



PREPARING THE DATASET

DATA PREPARATION

Prepare the Dataset

IBM Cognos Analytics with Watson

Retail Store Stock In ... Analytics

Search content

Properties

Data module

Search

Retail Store Story Analytics

Navigation paths

• mock_kaggle.csv

- # Row Id
- data
- venda
- estoque
- preco

Grid Relationships Custom tables

Row Id	data	venda	estoque	preco
1	2014-01-01	0	4972	1.29
2	2014-01-02	70	4902	1.29
3	2014-01-03	59	4843	1.29
4	2014-01-04	93	4750	1.29
5	2014-01-05	96	4654	1.29
6	2014-01-06	145	4509	1.29
7	2014-01-07	179	4329	1.29
8	2014-01-08	321	4104	1.29
9	2014-01-09	125	4459	1.09
10	2014-01-10	88	5043	1.09
11	2014-01-11	188	5239	1.09
12	2014-01-12	121	5118	1.09
13	2014-01-13	134	4964	1.09

DATA PREPARATION

Month Data :

The screenshot shows the 'Create calculation' dialog box in IBM Cognos Analytics. The dialog has a title bar with the text 'IBM Cognos Analytics with Watson' and a search bar. The main area is divided into two sections: 'Components' on the left and 'Expression' on the right. The 'Components' section contains a search bar and a list of data sources: 'mock_kaggle.csv', '# Row Id', 'data', 'venda', 'estoque', and 'preco'. The 'Expression' section contains a text area with the expression '1 Month (data_)'. Below the expression text area is a 'Validation Results' section with a green checkmark and the text 'The expression is valid.'. At the bottom of the dialog, there is a checkbox labeled 'Calculate after aggregation' which is currently unchecked. To the right of the checkbox are two buttons: 'Cancel' and 'OK'.

Create calculation

Name: M_data

Components

Search

- mock_kaggle.csv
 - # Row Id
 - data
 - venda
 - estoque
 - preco

Expression

1 Month (data_)

Validation Results

✓ The expression is valid.

☐ Calculate after aggregation

Cancel OK

DATA PREPARATION

Month Data :

IBM Cognos Analytics with Watson | Retail Store Stock In... Analytics | 10 | Search content | ? | ? | ? | Properties

Data module | + | ?

Search

Retail Store Story Analytics

Navigation paths

rock_kaggle.csv

- # M_data
- # Row Id
- data
- venda
- estoque
- preco

Grid | Relationships | Custom tables

T1	M_data	Row Id	data	venda	estoque	preco
1		1	2014-01-01	0	4972	1.29
1		2	2014-01-02	70	4902	1.29
1		3	2014-01-03	59	4843	1.29
1		4	2014-01-04	93	4750	1.29
1		5	2014-01-05	96	4654	1.29
1		6	2014-01-06	145	4509	1.29
1		7	2014-01-07	179	4329	1.29
1		8	2014-01-08	321	4104	1.29
1		9	2014-01-09	125	4459	1.09
1		10	2014-01-10	88	5043	1.09
1		11	2014-01-11	188	5239	1.09
1		12	2014-01-12	121	5118	1.09
1		13	2014-01-13	134	4984	1.09

DATA PREPARATION

Month Data :

IBM Cognos Analytics with Watson | * Retail Store Stock ... Analytics

Search content

Properties

Data module

Search

Retail Store Story Analytics

Navigation paths

mock_kaggle.csv

M_data

Row Id

data

venda

estoque

preco

Grid Relationships Custom tables

T1	M_data	Row Id	data	venda	estoque
1		1	2014-01-01	0	4972
1		2	2014-01-02	70	4902
1		3	2014-01-03	59	4843
1		4	2014-01-04	93	4750
1		5	2014-01-05	96	4654
1		6	2014-01-06	145	4509
1		7	2014-01-07	179	4329
1		8	2014-01-08	321	4104
1		9	2014-01-09	125	4459
1		10	2014-01-10	88	5043
1		11	2014-01-11	188	5239
1		12	2014-01-12	121	5118
1		13	2014-01-13	134	4984

Properties

General Navigation paths

Label M_data

Hide from users

Expression View or edit

Usage Attribute

Aggregate Count Distinct

Data type Integer

Represents

Time

Month

Description

DATA PREPARATION

Revenue Data :

