

Project Development Phase

Delivery of Sprint - 1

| | |
|--------------|--|
| Date | 29 October 2022 |
| Team ID | PNT2022TMID00800 |
| Project Name | Retail Store Stock Inventory Analytics |

Project Development Phase:

Sprint 1:

- Data Collection
- Data Filtration

Sprint 2:

- Data Visualization

Sprint 3:

- Dashboard Creation

Sprint 4:

- Report Creation
- Story Creation

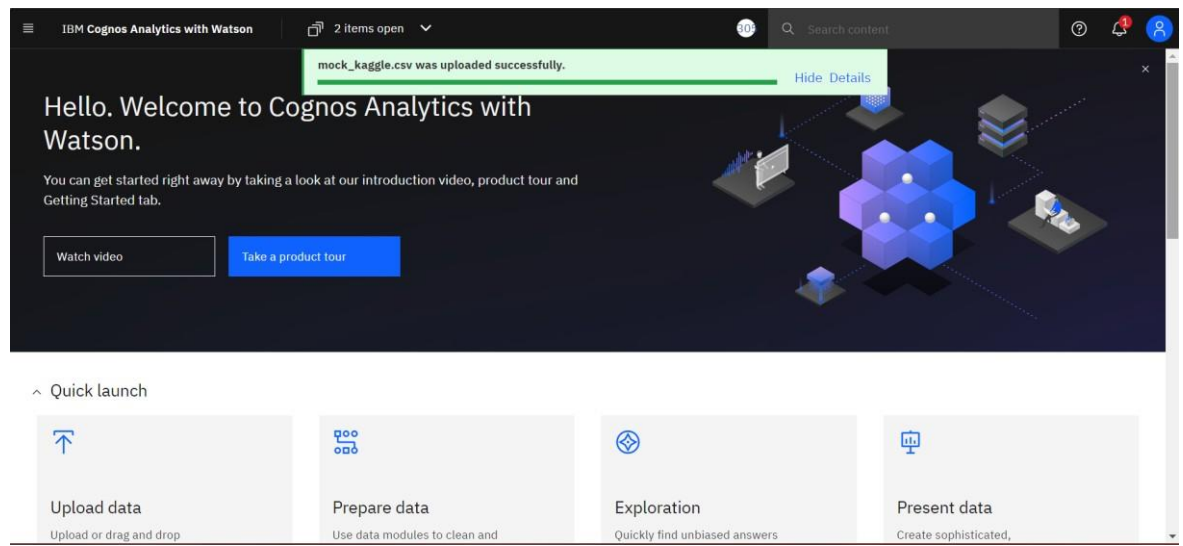
Sprint -1:

Data Collection:

Downloading the Dataset:

<https://drive.google.com/drive/folders/1kiL-5CHJmQvbk9VyFsuUs-myAupBZGNy>

Loading the Dataset using IBM COGNOS ANALYTICS:



Data Filtration:

Filtering the dataset and preparing by using data modules to clean and connect data from multiple modules.

