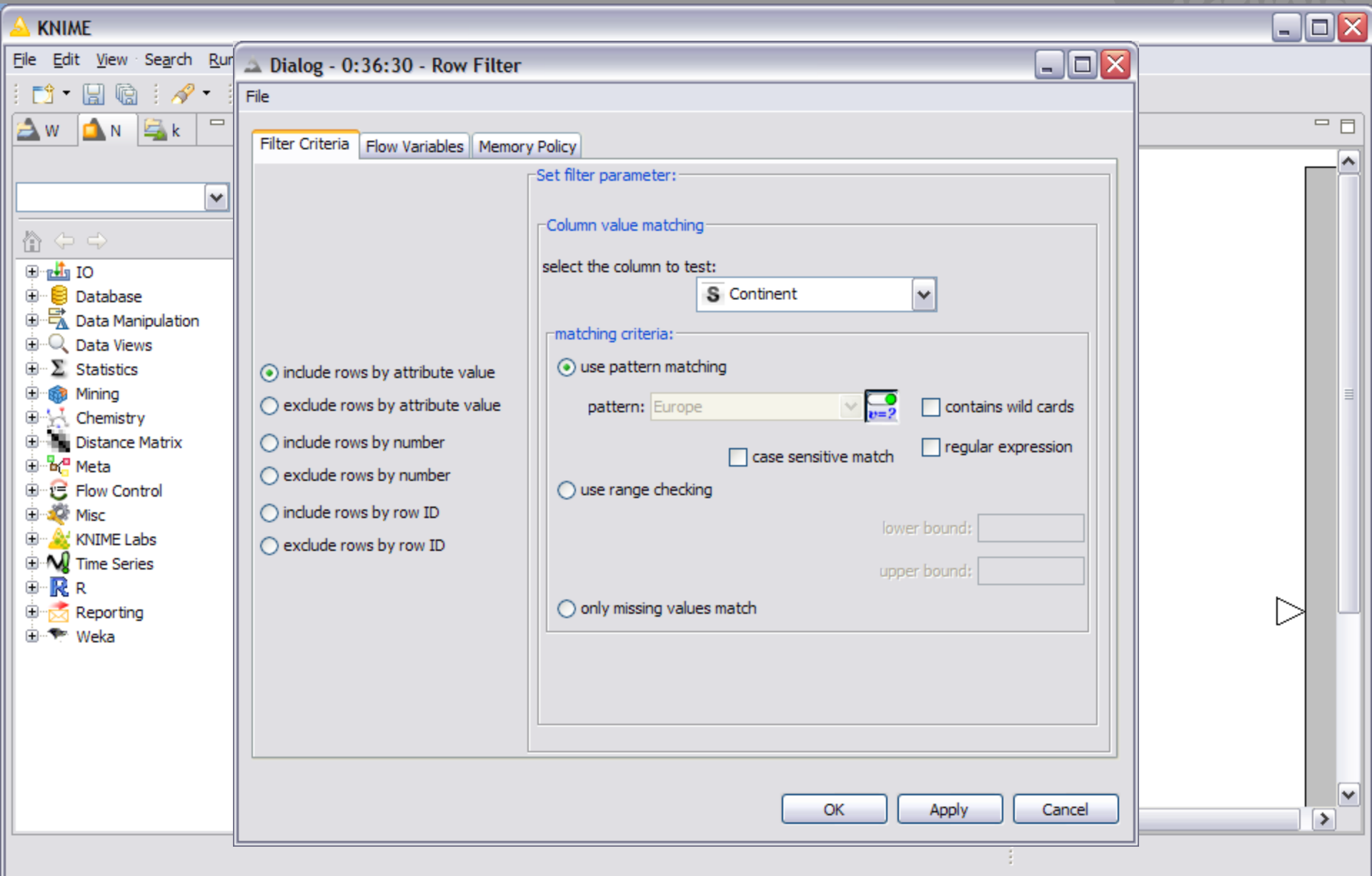
Workflow Variable Administration

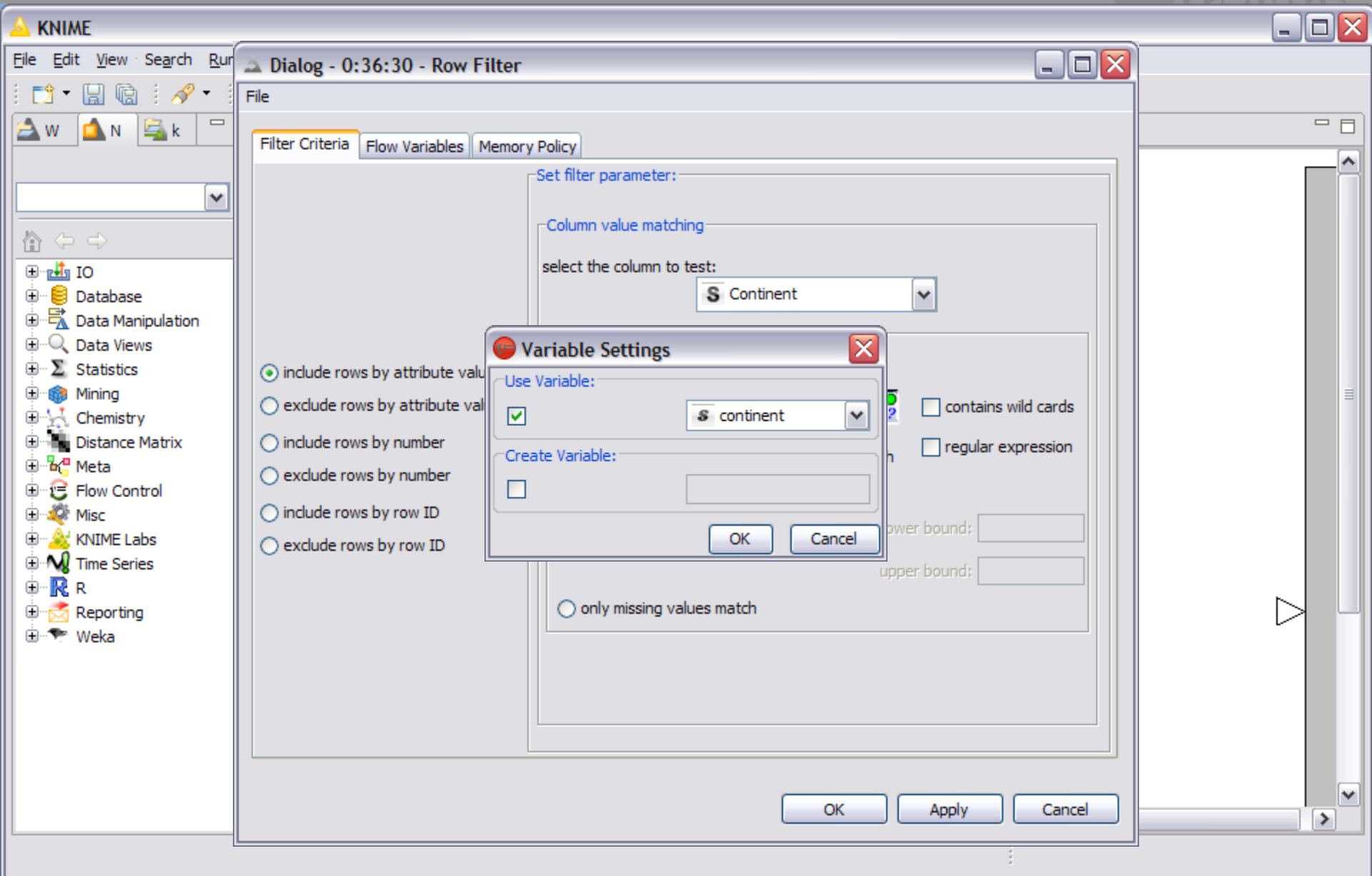
Name	Type	Value
Rview_Type	STRING	histogram


Add
 Edit
 Remove

OK Cancel


UGM_DEMO






KNIME

File Edit View Search Run Node Help




W N k

*0: UGM_DEMO Report: UGM_DEMO *0:36: Filter Continent

IO
Database
Data Manipulation
Data Views
Statistics
Mining
Chemistry
Distance Matrix
Meta
Flow Control
Misc
KNIME Labs
Time Series
R
Reporting
Weka