IBM Cognos Analytics with Watson | * Retail Store Stock ... Analytics

Search control

Properties

Data module

Search

Retail Store Story Analytics

Navigation paths

mock_kaggle.csv

M_data

Revenue

Row Id

Year

Sales

Stock

Price

Grid Relationships Custom tables

M_data	Revenue	Row Id	Year	Sales
1	0	1	1/1/14	0
1	90.3	2	1/2/14	70
1	76.11	3	1/3/14	59
1	119.97	4	1/4/14	93
1	123.84	5	1/5/14	96
1	187.05	6	1/6/14	145
1	230.91	7	1/7/14	179
1	414.09000000000003	8	1/8/14	321
1	136.25	9	1/9/14	125
1	95.92	10	1/10/14	88
1	204.92000000000002	11	1/11/14	186
1	131.89000000000001	12	1/12/14	121
1	146.06	13	1/13/14	134

Properties

General

Label Revenue

Hide from users

Expression View or edit

Usage Measure

Calculate after aggregation

Aggregate Total

Data type Decimal

Represents

Default

Lookup reference None

Description

DATA PREPARATION

Year Data :

IBM Cognos Analytics with Watson

Retail Store Stock In Analytics

30

Search content

?

🔔

👤

🏠

🔍

🔄

↶

↷

📄

📁

Properties

Data module

Search

Retail Store Story Analytics

Navigation paths

mock_kaggle.csv

M_data

Row Id

Year

venda

estoque

preco

Grid

Relationships

Custom tables

M_data	Row Id	Year	venda	estoque
1	1	2014-01-01	0	4972
1	2	2014-01-02	70	4902
1	3	2014-01-03	59	4843
1	4	2014-01-04	93	4750
1	5	2014-01-05	96	4654
1	6	2014-01-06	145	4509
1	7	2014-01-07	179	4329
1	8	2014-01-08	321	4104
1	9	2014-01-09	125	4459
1	10	2014-01-10	68	5043
1	11	2014-01-11	188	5229
1	12	2014-01-12	121	5118
1	13	2014-01-13	134	4984

Properties

General

Navigation paths

Label

Year

Hide from users

Expression

View or edit

Usage

Attribute

Aggregate

Count Distinct

Data type

Date

Represents

Time

Year

Lookup reference

None

Description

DATA PREPARATION

Sales Data :

IBM Cognos Analytics with Watson | * Retail Store Stock ... Analytics | 30 | Search content | ? | ? | ?

Properties

Data module

Search

Retail Store Story Analytics

- Navigation paths
- mock_kaggle.csv
 - M_data
 - # Row Id
 - Year
 - Sales**
 - estoque
 - preco

Grid Relationships Custom tables

#	M_data	Row Id	Year	Sales	estoque
1	1	1	2014-01-01	0	4972
1	1	2	2014-01-02	70	4902
1	1	3	2014-01-03	59	4843
1	1	4	2014-01-04	93	4750
1	1	5	2014-01-05	96	4654
1	1	6	2014-01-06	145	4509
1	1	7	2014-01-07	175	4329
1	1	8	2014-01-08	321	4104
1	1	9	2014-01-09	125	4459
1	1	10	2014-01-10	88	5043
1	1	11	2014-01-11	188	5239
1	1	12	2014-01-12	121	5118
1	1	13	2014-01-13	134	4984

Properties

General

Label Sales

Hide from users ☐

Expression View or edit >

Usage Measure

Aggregate Total

Data type Integer

Represents

Default

Lookup reference None

Description

DATA PREPARATION

Stock Data :

IBM Cognos Analytics with Watson

* Retail Store Stock ... Analytics

Search content

Properties

Data module

Search

Retail Store Story Analytics

Navigation path

mock_kaggle.csv

M_data

Row Id

Year

Sales

Stock

preco

Grid Relationships Custom tables

Row Id	Year	Sales	Stock
1	2014-01-01	0	4972
2	2014-01-02	70	4902
3	2014-01-03	59	4843
4	2014-01-04	93	4750
5	2014-01-05	96	4654
6	2014-01-06	145	4509
7	2014-01-07	179	4329
8	2014-01-08	321	4104
9	2014-01-09	125	4459
10	2014-01-10	88	5043
11	2014-01-11	188	5239
12	2014-01-12	121	5118
13	2014-01-13	134	4984

Properties

General

Label Stock

Hide from users

Expression View or edit

Usage Measure

Aggregate Total

Data type Integer

Represents

Default

Lookup reference None

Description

DATA PREPARATION

Price Data :