IBM Cognos Analytics with Watson

New data module

Search content

Properties

Data module

Search

New data module

Navigation paths

mock_kaggle.csv

Month_Data

Revenue

Row Id

Year

sales

Stock

Price

Grid

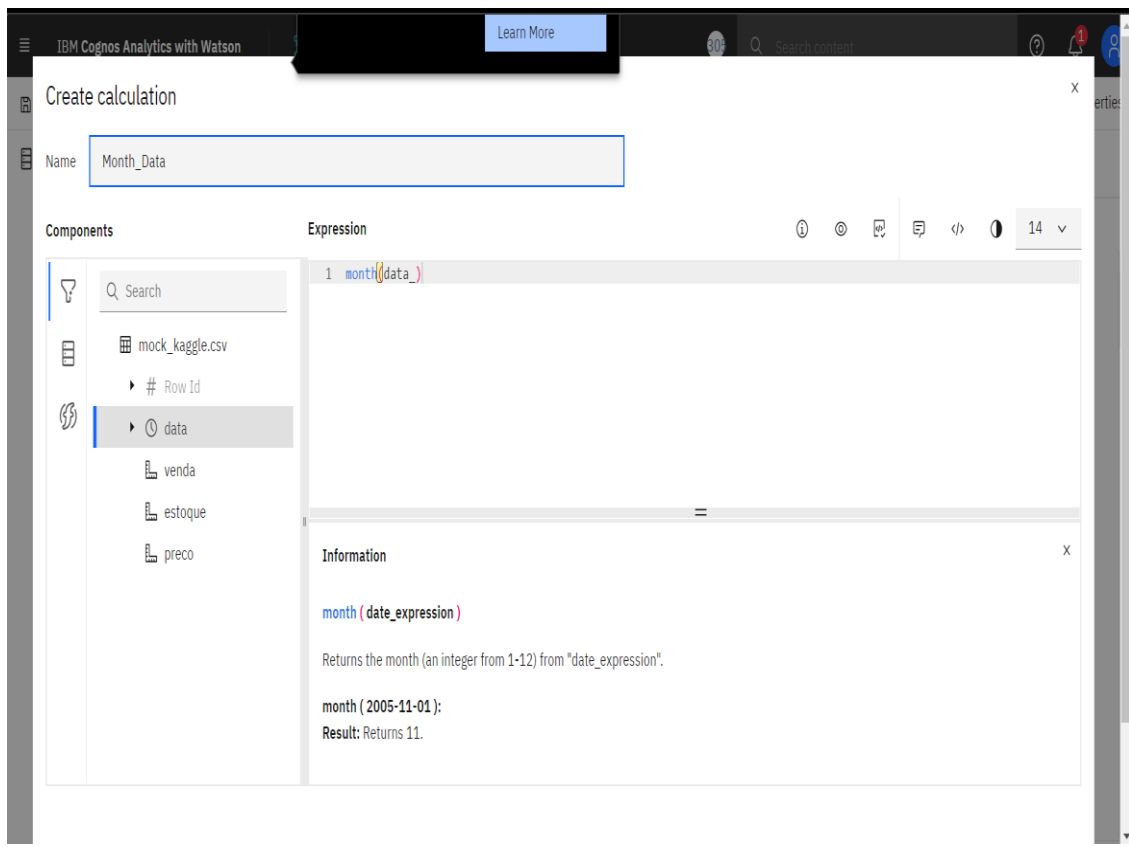
Relationships








Custom tables

| Month_Data | Revenue | Row Id | Year | sales | Stock |
|------------|---------|--------|---------|-------|-------|
| 1 | 0 | 1 | 1/1/14 | 0 | 4972 |
| 1 | 90 | 2 | 1/2/14 | 70 | 4902 |
| 1 | 76 | 3 | 1/3/14 | 59 | 4843 |
| 1 | 120 | 4 | 1/4/14 | 93 | 4750 |
| 1 | 124 | 5 | 1/5/14 | 96 | 4654 |
| 1 | 187 | 6 | 1/6/14 | 145 | 4509 |
| 1 | 231 | 7 | 1/7/14 | 179 | 4329 |
| 1 | 414 | 8 | 1/8/14 | 321 | 4104 |
| 1 | 136 | 9 | 1/9/14 | 125 | 4459 |
| 1 | 96 | 10 | 1/10/14 | 88 | 5043 |
| 1 | 205 | 11 | 1/11/14 | 188 | 5239 |




Month Data:


- *Creating a new calculation to get the month data.*






      