Cache

Table Creator



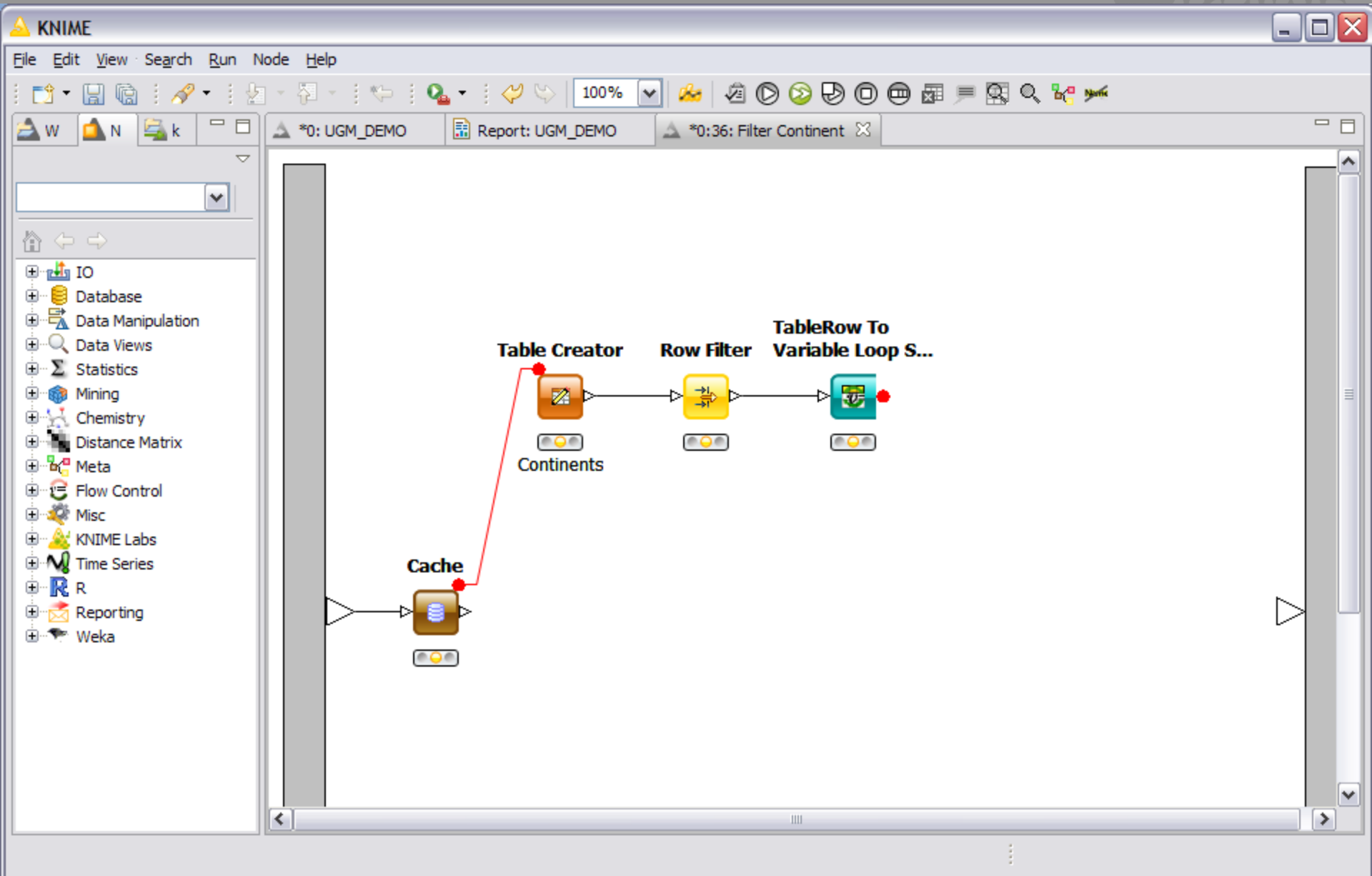
Continents

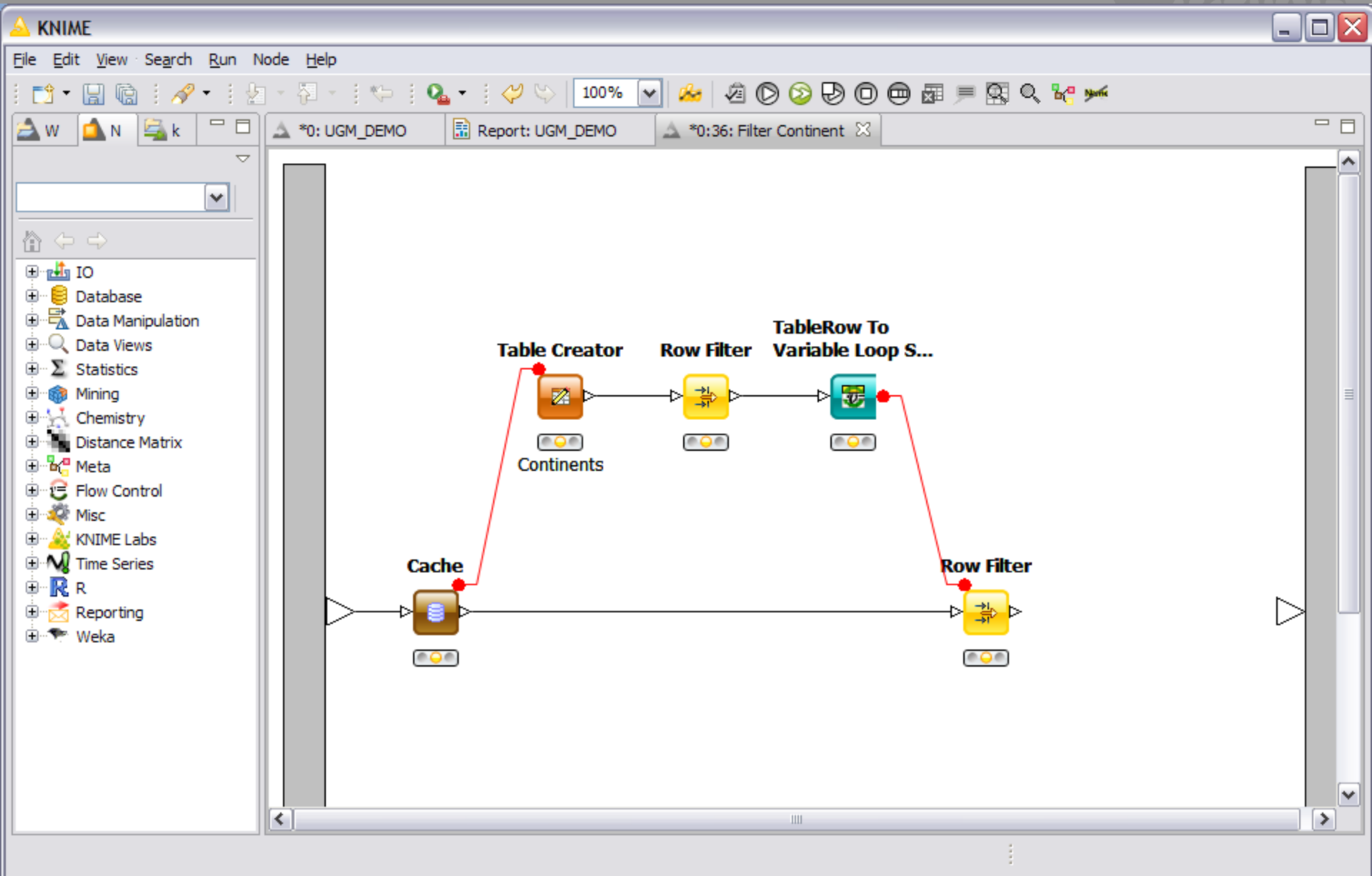
Row Filter

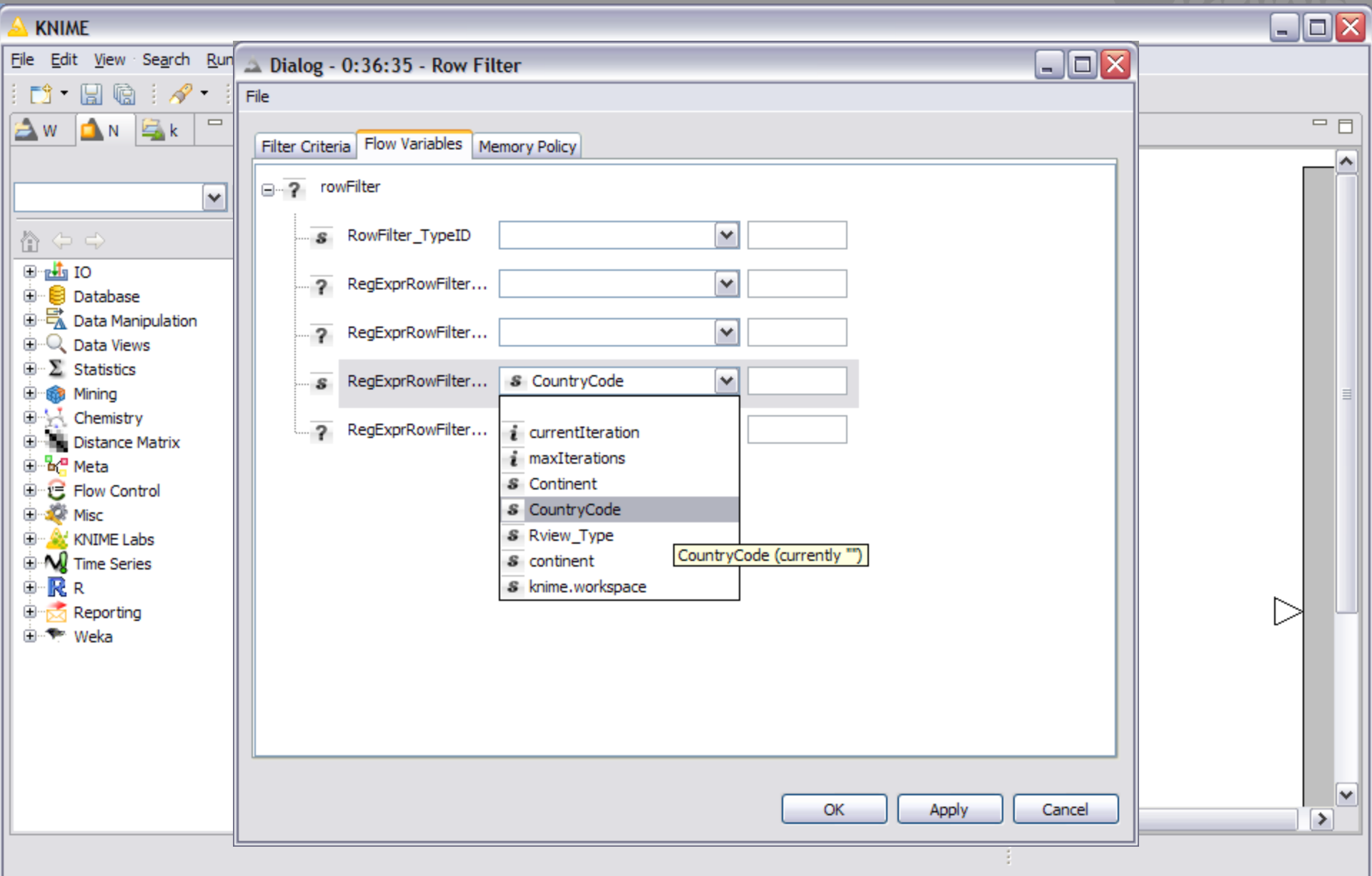


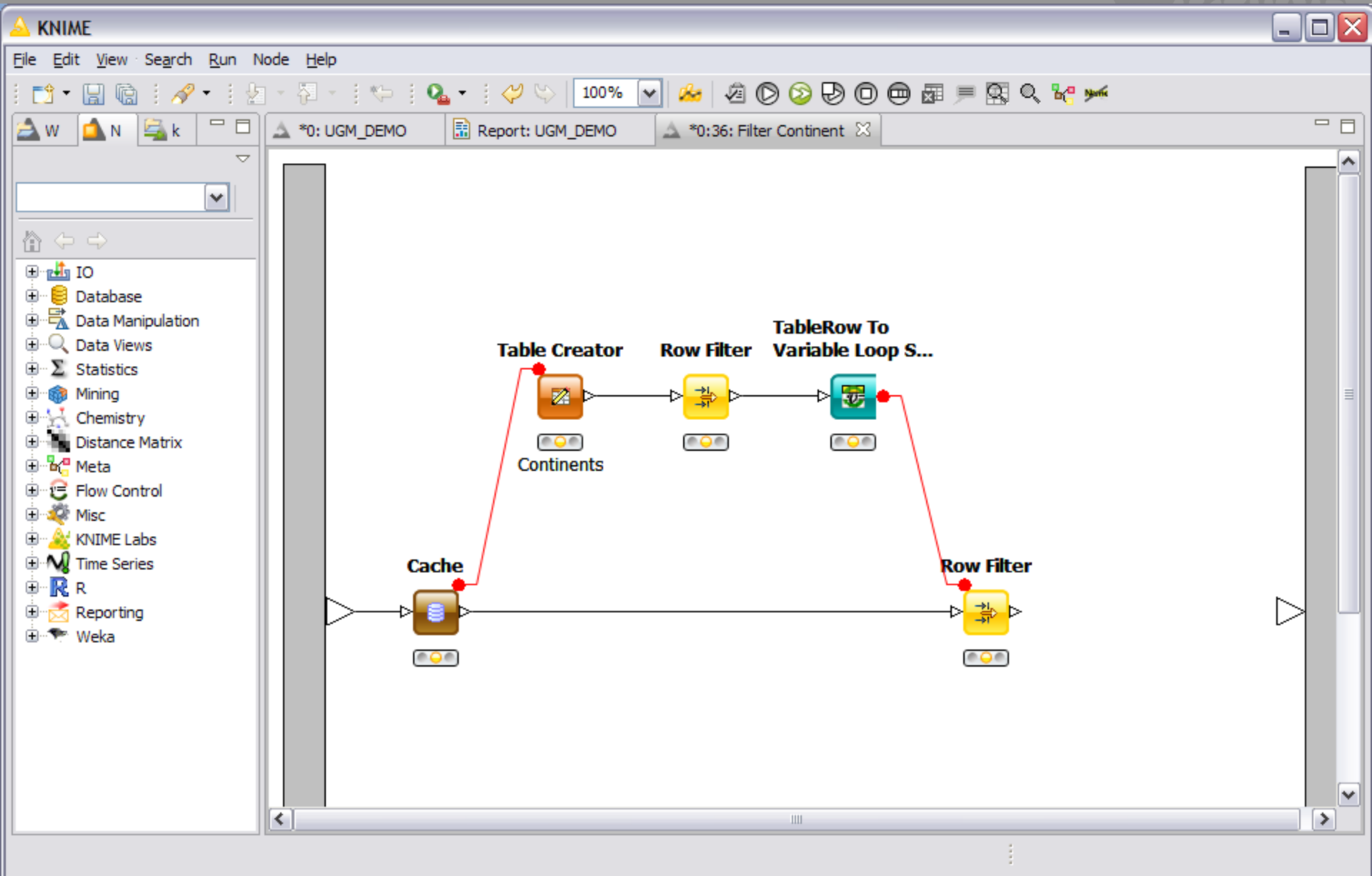
```

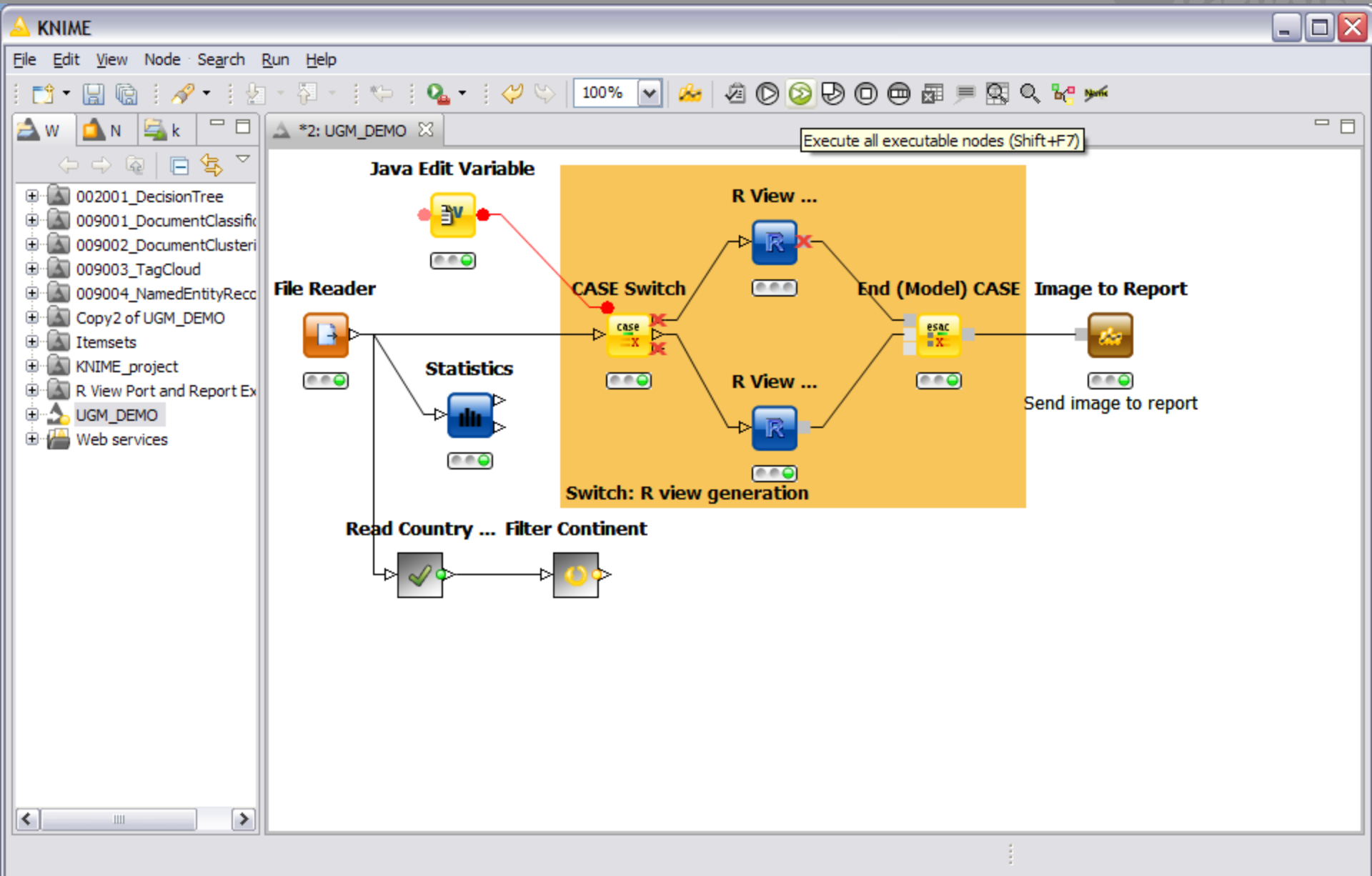
    graph LR
      In(( )) --> Cache[Cache]
      Cache --> TC[Table Creator]
      TC --> RF[Row Filter]
      RF --> Out(( ))
  