The screenshot displays the IBM Cognos Analytics interface. The top navigation bar includes the title "IBM Cognos Analytics with Watson", a breadcrumb "Retail Store Stock In > Analytics", a search bar, and user icons. The left sidebar shows a "Data module" tree with "Retail Store Story Analytics" expanded, containing "Navigation paths", "mock_kaggle.csv", "M_data", "Flow Id", "Year", "Sales", "Stock", and "Price". The "Price" item is selected. The main area shows a table with columns "Year", "Sales", "Stock", and "Price". The "Price" column is highlighted. The right sidebar shows the "Properties" panel for the "Price" column, with settings for Label, Hide from users, Expression, Usage, Aggregate, Data type, Represents, Default, Lookup reference, and Description.

Year	Sales	Stock	Price
2014-01-01	0	4972	1.29
2014-01-02	70	4902	1.29
2014-01-03	59	4843	1.29
2014-01-04	93	4750	1.29
2014-01-05	96	4654	1.29
2014-01-06	145	4509	1.29
2014-01-07	179	4329	1.29
2014-01-08	321	4104	1.29
2014-01-09	125	4459	1.09
2014-01-10	88	5043	1.09
2014-01-11	188	5239	1.09
2014-01-12	121	5118	1.09
2014-01-13	134	4984	1.09

DATA PREPARATION

Month Format Data :

The screenshot displays the IBM Cognos Analytics interface with a 'Data format' dialog box open. The dialog box is titled 'Data format' and shows the column 'M_data' selected. The 'Format type' is set to 'Date'. The 'Date separator' is set to '/', the 'Date style' is set to 'Short', the 'Date ordering' is set to 'Default', and the 'Missing value characters' are set to '<empty>'. There are buttons for 'Advanced options' and 'Reset properties' at the bottom of the dialog. The background shows the 'Data module' pane on the left with 'M_data' selected, and the 'Properties' pane on the right showing the 'General' tab for the selected column.

Data format

Column: M_data

Format type: Date

① Date separator: /

② Date style: Short

③ Date ordering: Default

④ Missing value characters: <empty>

Advanced options

Reset properties

Cancel OK

Month Format Data :

IBM Cognos Analytics with Watson

* Retail Store Stock ... Analytics

60

Search content

Data module

Search

Retail Store Story Analytics

Navigation paths

mock_kaggle.csv

M_data

Row Id

Year

Sales

Stock

Price

Grid

Relationships

Custom tables

	M_data	Row Id	Year	Sales	Stock
1		1	1/1/14	0	4972
1		2	1/2/14	70	4902
1		3	1/3/14	59	4843
1		4	1/4/14	93	4750
1		5	1/5/14	96	4654
1		6	1/6/14	145	4509
1		7	1/7/14	179	4329
1		8	1/8/14	321	4104
1		9	1/9/14	125	4459
1		10	1/10/14	88	5043
1		11	1/11/14	188	5239
1		12	1/12/14	121	5138
1		13	1/13/14	134	4984

Properties

General

Navigation paths

Label

M_data

Hide from users

☐

Expression

View or edit

Usage

Attribute

Aggregate

Count Distinct

Data type

Integer

Represents

Time

Month

Description

DATA PREPARATION

Year Format Data :

The screenshot displays the IBM Cognos Analytics interface with a 'Data format' dialog box open. The dialog box is titled 'Data format' and shows the 'Column: Year' selected. The 'Format type' is set to 'Date'. Below this, there are four settings: 'Date separator' is set to '/', 'Date style' is set to 'Short' (highlighted with a blue border), 'Date ordering' is set to 'Default', and 'Missing value characters' is set to '<empty>'. At the bottom of the dialog box, there are buttons for 'Advanced options', 'Reset properties', 'Cancel', and 'OK'.

Data format

Column: Year

Format type: Date

① Date separator: /

① Date style: Short

① Date ordering: Default

① Missing value characters: <empty>

Advanced options

Reset properties

Cancel OK

DATA PREPARATION

Year Format Data :

IBM Cognos Analytics with Watson

* Retail Store Stock ... Analytics

20

Search content

?

🔔

👤

🏠

📄

🔍

↶

↷

🔄

📄

📄

📄

Data module

+

🔗

🔍 Search

Retail Store Story Analytics

Navigation paths

mock_naggle.csv

🕒 M_data

Row Id

🕒 Year

📊 Sales

📊 Stock

📊 Price

📄 Grid

🔗 Relationships

📄 Custom tables

11	M_data	Row Id	Year	Sales	Stock
1		1	1/1/14	0	4972
1		2	1/2/14	70	4902
1		3	1/3/14	59	4843
1		4	1/4/14	93	4750
1		5	1/5/14	96	4654
1		6	1/6/14	145	4509
1		7	1/7/14	179	4329
1		8	1/8/14	321	4104
1		9	1/9/14	125	4459
1		10	1/10/14	88	5043
1		11	1/11/14	188	5239
1		12	1/12/14	121	5118
1		13	1/13/14	134	4984

Properties

×

General

Navigation paths

Label

Year

Hide from users

🔴

Expression

View or edit >

Usage

Attribute

Aggregate

Count Distinct

Data type

Date

Represents

Time

Year

Lookup reference

None

Description

🔗

DATA PREPARATION

Sales Format Data :

The screenshot displays the IBM Cognos Analytics interface. On the left, the 'Data module' pane shows a tree structure with 'Retail Store Stock In Analytics' expanded, containing 'Navigation paths', 'mock_kaggle.csv', and a list of columns: 'H_data', 'Price', 'Year', 'Sales', 'Stock', and 'Price'. The 'Sales' column is selected. The main area shows the 'Data format' dialog box for the 'Sales' column. The 'Format type' is set to 'Number'. The 'Number of decimal places' is 0. The 'Negative sign symbol' is 'Default'. The 'Use thousands separator' is 'No'. The 'Negative sign position' is 'Default'. The 'Missing value characters' are 'empty'. At the bottom of the dialog are 'Advanced options', 'Reset properties', 'Cancel', and 'OK' buttons.

Data format

Column: Sales

Format type: Number

Number of decimal places: 0

Negative sign symbol: Default

Use thousands separator: No

Negative sign position: Default

Missing value characters: empty

Advanced options

Reset properties

Cancel OK

DATA PREPARATION

Sales Format Data :

IBM Cognos Analytics with Watson

Retail Store Stock ... Analytics

Search content

Properties

Data module

Search

Retail Store Story Analytics

Navigation paths

mock_kaggle.csv

M_data

Row Id

Year

Sales

Stock

Price

Grid

Relationships

Custom tables

T1	M_data	Row Id	Year	Sales	Stock
1		1	1/1/14	0	4972
1		2	1/2/14	70	4902
1		3	1/3/14	59	4843
1		4	1/4/14	93	4750
1		5	1/5/14	96	4654
1		6	1/6/14	145	4509
1		7	1/7/14	179	4329
1		8	1/8/14	321	4104
1		9	1/9/14	125	4459
1		10	1/10/14	88	5043
1		11	1/11/14	188	5239
1		12	1/12/14	121	5118
1		13	1/13/14	134	4984

Properties

General

LabelSales

Hide from users

ExpressionView or edit

UsageMeasure

AggregateTotal

Data typeInteger

Represents

Default

Lookup referenceNone

Description

DATA PREPARATION

Stock Format Data :

The screenshot displays the IBM Cognos Analytics interface with a 'Data format' dialog box open. The dialog is titled 'Data format' and shows the 'Column: Stock' selected. The 'Format type' is set to 'Number'. Below this, several formatting options are listed with their current values:

- Number of decimal places: 0
- Negative sign symbol: Default
- Use thousands separator: No (highlighted)
- Negative sign position: Default
- Missing value characters: empty

At the bottom of the dialog, there are buttons for 'Advanced options' and 'Reset properties'. The background shows the 'Data module' pane on the left with a tree view containing 'Retail Store Stock In ... Analytics', 'Navigation paths', 'mick_haggle.cov', 'M_data', 'How to', 'Year', 'Sales', 'Stock' (selected), and 'Price'. On the right, a 'Properties' pane is visible with a 'General' tab and a 'Stock' property set to 'Integer'.