```

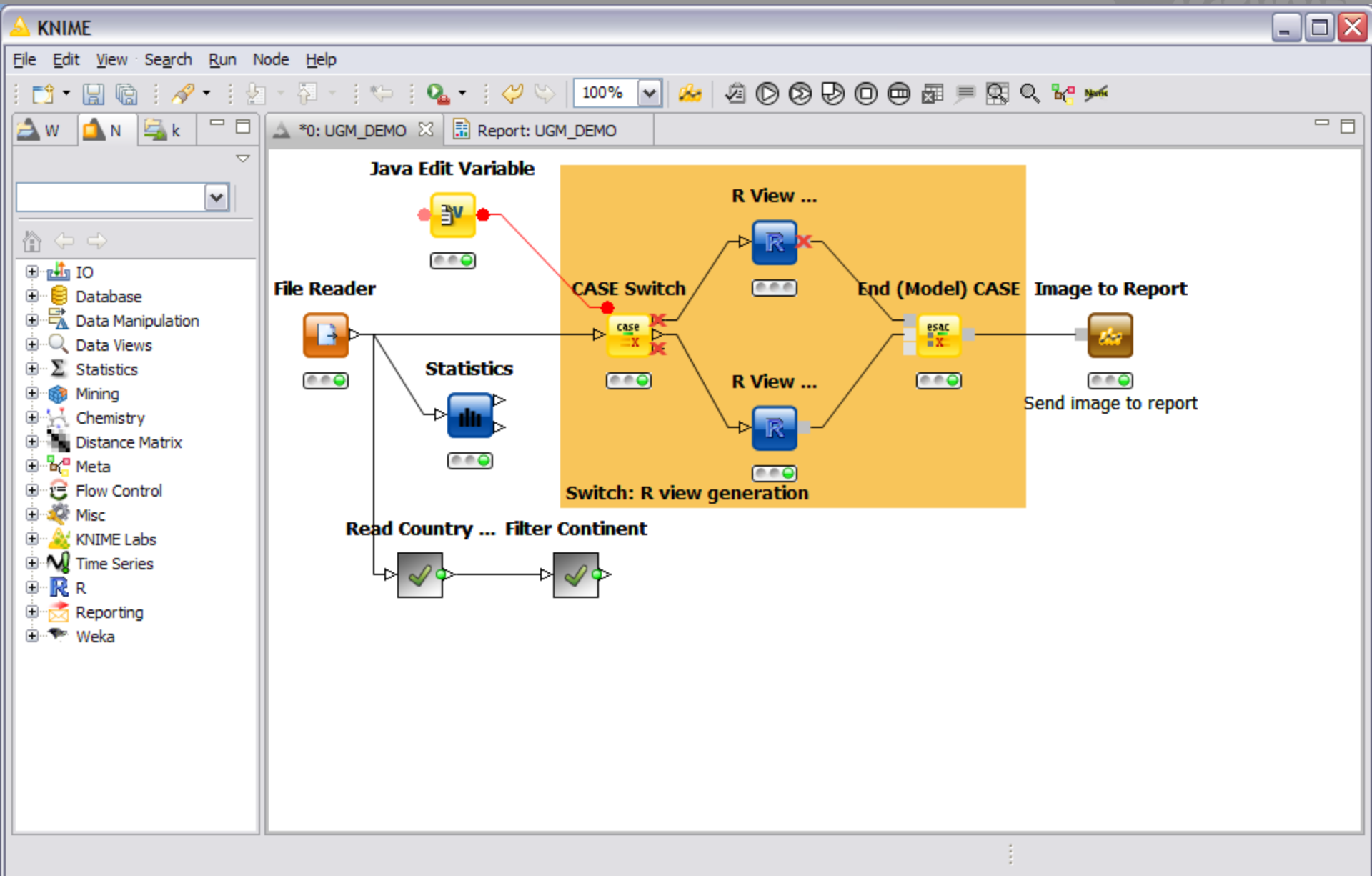



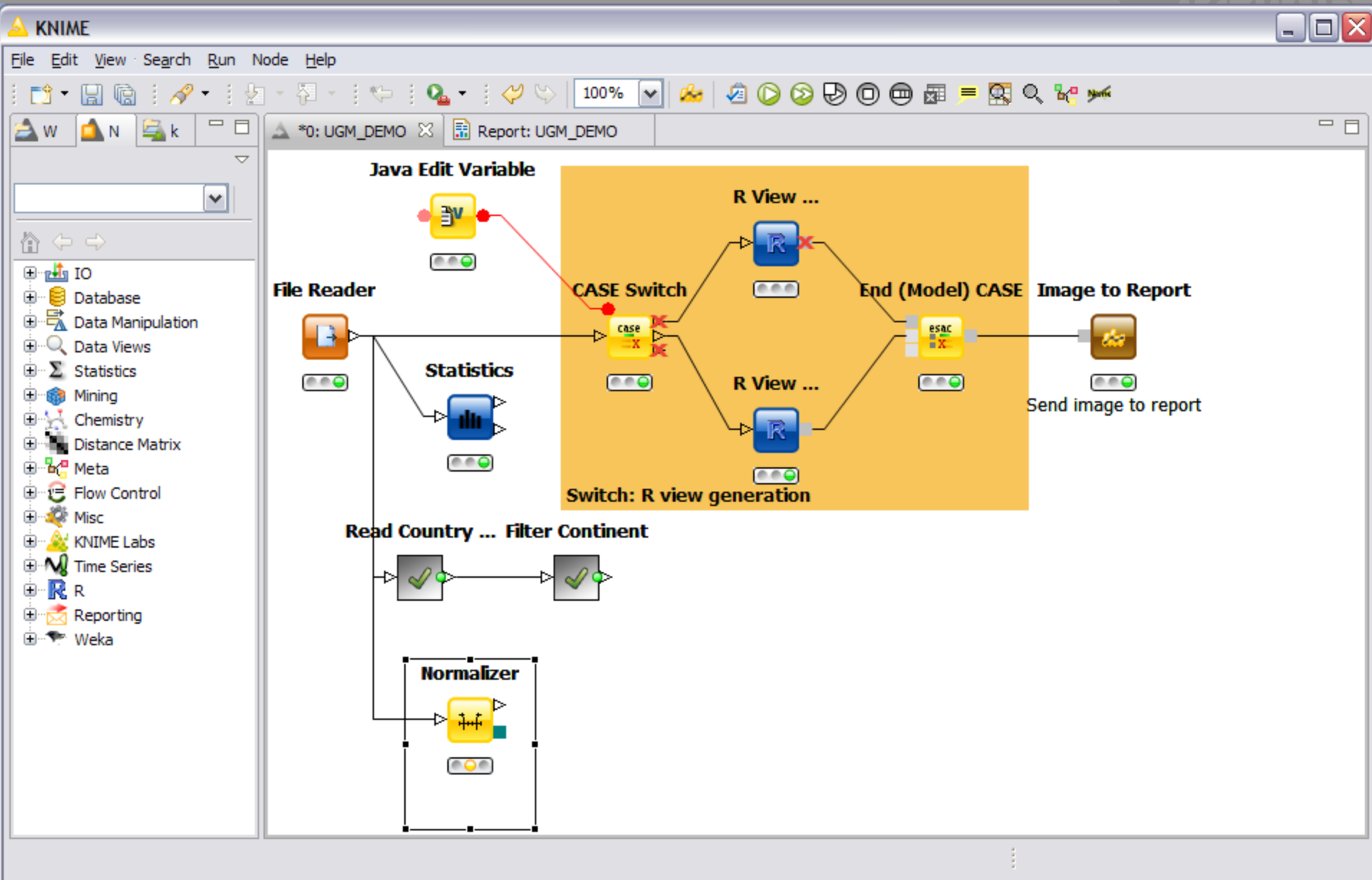


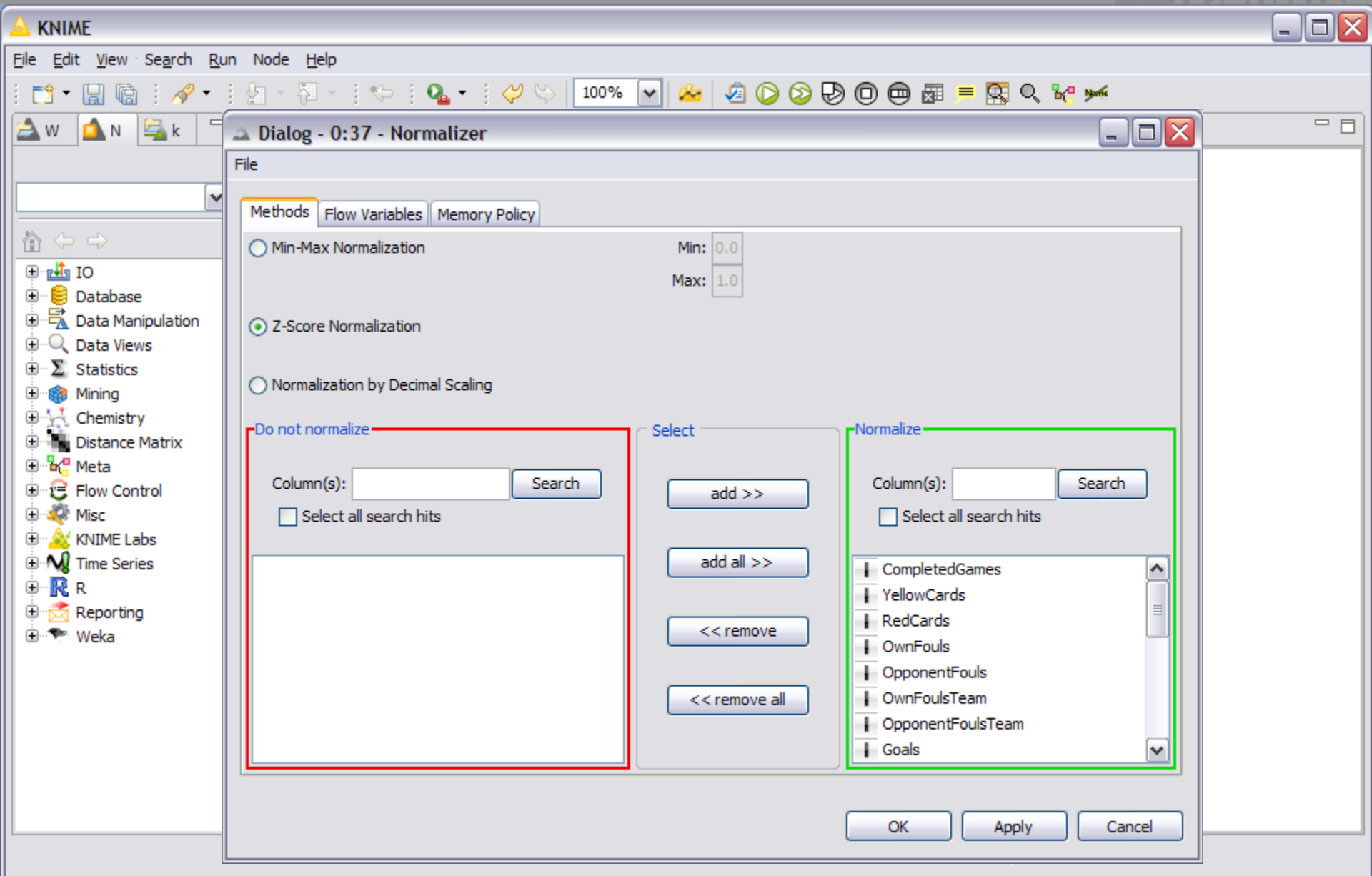


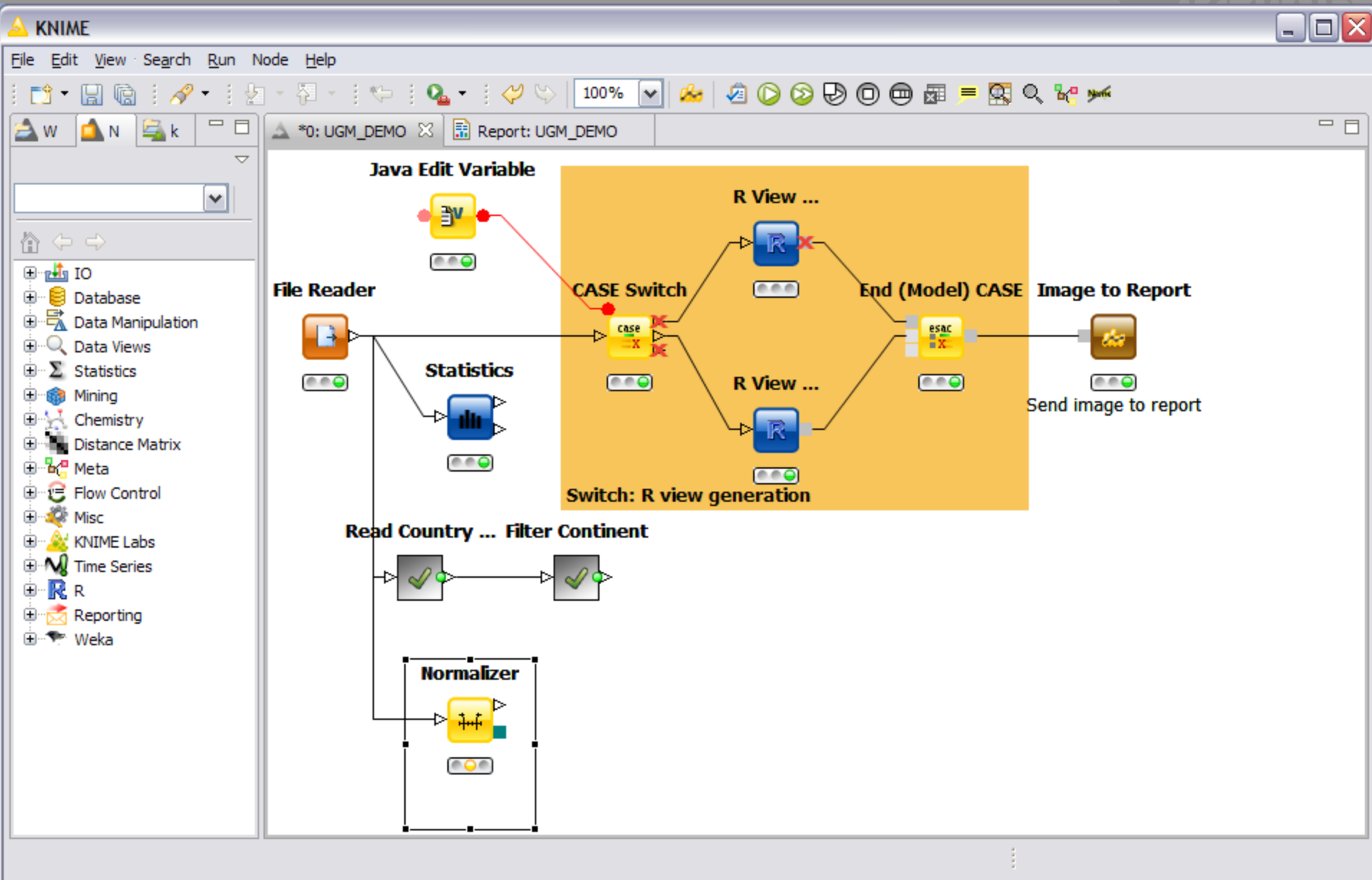


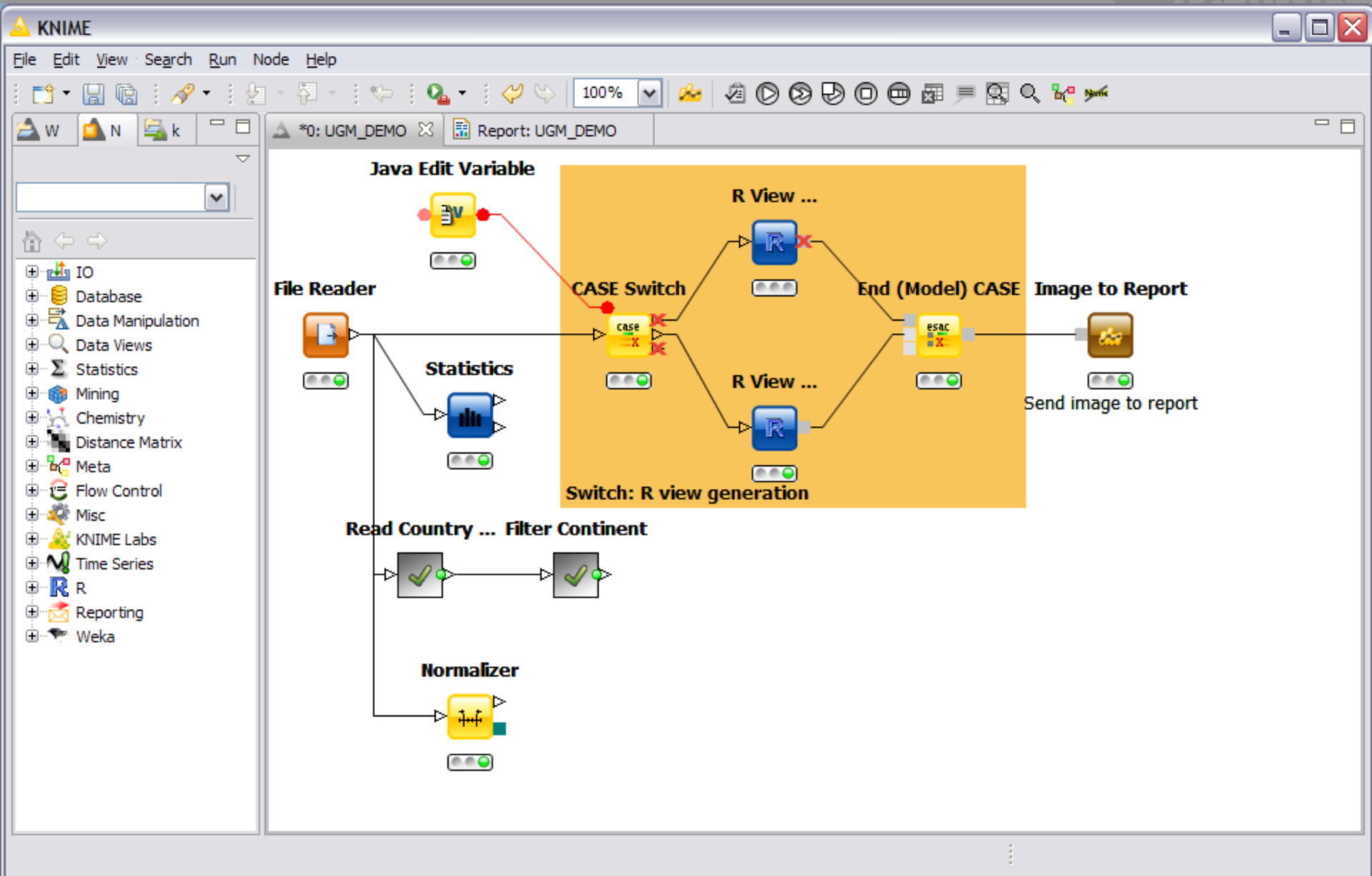


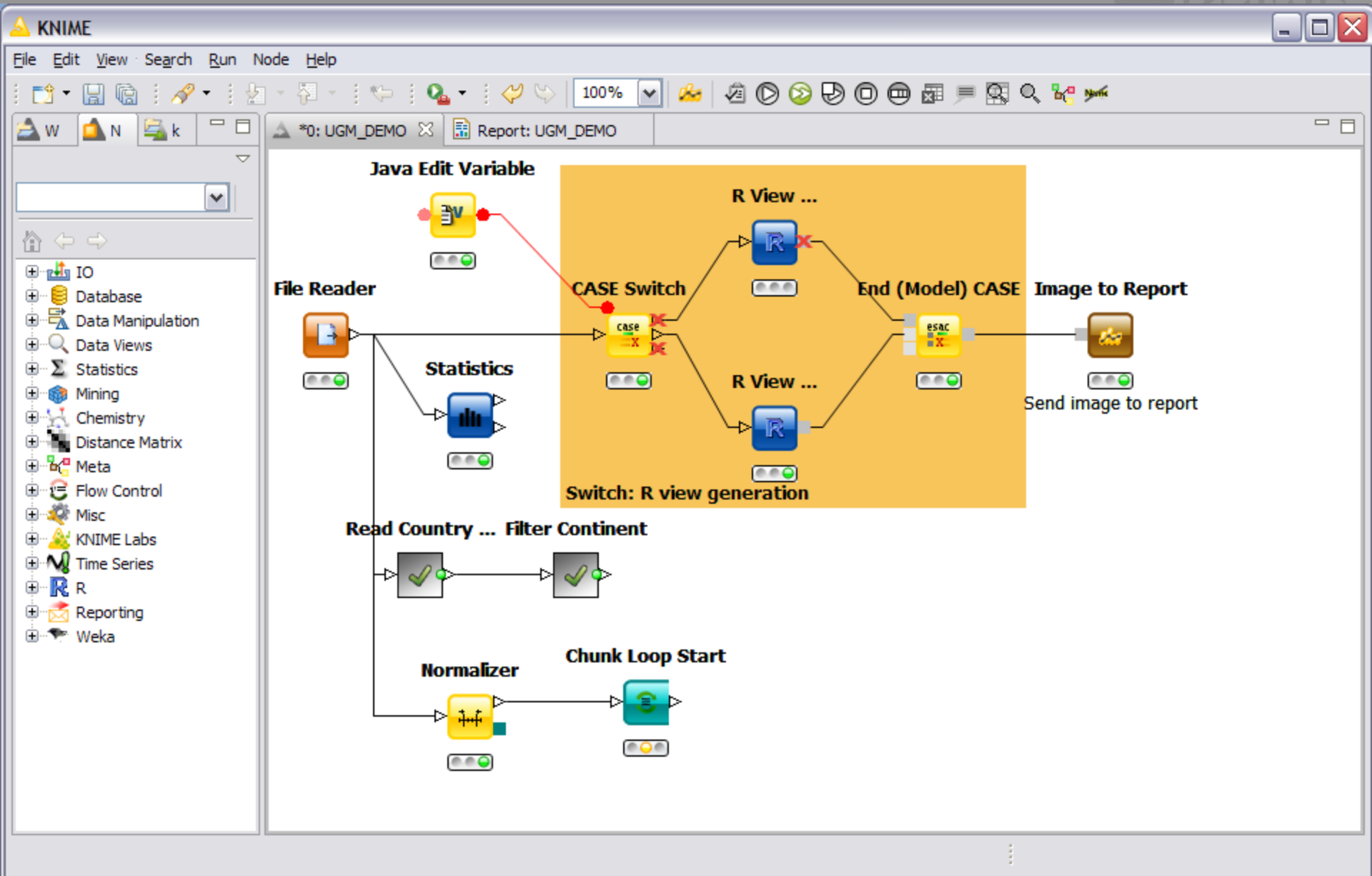


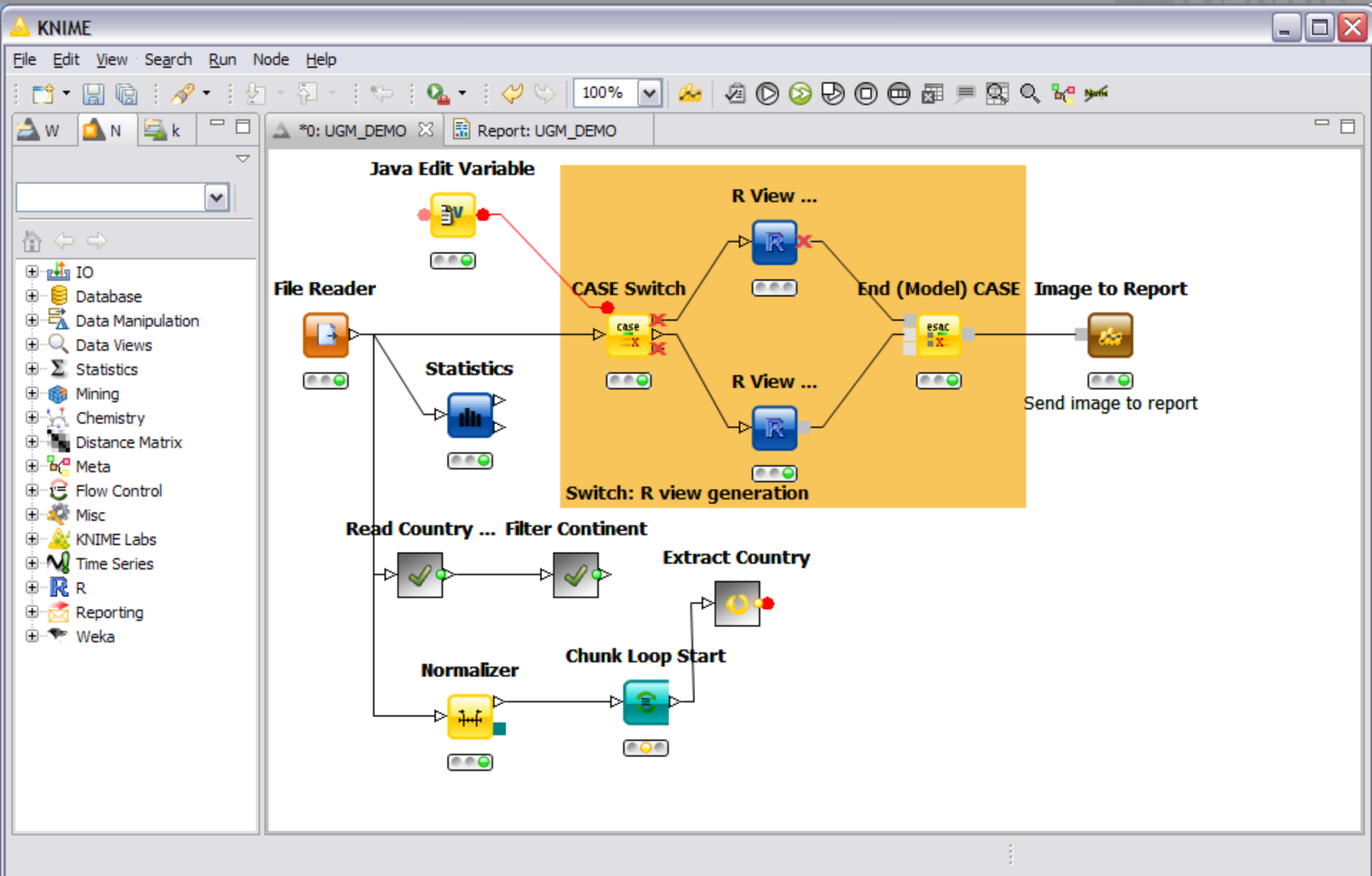


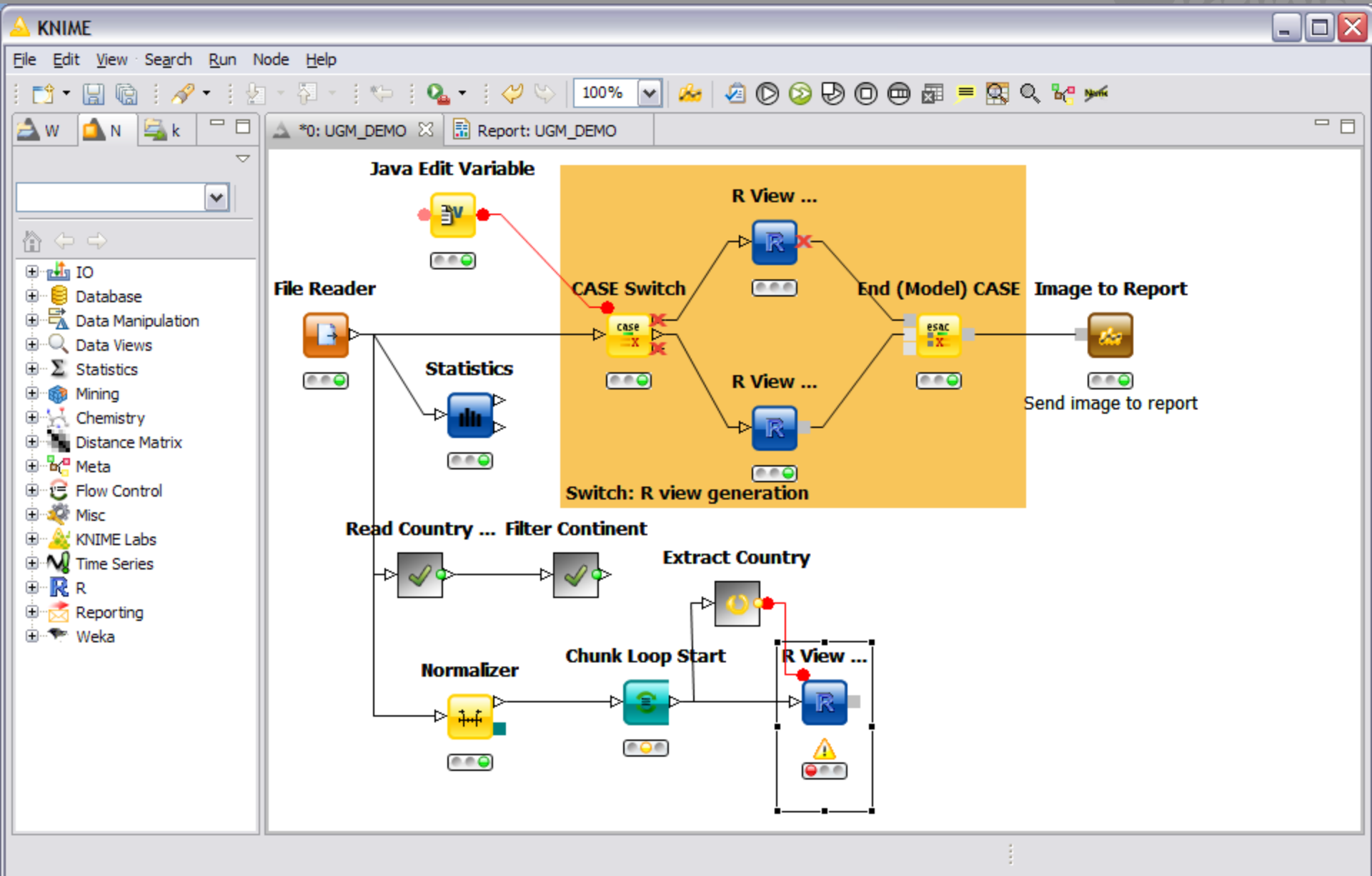










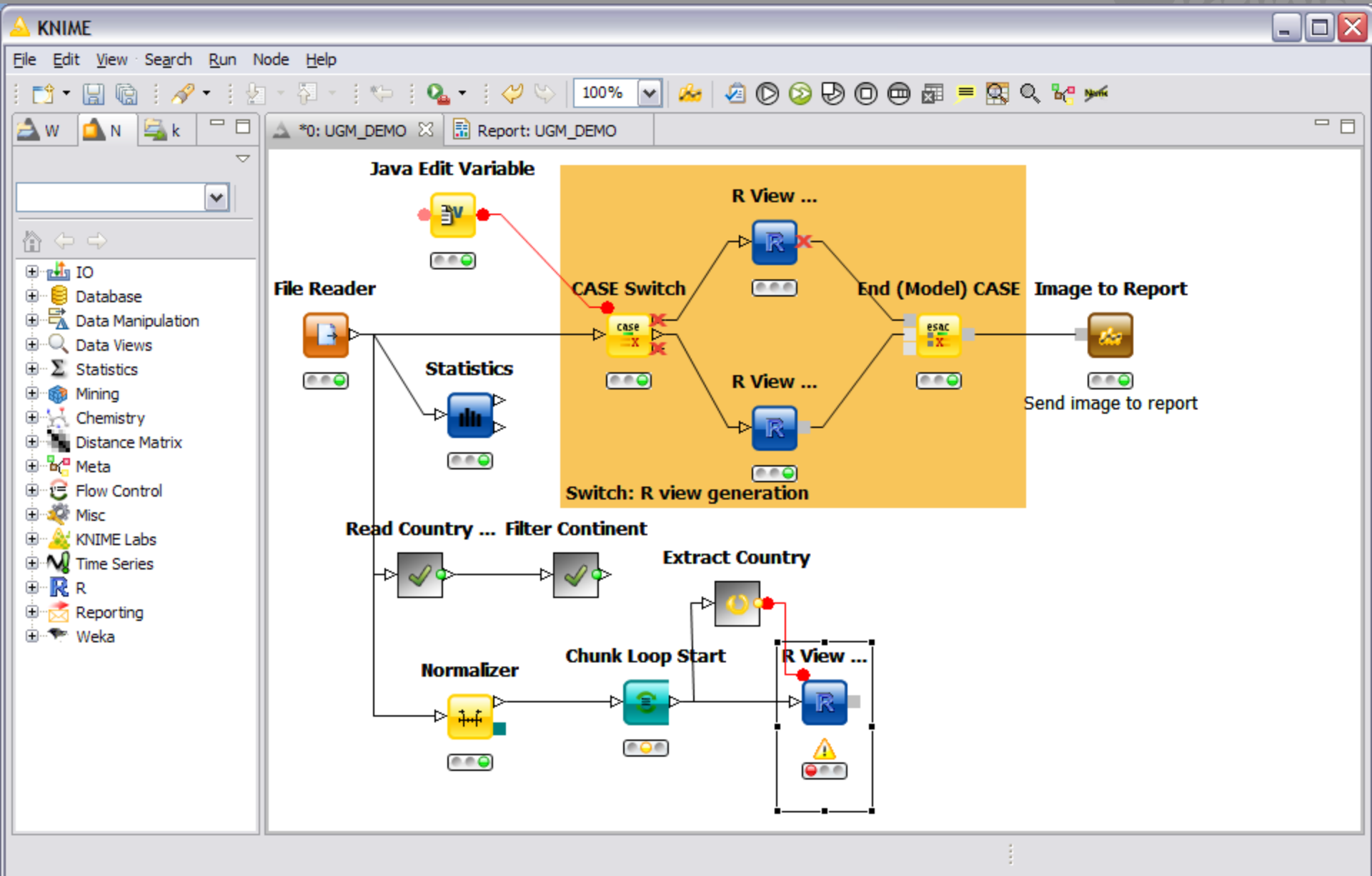


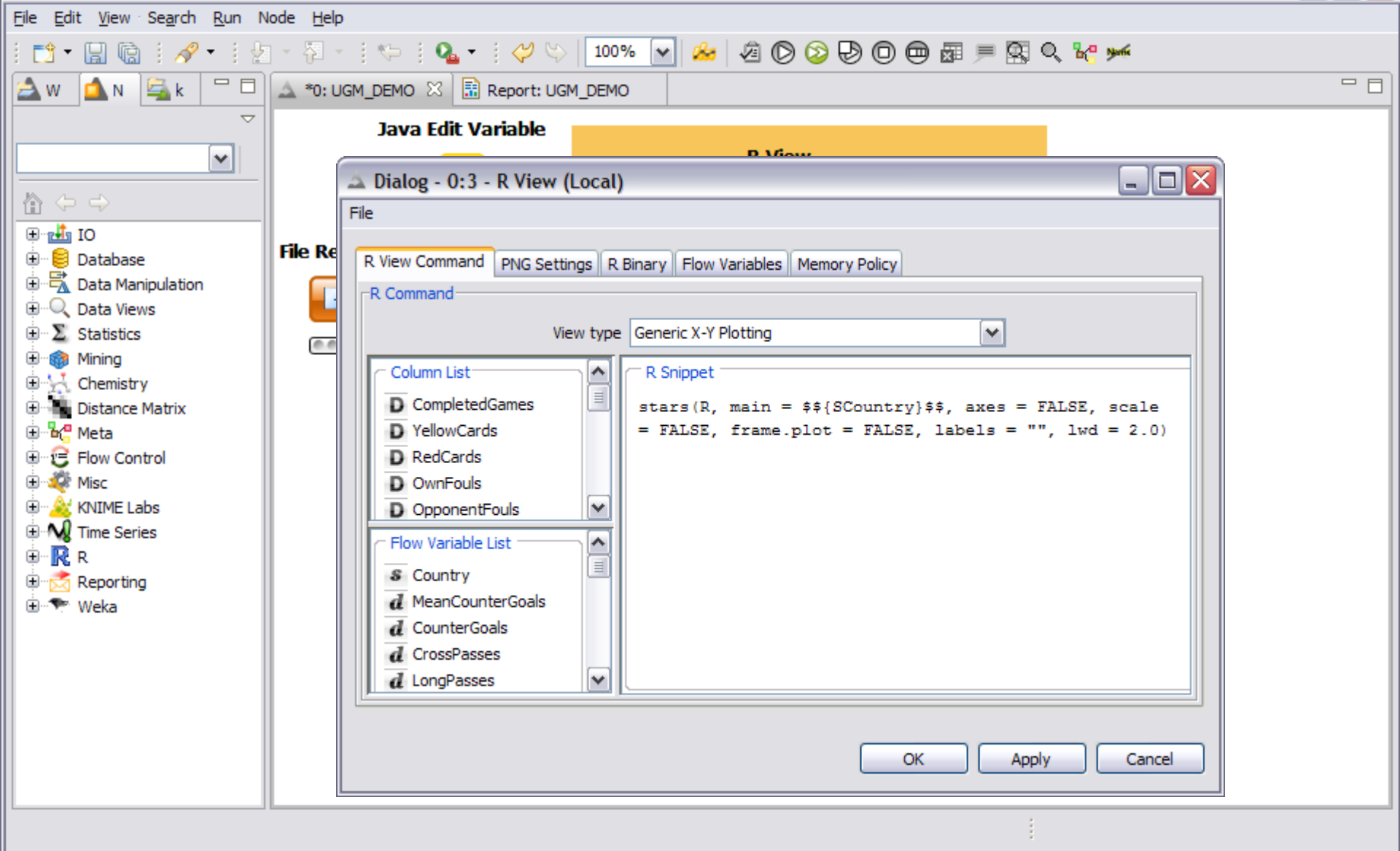
New in v2.2 / v2.3

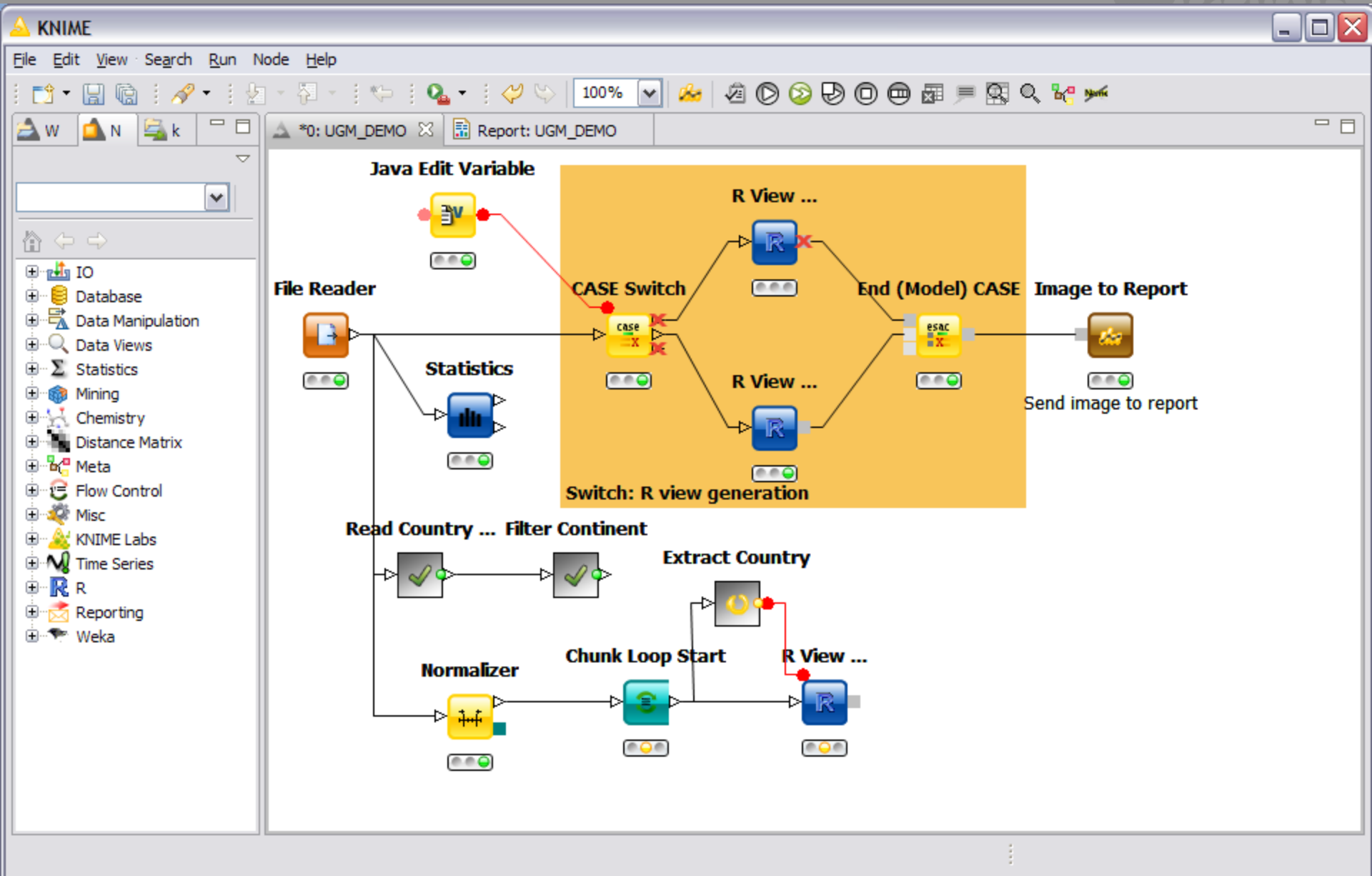
Flow Variable ports

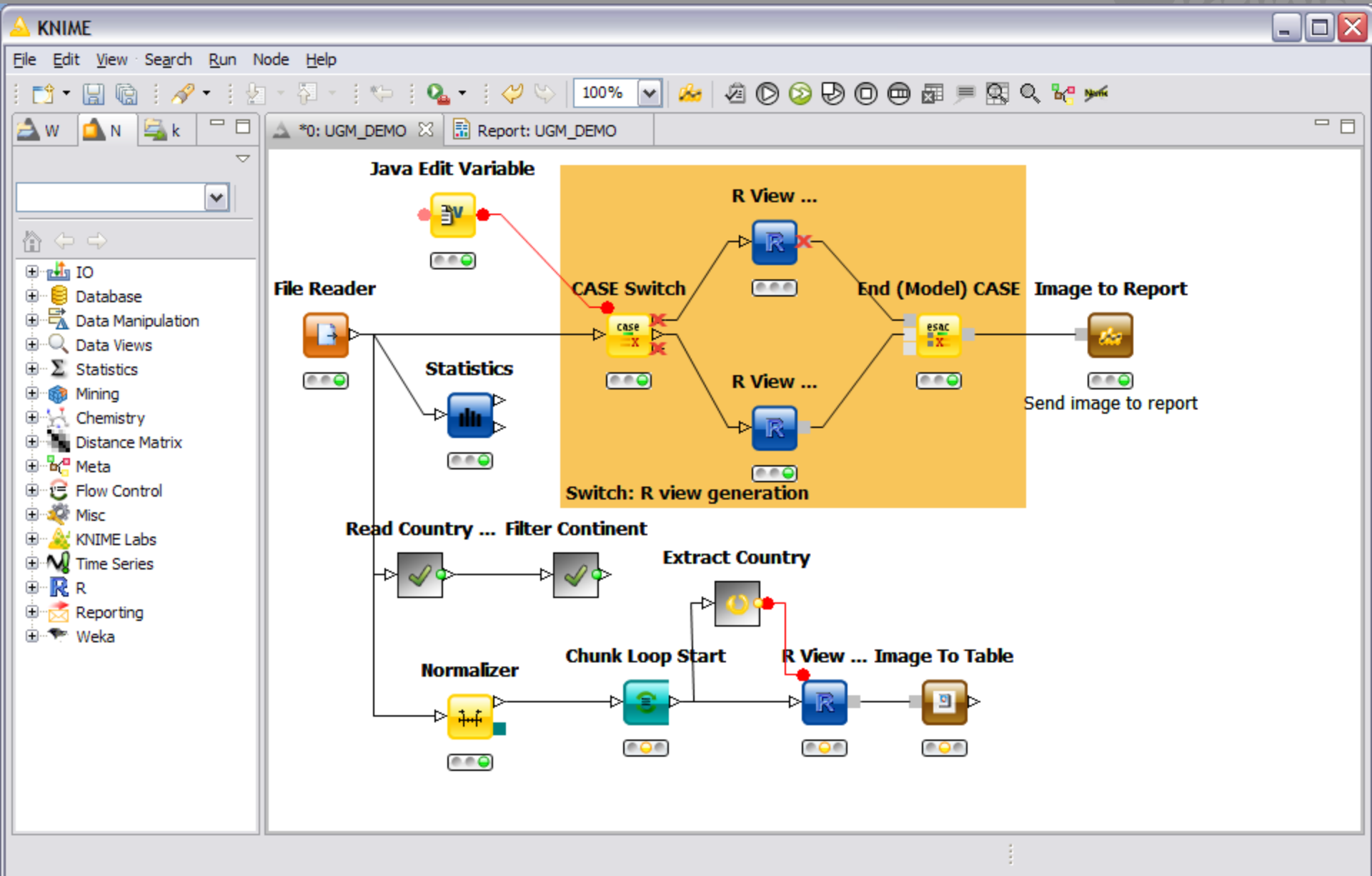
- can be used to extract and inject variables into a workflow.
- Since v2.3: available at each KNIME node.

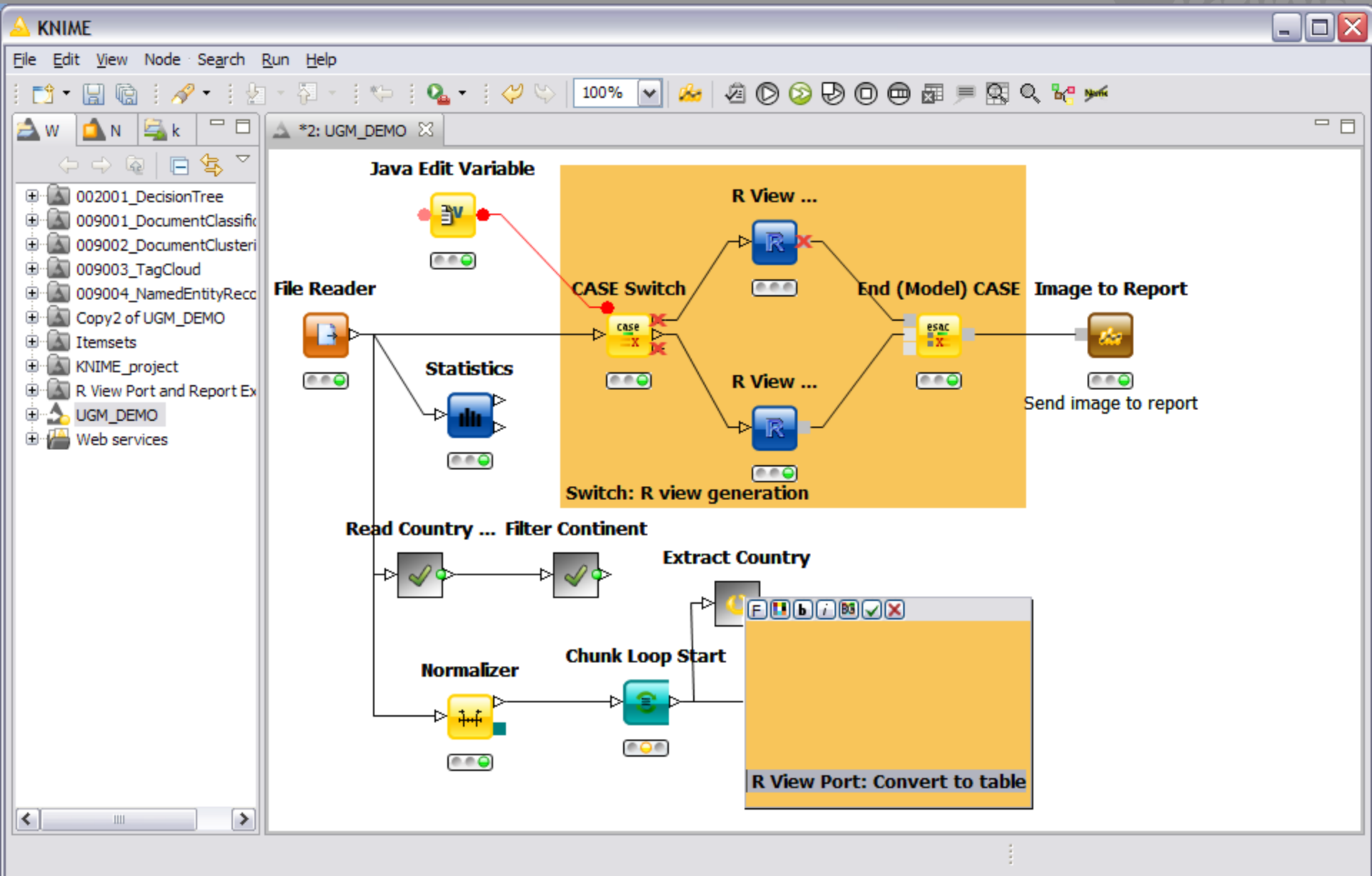
(also useful to enforce an execution order.)