DATA PREPARATION

Stock Format Data :

IBM Cognos Analytics with Watson

Retail Store Stock ... Analytics

Search content

Properties

Data module

Search

Retail Store Story Analytics

Navigation paths

mock_kaggle.csv

M_data

Row Id

Year

Sales

Stock

Price

Grid Relationships Custom tables

Row Id	Year	Sales	Stock
1	1/1/14	0	4972
2	1/2/14	70	4902
3	1/3/14	59	4843
4	1/4/14	93	4750
5	1/5/14	96	4654
6	1/6/14	145	4509
7	1/7/14	179	4329
8	1/8/14	321	4104
9	1/9/14	125	4459
10	1/10/14	88	5043
11	1/11/14	188	5239
12	1/12/14	121	5118
13	1/13/14	134	4984

Properties

General

Label Stock

Hide from users

Expression View or edit

Usage Measure

Aggregate Total

Data type Integer

Represents

Default

Lookup reference None

Description

DATA PREPARATION

Price Format Data :

The screenshot displays the IBM Cognos Analytics interface with a 'Data format' dialog box open. The dialog box is titled 'Data format' and shows the 'Column: Price' selected. The 'Format type' is set to 'Number'. Below this, several formatting options are listed with their current values:

Property	Value
Number of decimal places	2
Negative sign symbol	Default
Use thousands separator	Default
Negative sign position	Default
Missing value characters	<empty>

At the bottom of the dialog box, there are two buttons: 'Advanced options' and 'Reset properties'. The background shows the 'Data module' pane on the left with a tree view containing 'Retail Store Stock ... Analytics', 'Navigation paths', 'mock_kaggleuser', 'M_data', 'Year', 'Sales', 'Stock', and 'Price'. The 'Price' item is selected. On the right, a 'Properties' pane is visible, showing the 'General' tab with various settings for the selected 'Price' column, including 'Measure' set to 'Total' and 'Data type' set to 'Decimal'.

DATA PREPARATION

Price Format Data :

IBM Cognos Analytics with Watson

* Retail Store Stock ... Analytics

30

Search content

?

Properties

Data module

+

?

Search

Retail Store Story Analytics

Navigation paths

mock_kaggle.csv

M_data

flow lit

Year

Sales

Stock

Price

Grid

Relationships

Custom tables

	Year	Sales	Stock	Price
1/1/14	0	4972	1.29	
1/2/14	70	4902	1.29	
1/3/14	59	4843	1.29	
1/4/14	93	4750	1.29	
1/5/14	96	4654	1.29	
1/6/14	145	4509	1.29	
1/7/14	179	4329	1.29	
1/8/14	321	4104	1.29	
1/9/14	125	4459	1.09	
1/10/14	88	5043	1.09	
1/11/14	188	5239	1.09	
1/12/14	121	5118	1.09	
1/13/14	134	4984	1.09	

Properties

General

LabelPrice

Hide from users

ExpressionView or edit

UsageMeasure

AggregateTotal

Data typeDecimal

Represents

Default

Lookup referenceNone

Description

DATA PREPARATION

Revenue Format Data :

The screenshot displays the IBM Cognos Analytics interface with a 'Data format' dialog box open. The dialog is titled 'Data format' and shows the 'Column: Revenue' selected. The 'Format type' is set to 'Number'. The following options are visible:

- Number of decimal places: 0
- Negative sign symbol: Default
- Use thousands separator: No
- Negative sign position: Default
- Missing value characters: <empty>

At the bottom of the dialog, there are buttons for 'Advanced options', 'Reset properties', 'Cancel', and 'OK'.

The background shows the 'Data module' pane on the left with a tree view containing 'Retail Store Story Analytics', 'Navigation paths', 'mock_haggle.csv', 'M_data', 'Revenue', 'Stock', 'Year', 'Sales', 'Price', and 'Price'. The right pane shows the 'Properties' section for the 'Revenue' column, with the 'Measure' set to 'Total' and the 'Data type' set to 'Decimal'.

DATA PREPARATION

Revenue Format Data :

IBM Cognos Analytics with Watson

* Retail Store Stock ... Analytics

Search content

Properties

Data module

Search

Retail Store Story Analytics

- Navigation paths
- mock_kaggfa.csv
 - M_data
 - Revenue**
 - # Row Id
 - Year
 - Sales
 - Stock
 - Price

Grid Relationships Custom tables

M_data	Revenue	Row Id	Year	Sales
1	0	1	1/1/14	0
1	90	2	1/2/14	70
1	76	3	1/3/14	59
1	120	4	1/4/14	93
1	124	5	1/5/14	96
1	187	6	1/6/14	145
1	231	7	1/7/14	179
1	414	8	1/8/14	321
1	136	9	1/9/14	125
1	96	10	1/10/14	88
1	205	11	1/11/14	188
1	132	12	1/12/14	121
1	146	13	1/13/14	134

Properties

General

Label Revenue

Hide from users ☐

Expression View or edit >

Usage Measure

Calculate after aggregation ☐

Aggregate Total

Data type Decimal

Represents

Default

Lookup reference None

Description