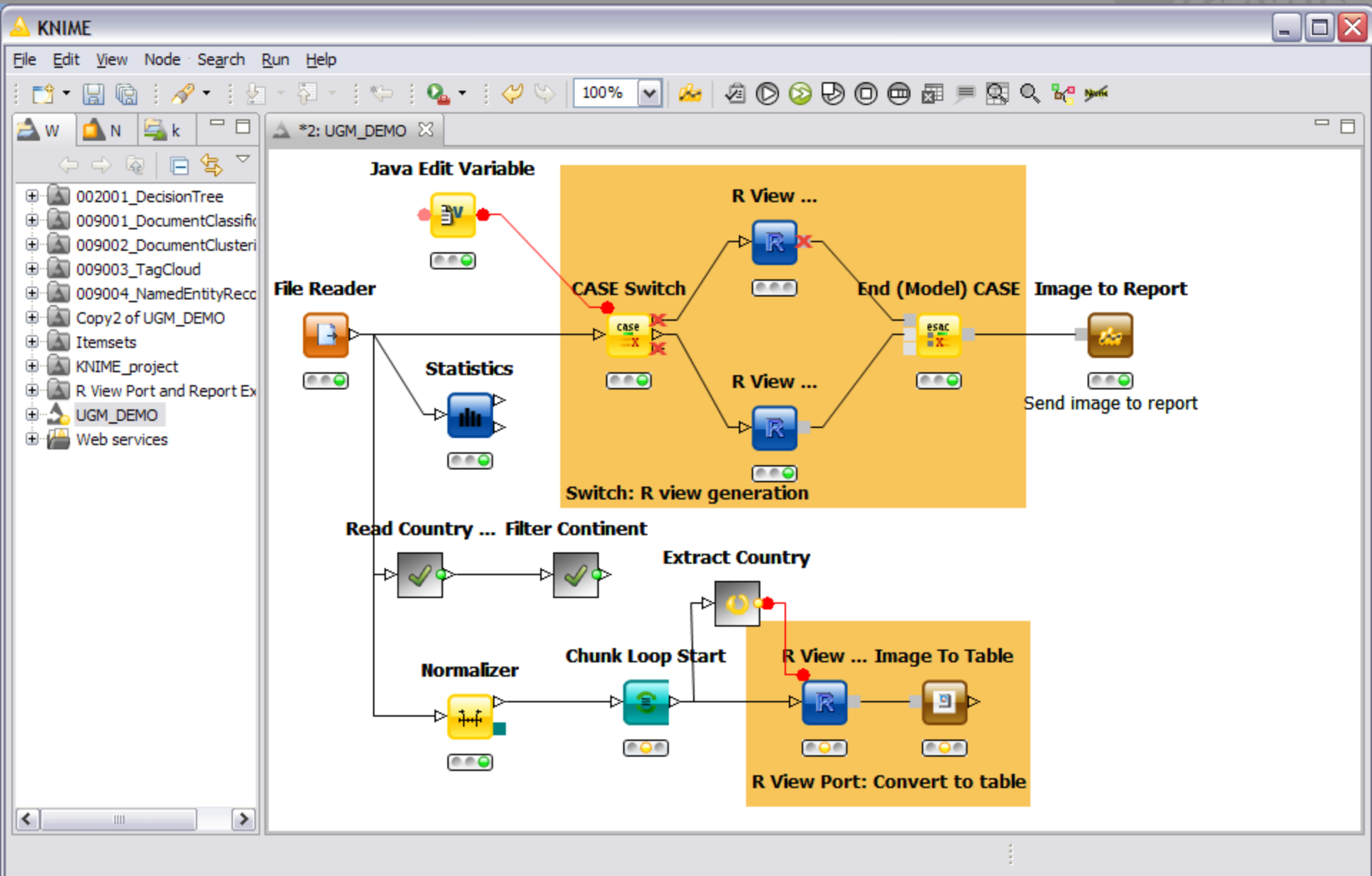


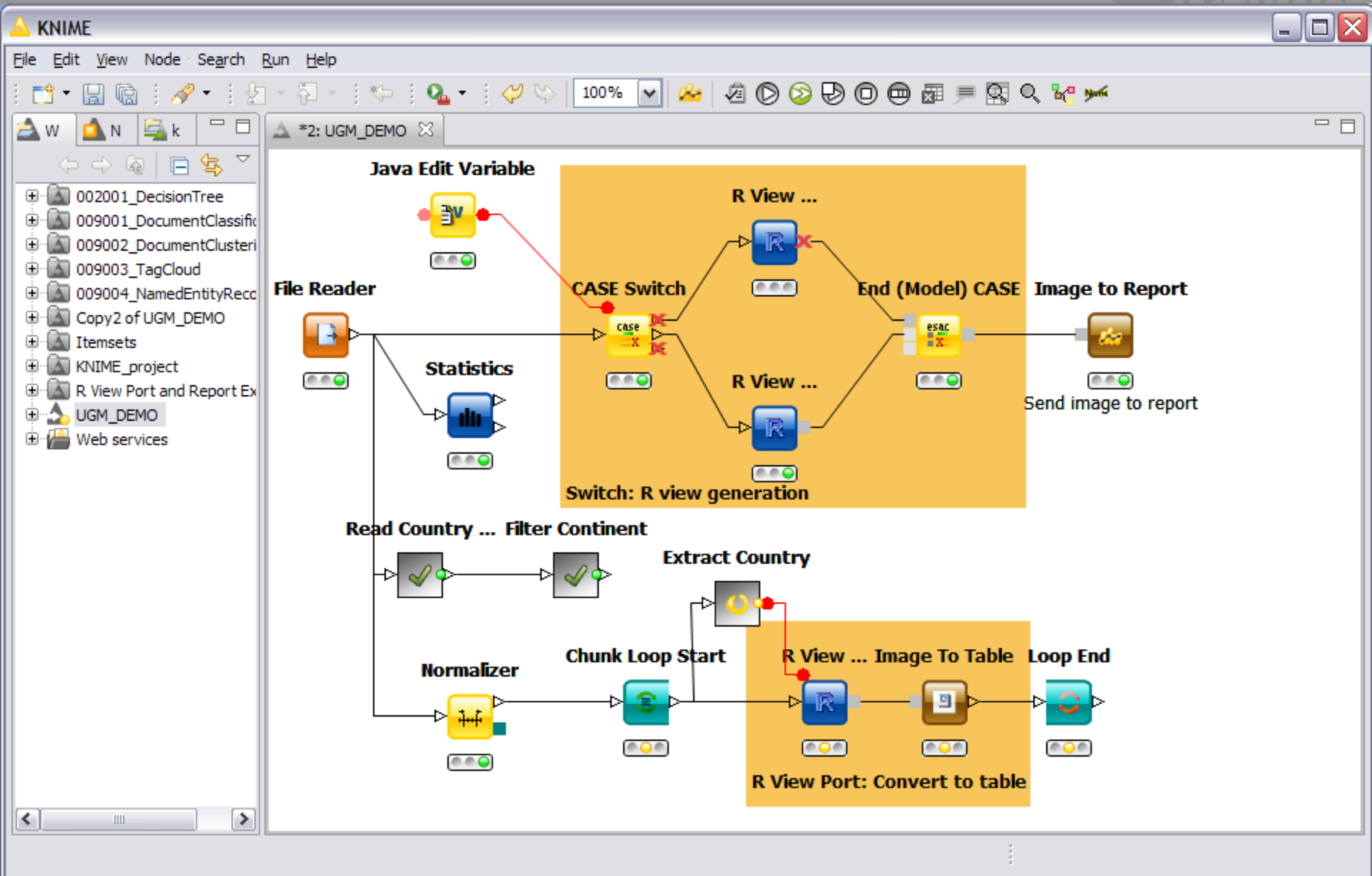


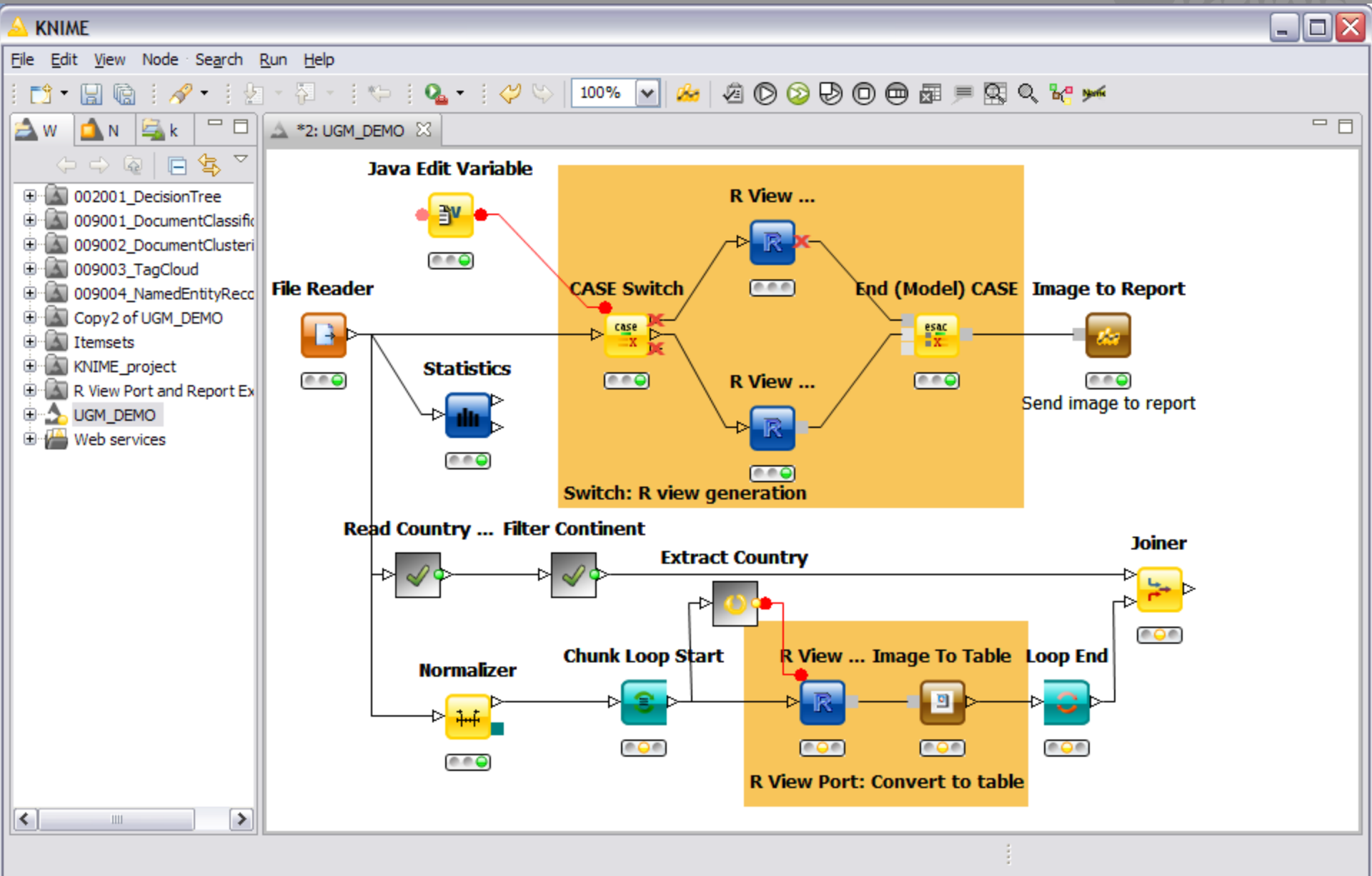


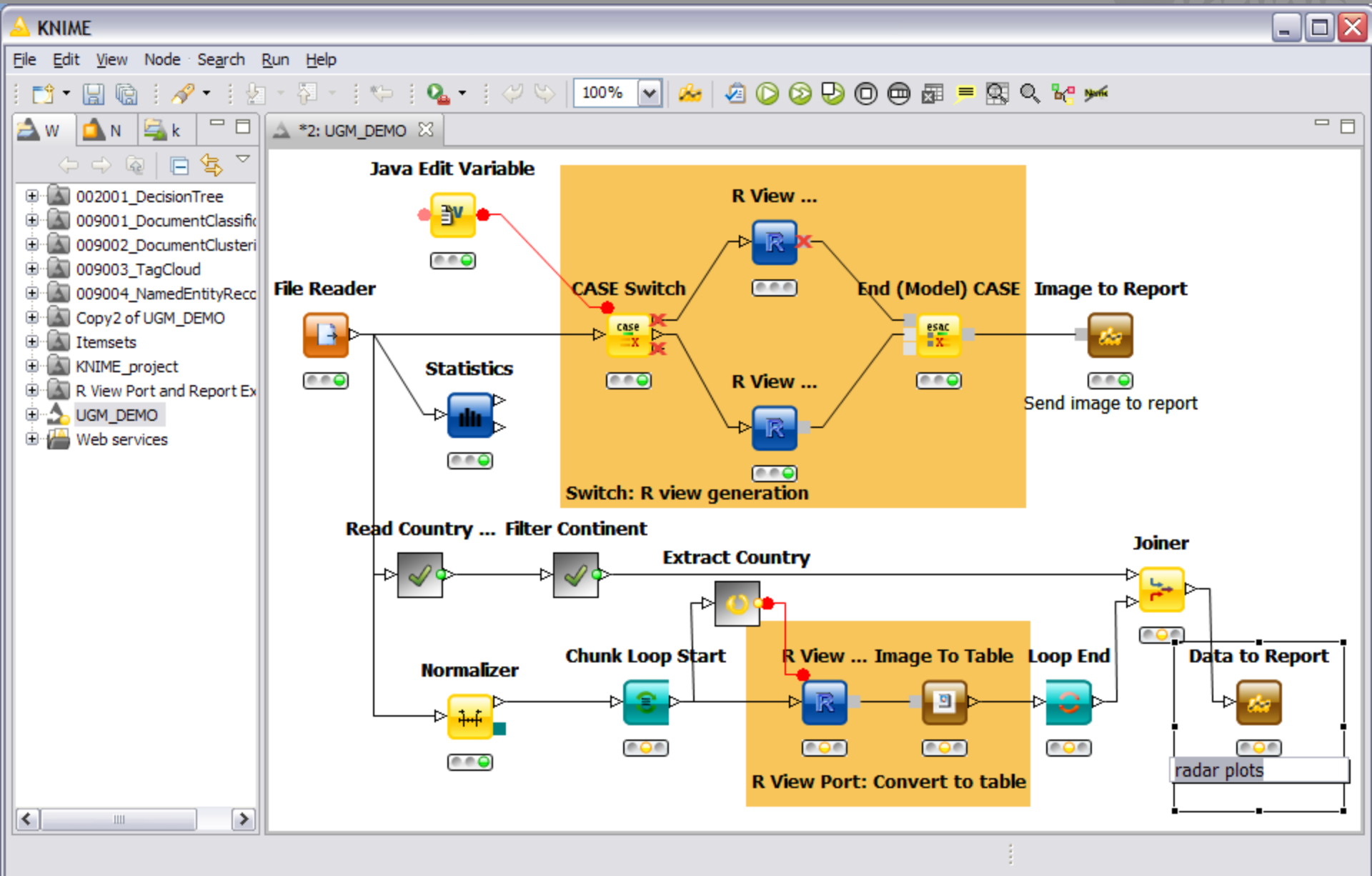


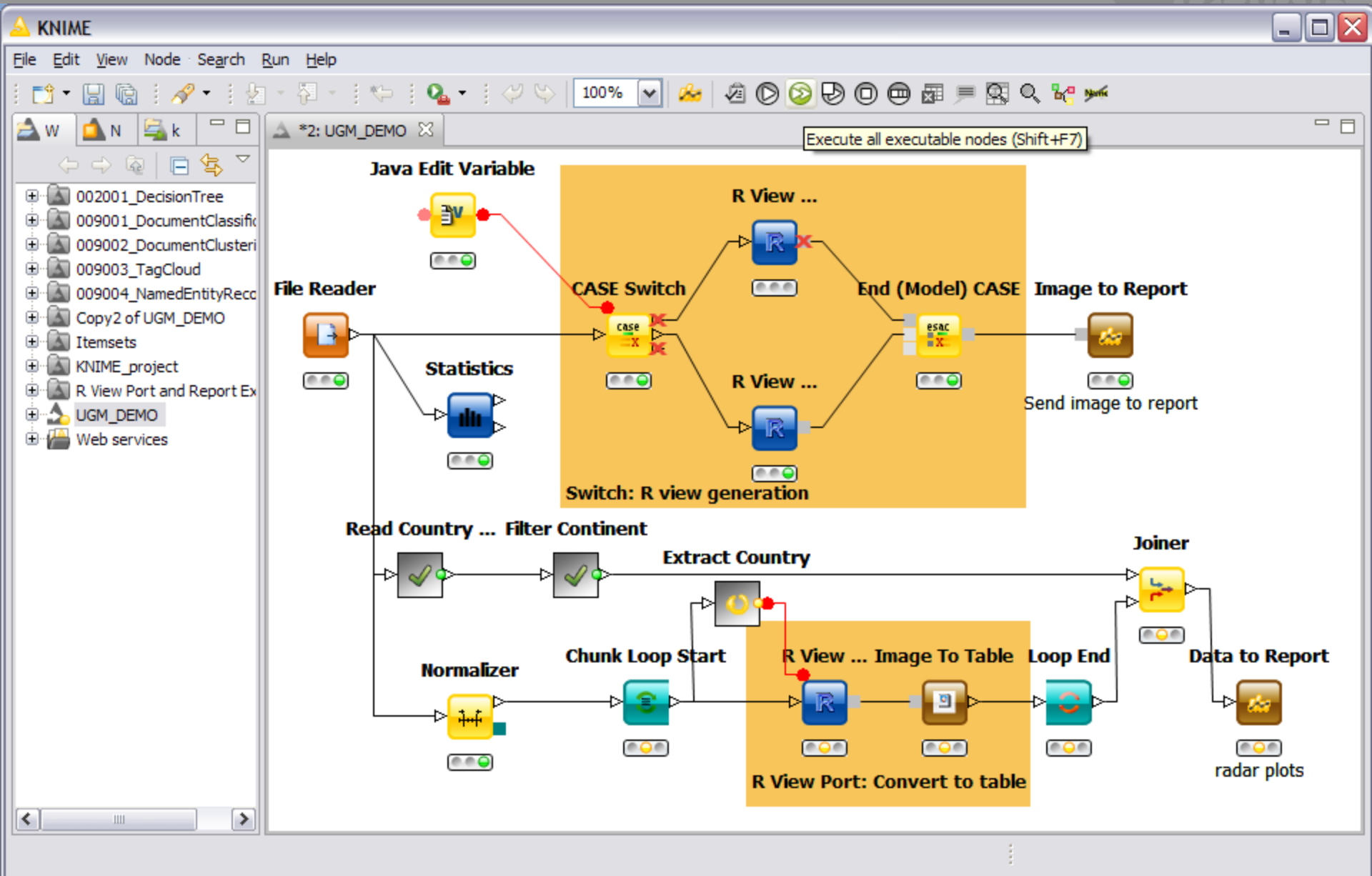


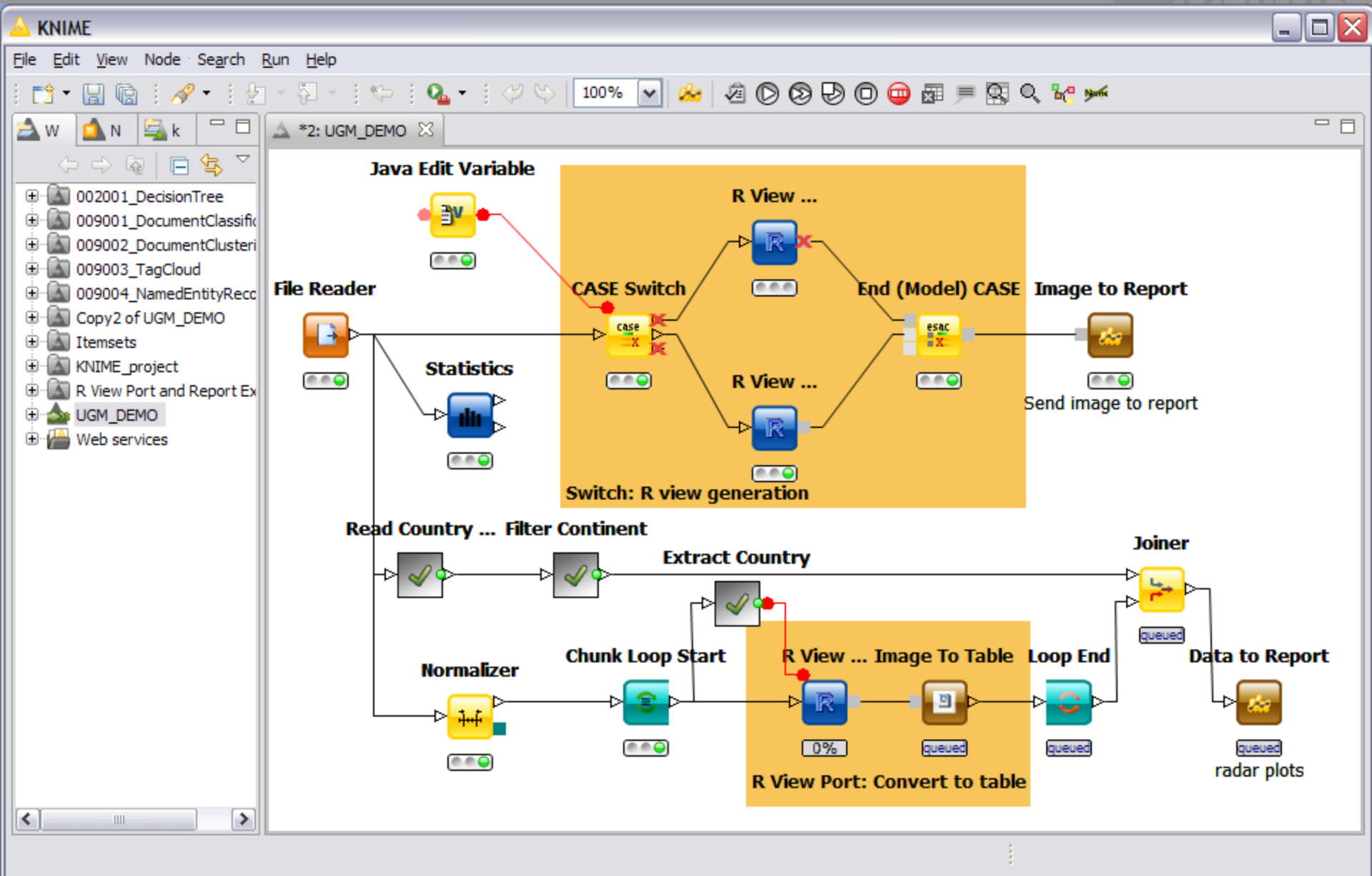


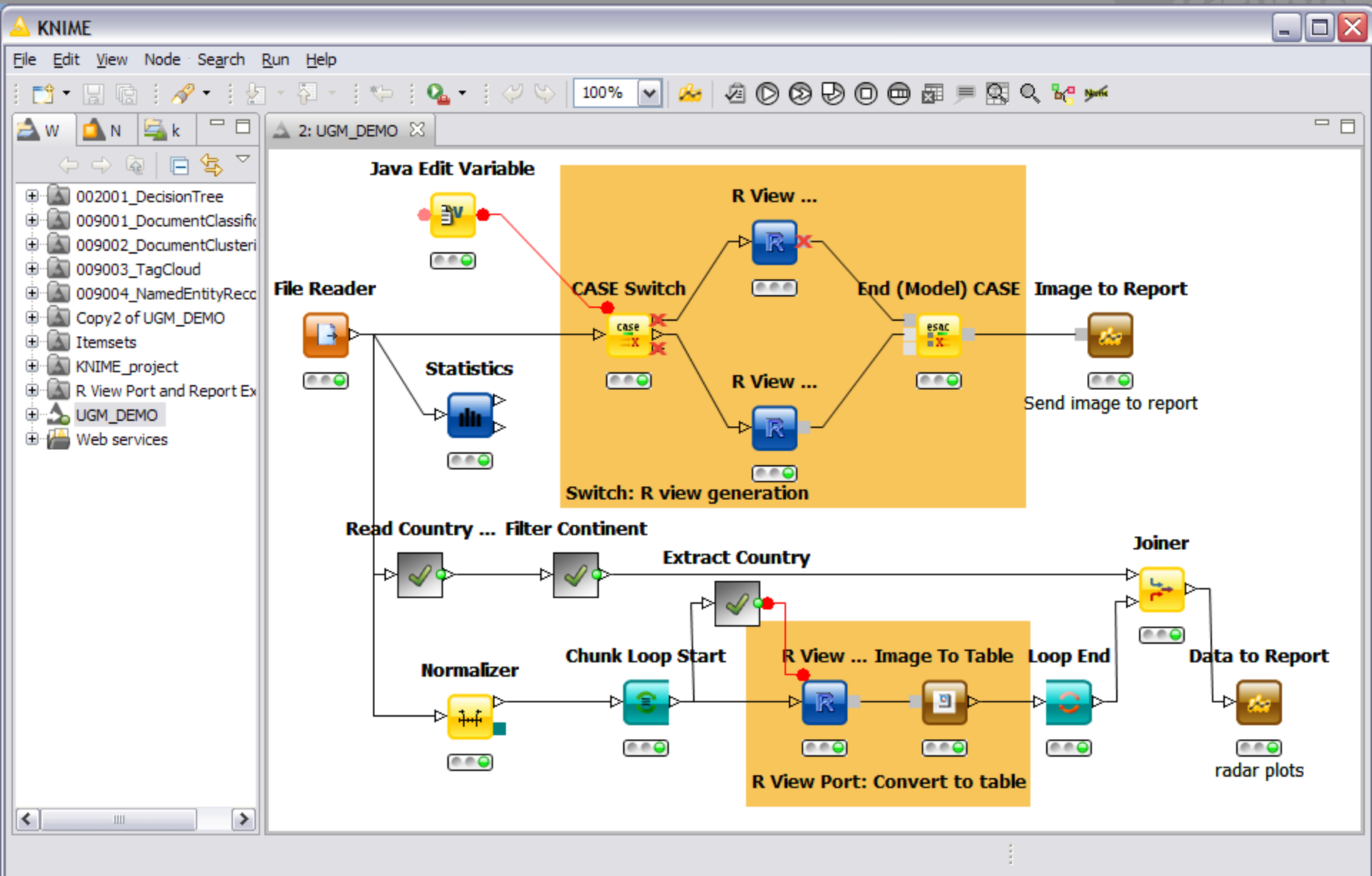












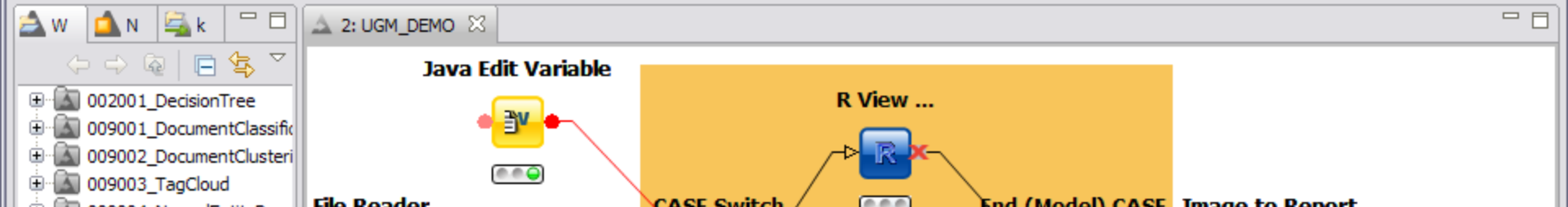


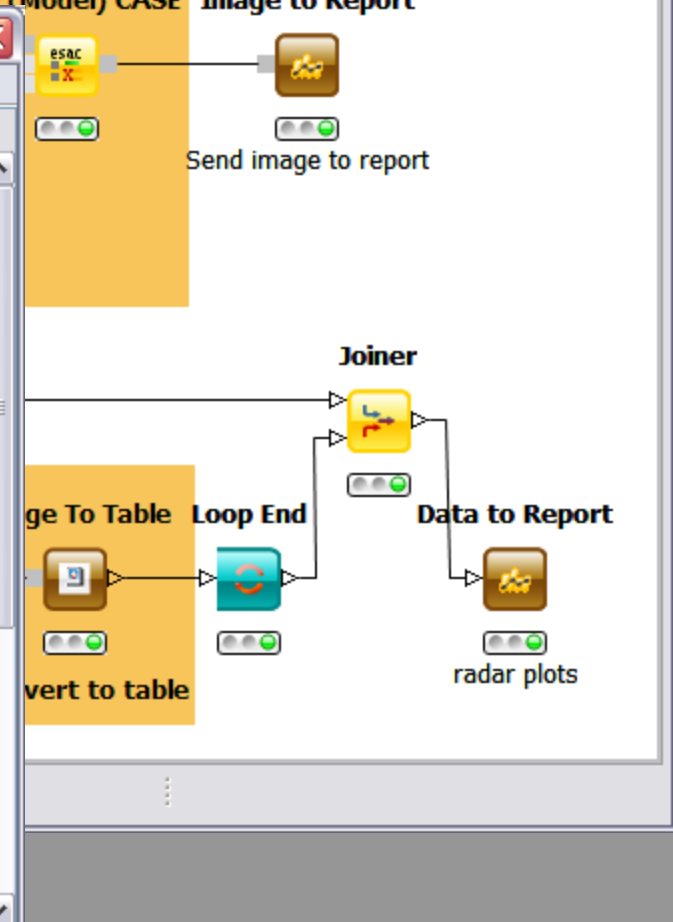
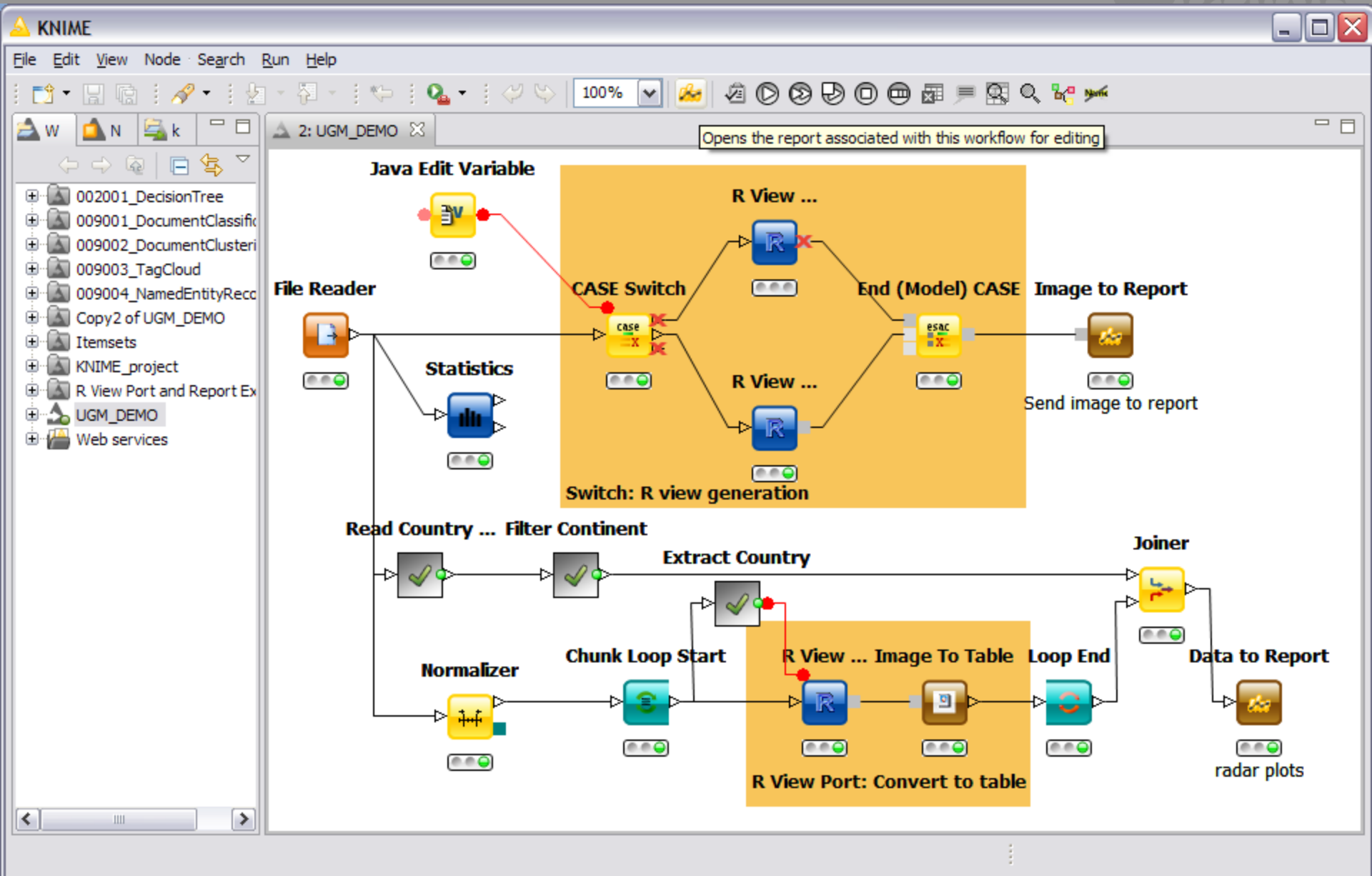


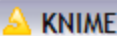
Table View - 0:15 - Data to Report (radar plots)

Row ID	Comple...	YellowC...	RedCards	OwnFouls	FLAG	Image
SCG	3	12	2	59		
GER	6	10	0	110		
FRA	6	13	0	101		
ESP	4	6	0	71		
CZE	3	7	2	53		
NED	4	16	2	85		
ITA	6	10	2	89		
CRO	3	11	2	59		
UKR	5	12	1	108		



How to add tables with Images to Reports...




KNIME

File Edit Insert Element Data Page View Search Run Help

Workflow Projects

- 002001_DecisionTree
- 009001_DocumentClassification
- 009002_DocumentClustering
- 009003_TagCloud
- 009004_NamedEntityRecognizer
- Copy of UGM_DEMO
- Itemsets

Data set view

- radar plots
- Send image to report
- continent

Palette

- Pointer Select
- Rectangle Select

Report Items

- Label

Property Editor - Image

Properties Binding Highlights

Page Break

Visibility

0: UGM_DEMO Report: UGM_DEMO


<H3>
Example Rep...

The second type ...


Label

Row ID	CompletedGames	YellowCards	RedCards	OwnFouls	FLAG	Ima
[Row ID]	[CompletedGames]	[YellowCards]	[RedCards]	[OwnFouls]		
Footer Row						

Layout Master Page Script XML Source Preview


KNIME

File Edit Page View Search Run Help


Workflow Projects

002001_DecisionTree

009001_DocumentClassification

009002_DocumentClustering

009003_TagCloud

009004_NamedEntityRecognizer

Copy2 of UGM_DEMO

Itemsets

radar plots

Send image to report

continent

Data set view

radar plots

Send image to report

continent







Palette

Property Editor - None


0: UGM_DEMO
Report: UGM_DEMO

Refresh Report


Note: Current maximum number of data rows is limited to 500. ([Click to change Preview Preferences](#))

FRA	6	13	0	101		<div>FRA</div> 
ESP	4	6	0	71		<div>ESP</div> 
CZE	3	7	2	53		<div>CZE</div> 

Layout Master Page Script XML Source Preview


KNIME

File Edit Page View Search Run Help


Workflow Projects

002001_DecisionTree

009001_DocumentClassification

009002_DocumentClustering

009003_TagCloud

009004_NamedEntityRecognizer

Copy2 of UGM_DEMO

Itemsets

radar plots

Send image to report

continent

Property Editor - None

View Report

Generate Document

External Tools

1 In Web Viewer

2 As DOC

3 As HTML

4 As PDF

5 As POSTSCRIPT

6 As PPT

7 As XLS



FRA

6

13

0

101



ESP

4

6

0

71



CZE

3

7

2

53

number of data rows is limited to 500. ([Click to change Preview Preferences](#))

Layout

Master Page

Script

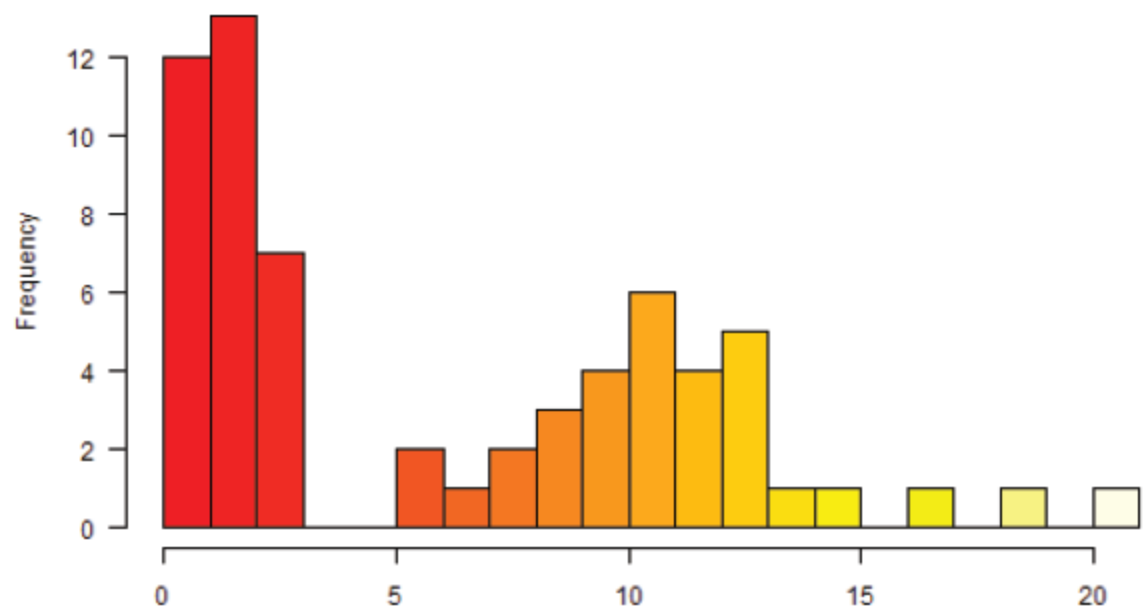
XML Source

Preview

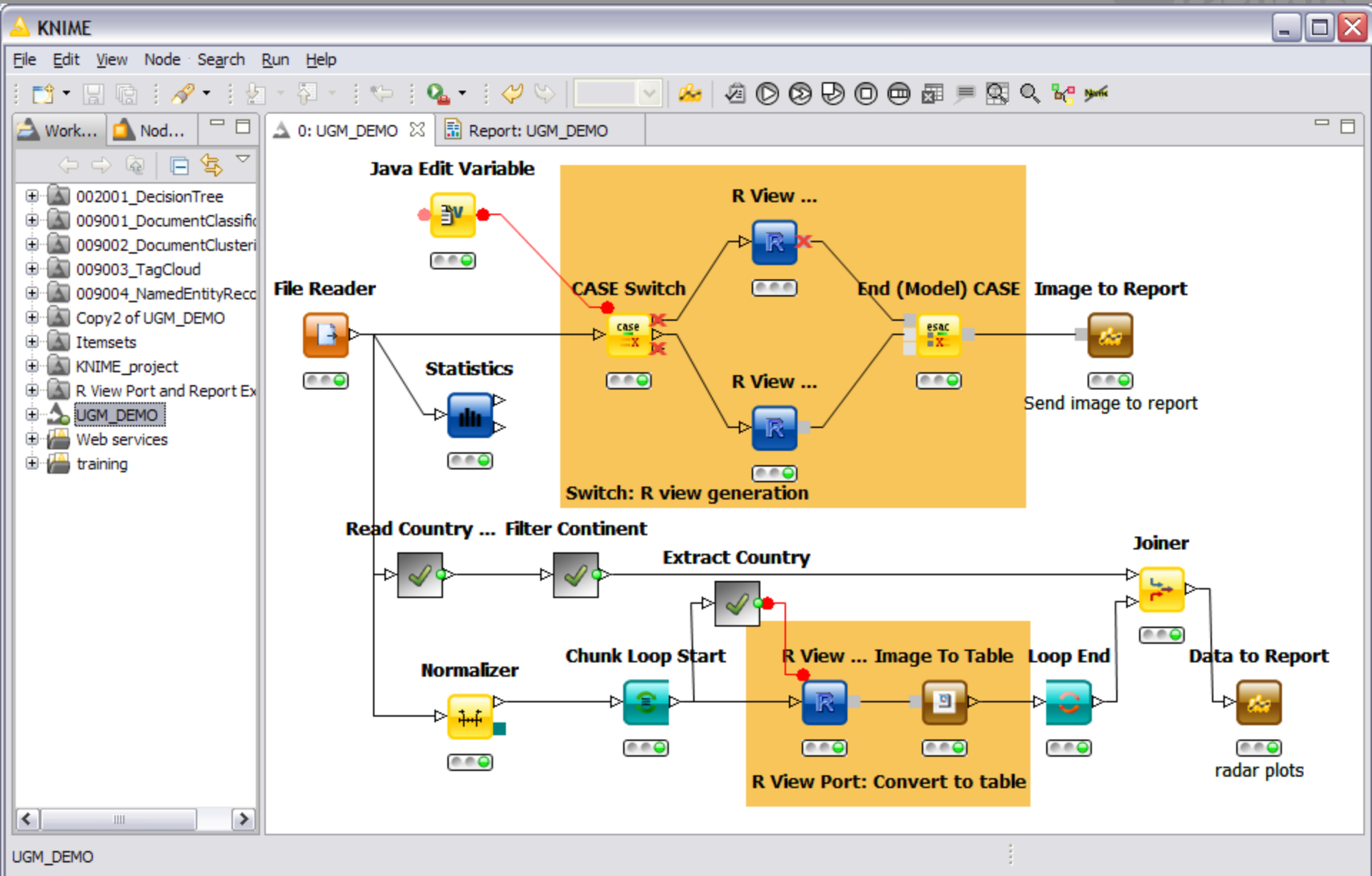
Example Report integrating R views.

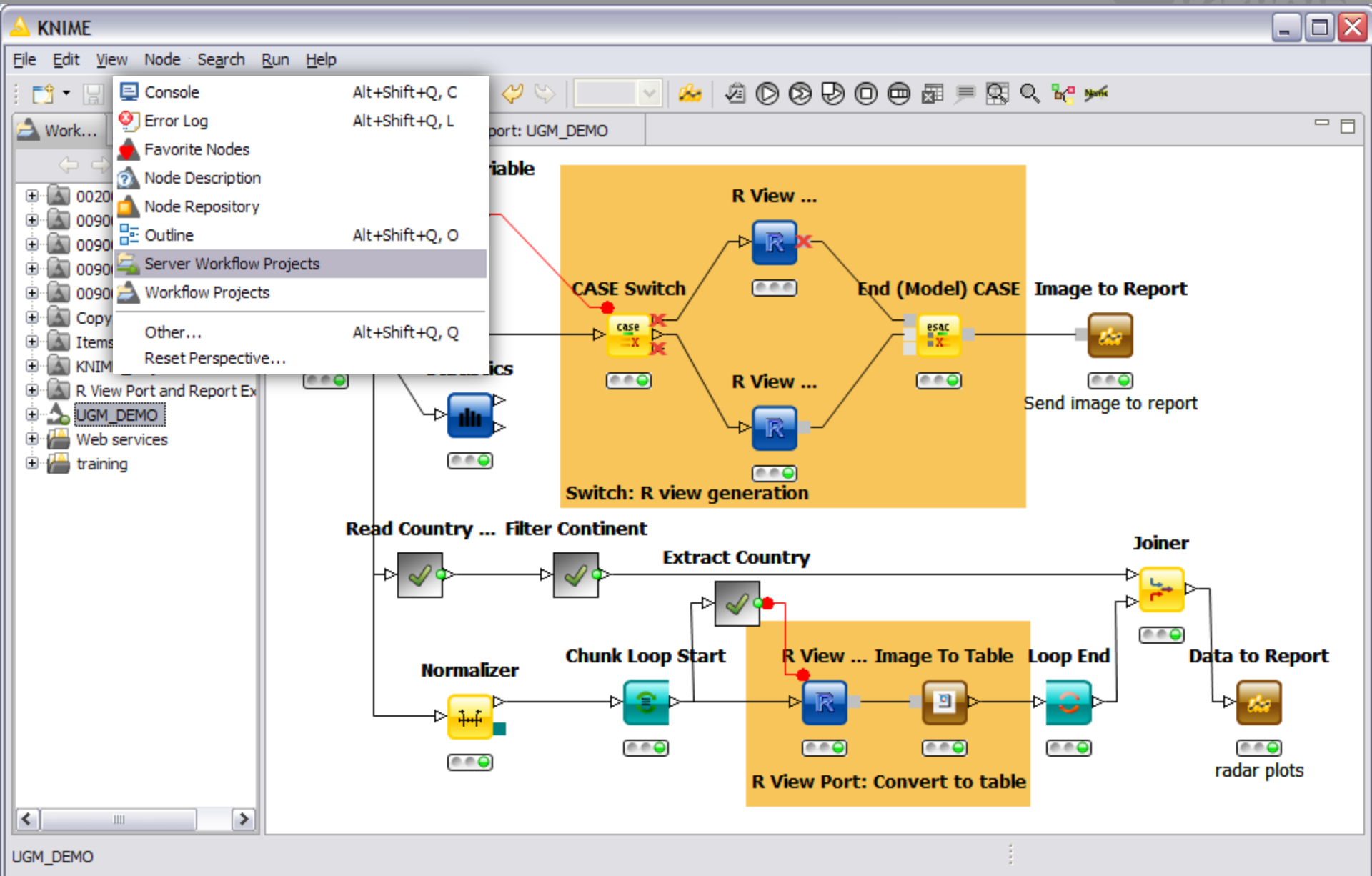
There are two different types of data sets in this report. The first one is a plain R visualization using the "Image to Report" node. It is used for single images:


Yellow&Red Cards




Sharing (reporting) Workflows






KNIME

File Edit View Node Search Run Help



Work... Nod...

0: UGM_DEMO

Java Edit V

File Reader

002001_DecisionTree
 009001_DocumentClassific
 009002_DocumentClusteri
 009003_TagCloud
 009004_NamedEntityReco
 Copy2 of UGM_DEMO
 Itemsets
 KNIME_project
 R View Port and Report Ex
 UGM_DEMO
 Web services
 training

Status

Read Country

Normal

R view Port: Convert to table

(Model) CASE

Image to Report

Send image to report

Joiner

Data to Report

radar plots

Loop End


Image To Table

Server Workflow Projects


Workflow Server: knime02

Status: not connected

Connect


KNIME





File Edit View Node Search Run Help









Work... Nod...

0: UGM_DEMO

002001_DecisionTree
 009001_DocumentClassific
 009002_DocumentClusteri
 009003_TagCloud
 009004_NamedEntityReco
 Copy2 of UGM_DEMO
 Itemsets
 KNIME_project
 R View Port and Report Ex
 UGM_DEMO
 Web services
 training

File Reader

Static

Read Country

Norma


(Model) CASE

 Send image to report


Joiner

Image To Table

Loop End

Data to Report

 radar plots

Server Workflow Projects

Workflow Server: knime02

Status:

Login to KNIME Server

Enter User and Password to login

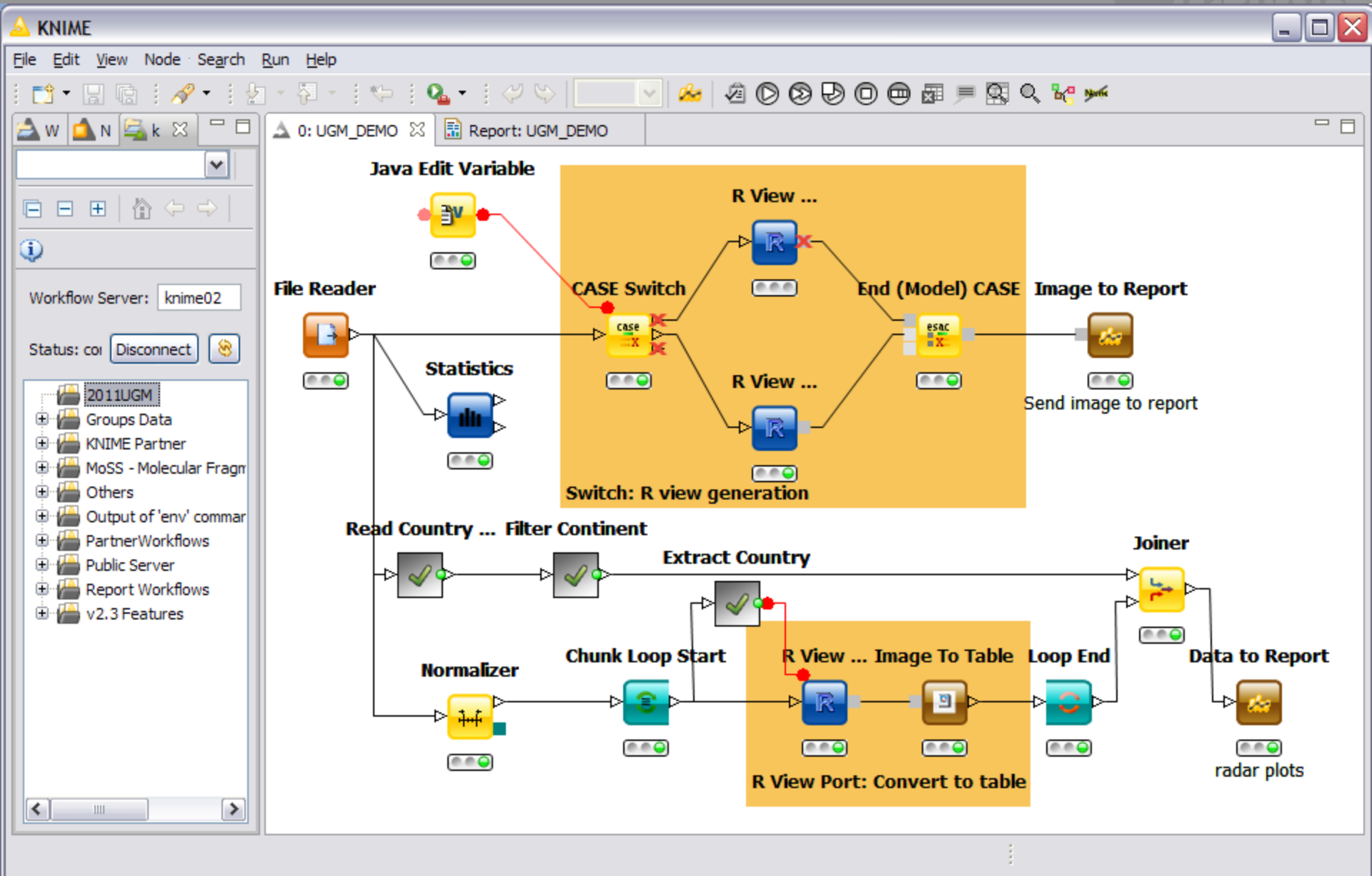
Credentials

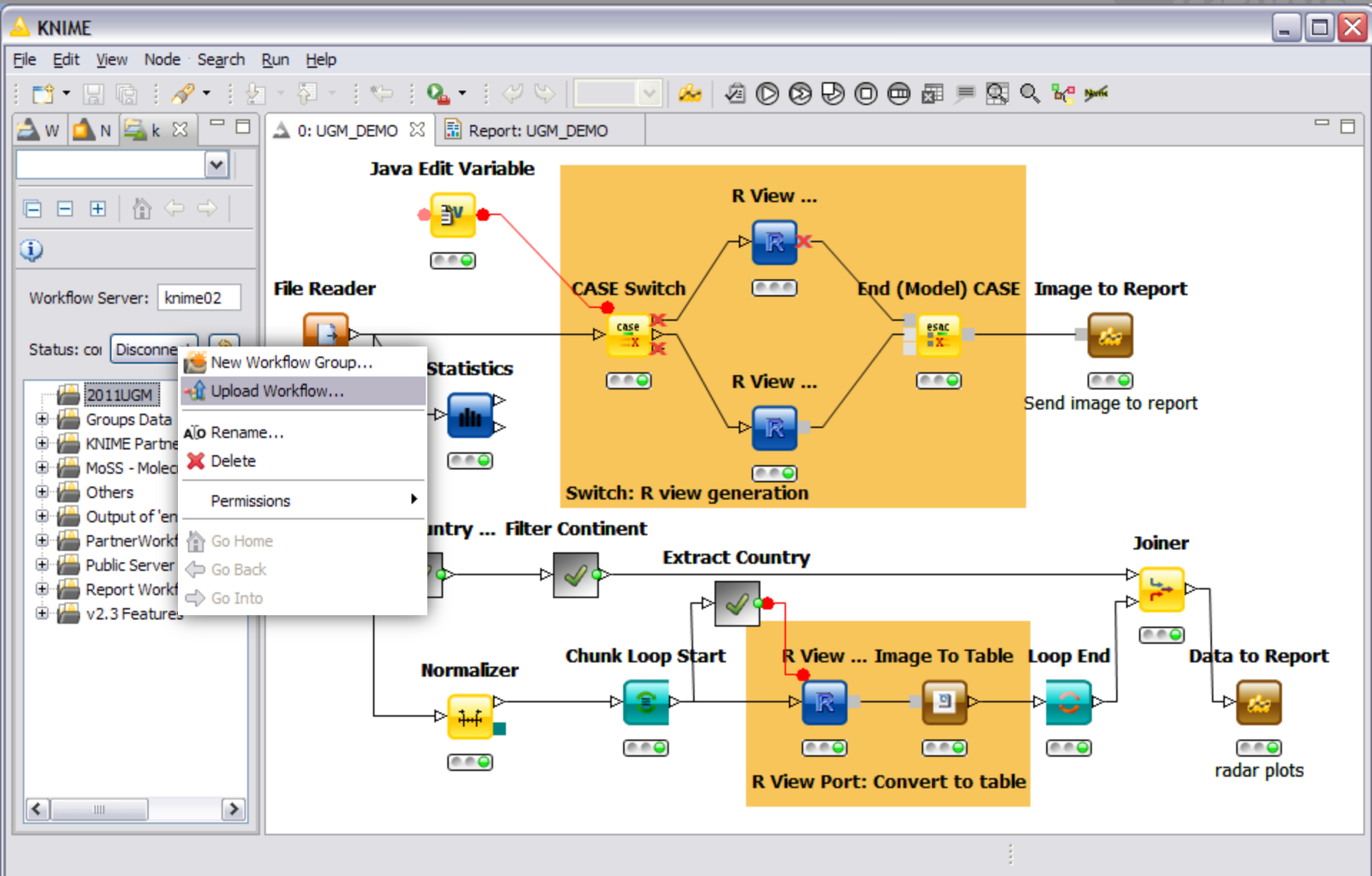
User: knime


Password:

OK Cancel

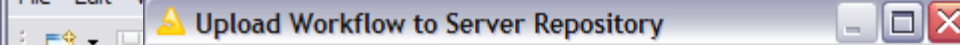
UGM_DEMO





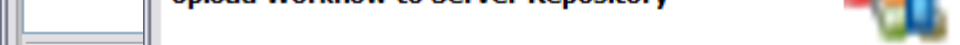


File Edit View



Workflow S

Status: co



Gr

KN

Mo

Ot

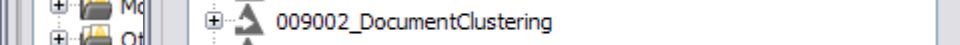
Ou

Pa

Pu

Re

v2



Gr

KN

Mo

Ot

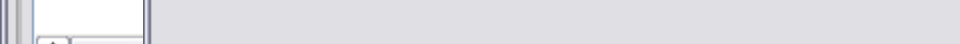
Ou

Pa

Pu

Re

v2




Gr

KN


Mo

Ot

Ou




File Edit View



Workflow S

Status: co



Gr

KN

Mo

Ot


Ou

Pa

Pu

Re

v2



Gr

KN

Mo

Ot


Ou

Pa

Pu

Re

v2



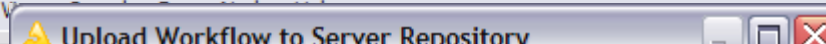
Gr

KN


Mo

Ot

Ou



Upload Workflow to Server Repository



Upload Workflow to Server Repository

Please select the workflow that is uploaded from the local repository:

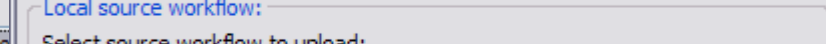
Remote destination:

Remote destination: /2011UGM

Permissions...

Local source workflow:

Select source workflow to upload:



002001_DecisionTree

009001_DocumentClassification

009002_DocumentClustering

009003_TagCloud

009004_NamedEntityRecognizer

Copy of UGM_DEMO

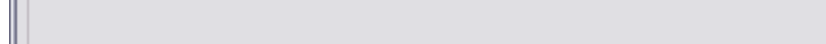
Itemsets

KNIME_project

R View Port and Report Example

UGM_DEMO

Web services



Gr

KN


Mo

Ot

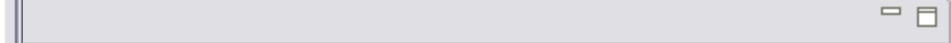
Ou

Pa

Pu




File Edit View



Workflow S

Status: co



Gr

KN

Mo

Ot


Ou

Pa

Pu

Re

v2



Gr

KN

Mo

Ot


Ou

Pa

Pu

Re

v2

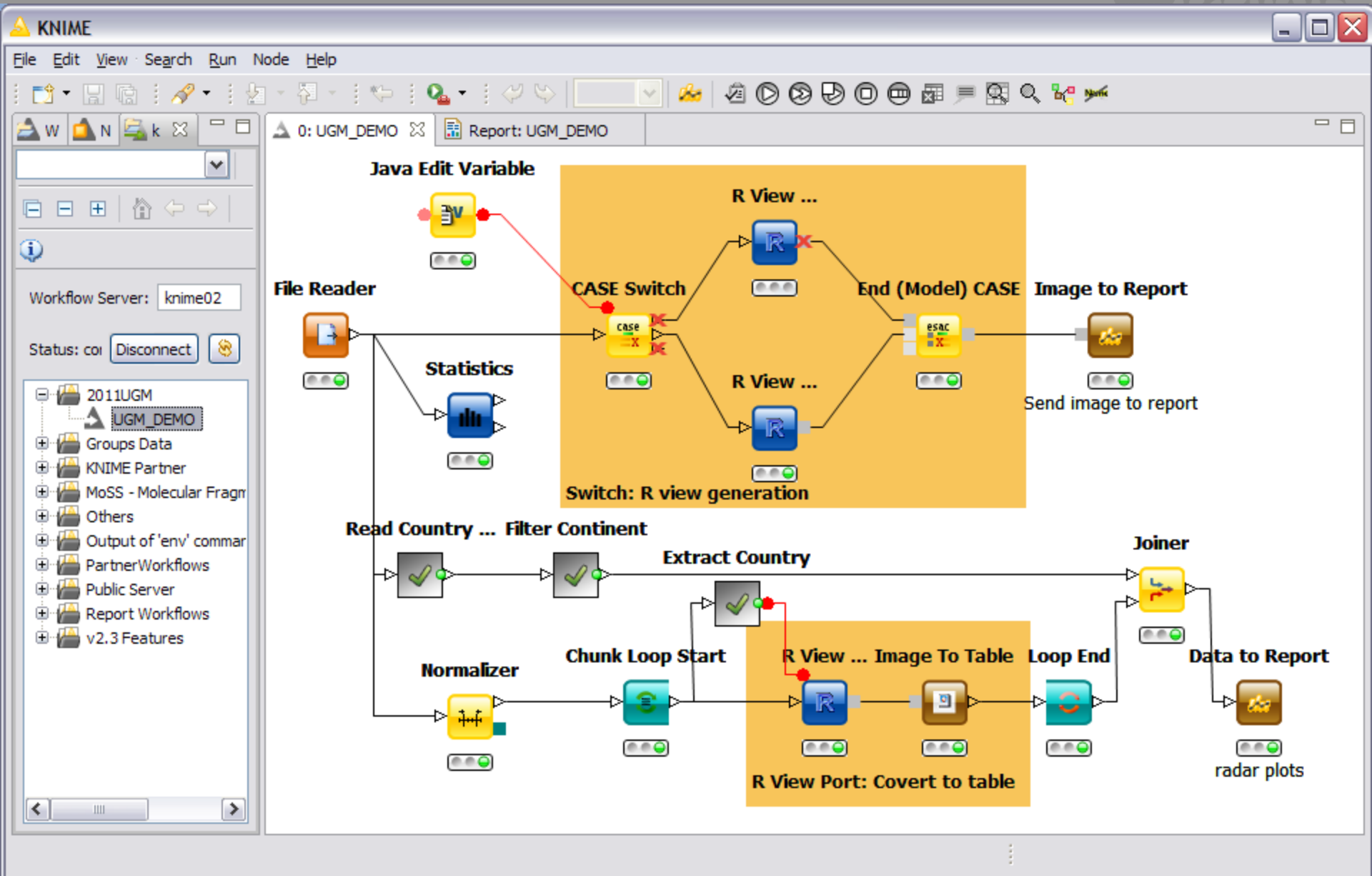


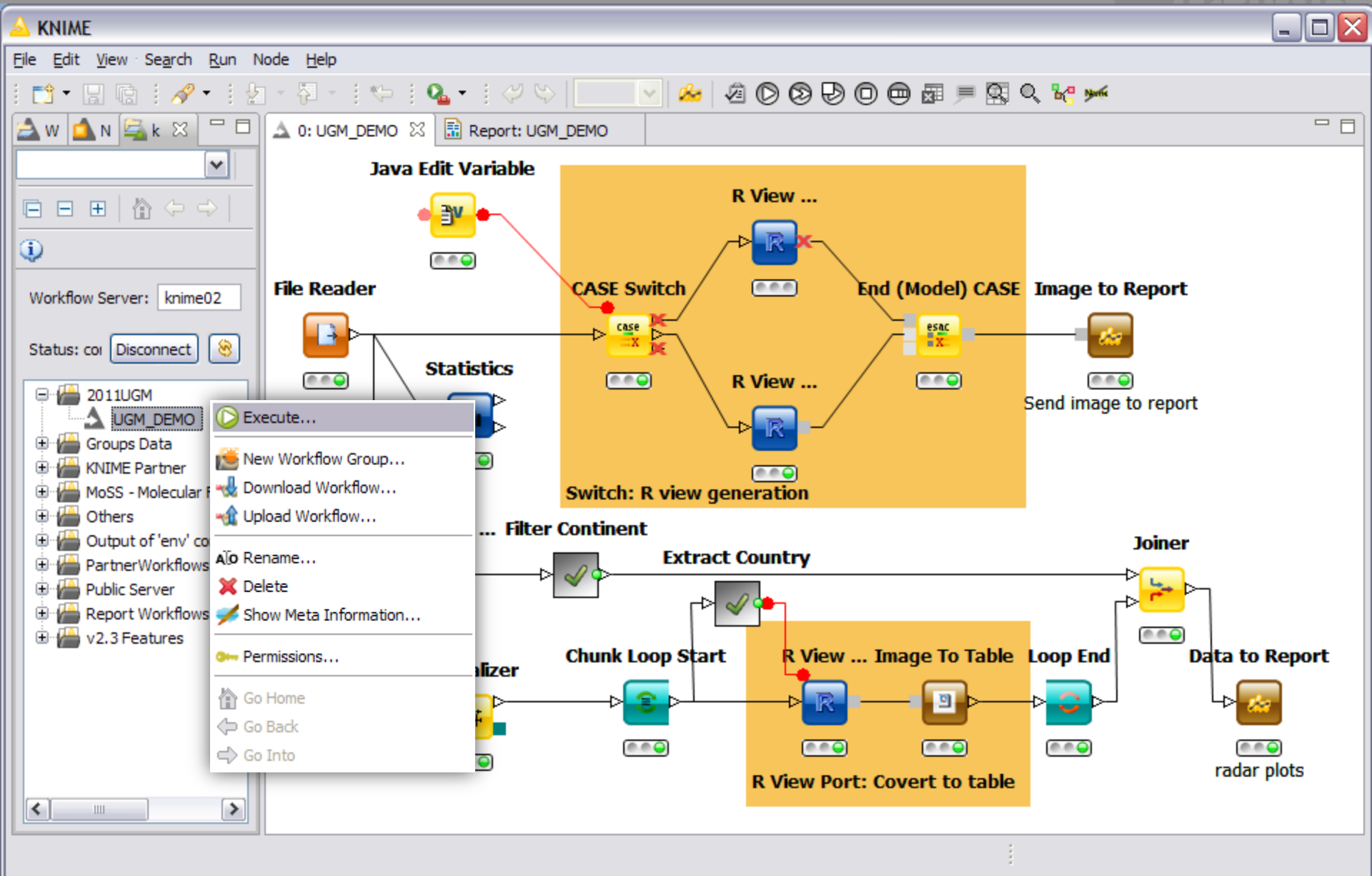
Gr

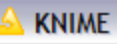
KN

Mo

Ot






KNIME

File Edit View Search Run Node Help

W N k x


Workflow Server: knime02

Status: con Disconnect

- 2011UGM
 - UGM_DEMO**
- Groups Data
- KNIME Partner
- MoSS - Molecular Fragm
- Others
- Output of 'env' commar
- PartnerWorkflows
- Public Server
- Report Workflows
- v2.3 Features

0: UGM_DEMO

Server Execution Options


Execute Workflow on Server

Options

- ☒ Reset before Execution
- ☐ Discard Workflow Job after Execution

Name of Workflow Job

UGM_DEMO

☒ Schedule execution

Scheduling options

Febuar 2011

Mo	Di	Mi	Do	Fr	Sa	So
31	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	1	2	3	4	5	6
7	8	9	10	11	12	13

Time 17:23

☐ Repeat every

day(s)

OK

Cancel

File Reader

Read Count

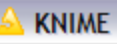
Joiner

Data to Report


Image to Report

Send image to report

radar plots


KNIME

File Edit View Search Run Node Help



W N k x

Workflow Server: knime02

Status: con Disconnect

2011UGM
 UGM_DEMO
 Groups Data
 KNIME Partner
 MoSS - Molecular Fragn
 Others
 Output of 'env' commar
 PartnerWorkflows
 Public Server
 Report Workflows
 v2.3 Features

0: UGM_DEMO

Server Execution Options

Execute Workflow on Server

Options

☒ Reset before Execution
☐ Discard Workflow Job after Execution

Workflow Variable Administration

Name	Type	Value
continent	STRING	Europe
Rview_Type	STRING	histogram

Edit

OK

21 22 23 24 25 26 27
 28 1 2 3 4 5 6
 7 8 9 10 11 12 13

☐ Repeat every day(s)

OK Cancel

File Reader

Java Edi

(model) CASE

Image to Report

Send image to report

Joiner

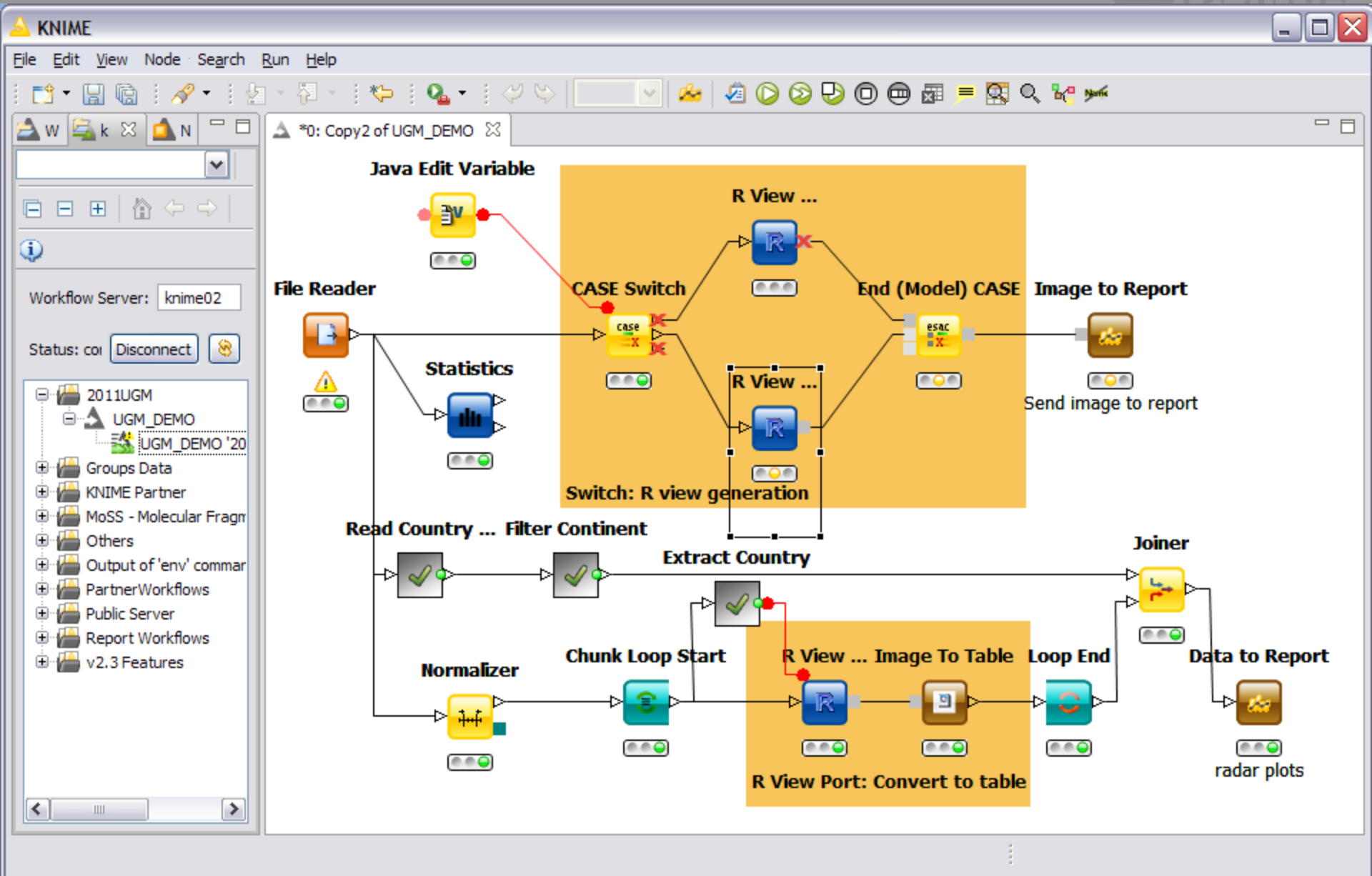
Data to Report

radar plots

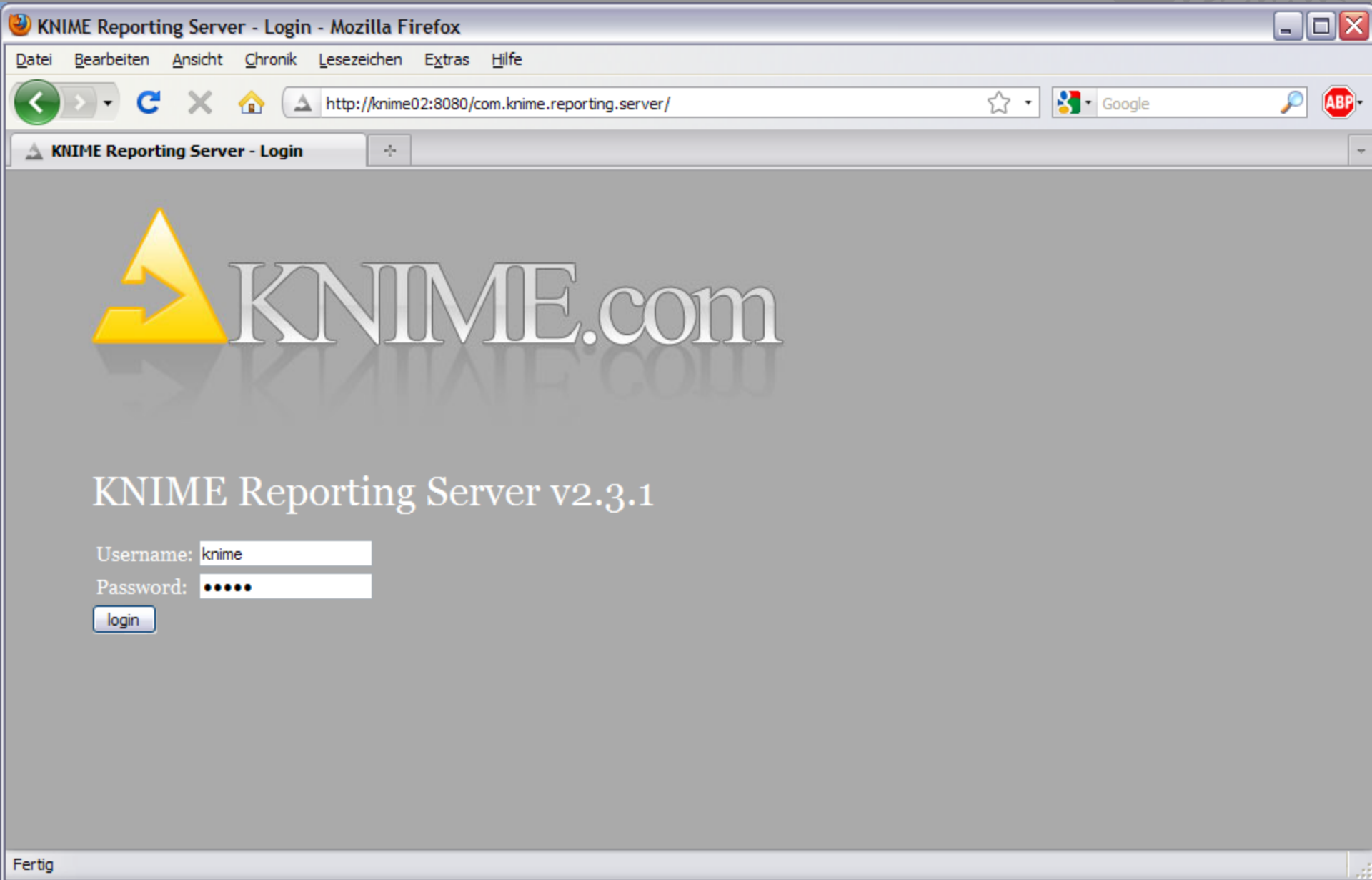
Loop End

To Table

t to table



How normal Users see it...



KNIME Reporting Server - Report Listing - Mozilla Firefox

Datei Bearbeiten Ansicht Chronik Lesezeichen Extras Hilfe

<http://knime02:8080/com.knime.reporting.server/listing.jsp> Google

KNIME Reporting Server - Report Lis...



KNIME Reporting Server

Available Reports:

-  2011UGM
 -  UGM_DEMO
-  MoSS - Molecular Fragment Miner (JChem File)
 -  MoSS - Miner
 - MoSS algorithm on Groups Data
-  Others
 -  Copy of Renderer Test
 -  Renderer Test

Fertig

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📄 http://knime02:8080/com.knime.reporting.server/frameset?__report=2011UGM%2FUGM_DEM

☆







🔍 Google

🛑 ABP

KNIME Reporting Server - Report Listing KNIME Report Viewer



KNIME Report Viewer



Showing page 1 of

Parameter

Parameters marked with * are required.

{}

 Please enter a value for the workflow variable "continent": *

Europe

{}

 Enter the type of R view: *

☒ Histogram

☐ Association Plot

OK

Cancel

Go to page:

➡

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Showing page 1 of

Processing, please wait ...

Cancel

Go to page: ➡

Fertig

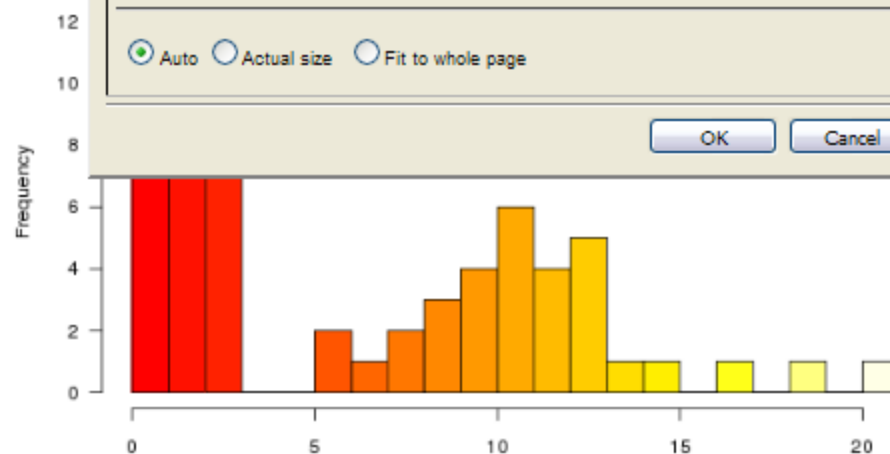


KNIME Report Viewer

Showing page 1 of 2

There are two different types of data sets in ti

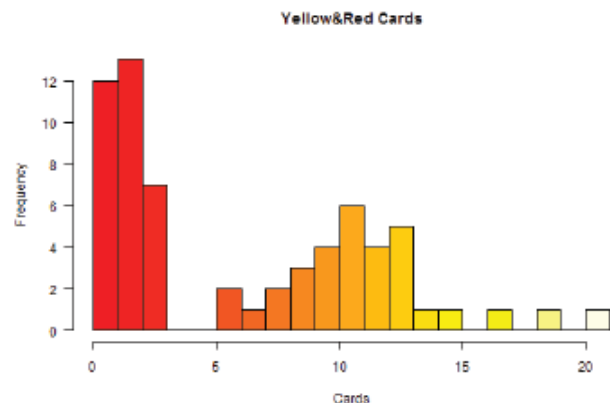
rt" node. It is used for single images:







Done

Example Report integrating R views.

There are two different types of data sets in this report. The first one is a plain R visualization using the "Image to Report" node. It is used for single images:



The second type of image input is using a plain table containing images. The spider plots below were generated using the `view` node in a workflow loop. In each iteration of the loop a single row was processed and a spider plot was generated:

	Games	Yellow	Red	Fouls	Country	Radarplot
SCG	3	12	2	59		
GER	6	10	0	110		

	Games	Yellow	Red	Fouls	Country	Radarplot
FRA	6	13	0	101		
ESP	4	6	0	71		
CZE	3	7	2	53		
NED	4	16	2	85		
ITA	6	10	2	89		
CRO	3	11	2	59		

Summary

- Plenty of new features in KNIME v2.3:
Annotations, Switches, Flow Variable
Ports, (R) Views in Reports, ...

Summary

Other new features (not mentioned today):

- Table Editor node
- many convenience nodes (mostly preprocessing)
- powerful decision tree view
- logistic regression
- hotkeys, ...

Thanks!

Join us during the coffee break
to see KNIME v2.3 live ...