Properties


 Data module  


 Search


 New data module


 Navigation paths 


 mock_kaggle.csv


 Month_Data





 # Row Id












 Grid

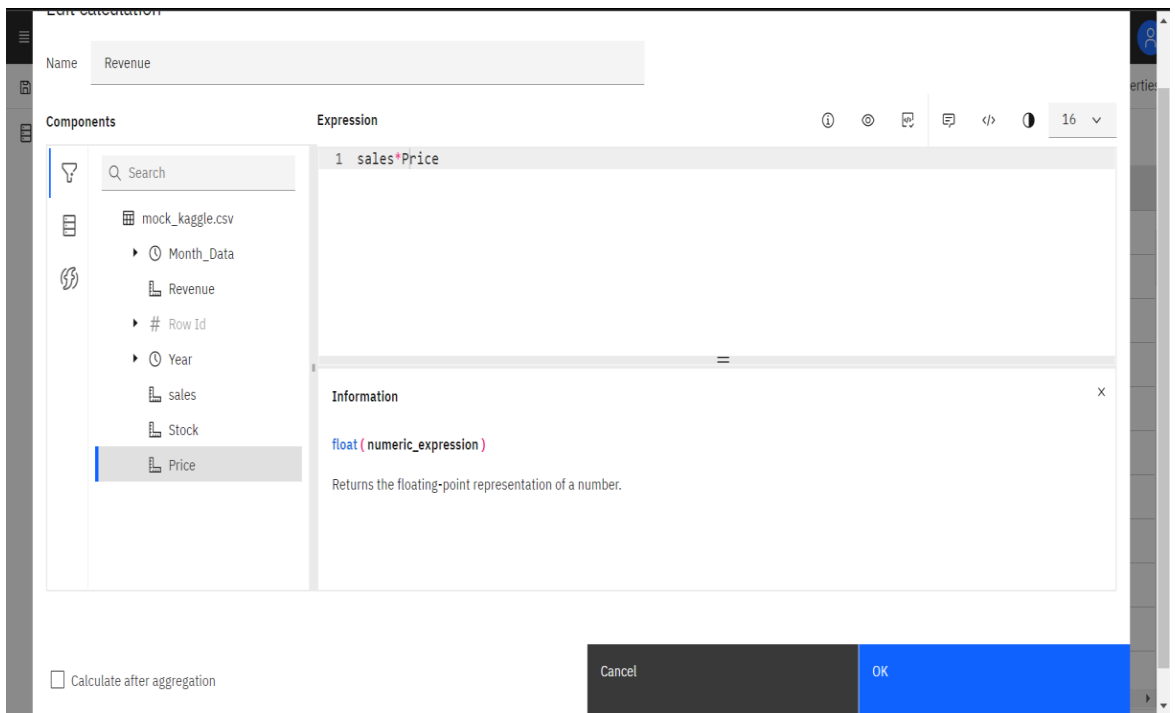
 Relationships

 Custom tables

|  ↑ | Month_Data | Revenue | Row Id | Year | sales | Stock |
|---|------------|---------|--------|---------|-------|-------|
| | 1 | 0 | 1 | 1/1/14 | 0 | 4972 |
| | 1 | 90 | 2 | 1/2/14 | 70 | 4902 |
| | 1 | 76 | 3 | 1/3/14 | 59 | 4843 |
| | 1 | 120 | 4 | 1/4/14 | 93 | 4750 |
| | 1 | 124 | 5 | 1/5/14 | 96 | 4654 |
| | 1 | 187 | 6 | 1/6/14 | 145 | 4509 |
| | 1 | 231 | 7 | 1/7/14 | 179 | 4329 |
| | 1 | 414 | 8 | 1/8/14 | 321 | 4104 |
| | 1 | 136 | 9 | 1/9/14 | 125 | 4459 |
| | 1 | 96 | 10 | 1/10/14 | 88 | 5043 |
| | 1 | 205 | 11 | 1/11/14 | 188 | 5239 |

Revenue Data:

- *Creating a new calculation to get the revenue data.*



Data module

Search

New data module

Navigation paths

mock_kaggle.csv

Month_Data

Revenue

Row Id

Year

sales

Stock

Price

Grid

Relationships

Custom tables

| Month_Data | Revenue | Row Id | Year | sales | Stock |
|------------|--------------------|--------|---------|-------|-------|
| 1 | 0 | 1 | 1/1/14 | 0 | 4972 |
| 1 | 90.3 | 2 | 1/2/14 | 70 | 4902 |
| 1 | 76.11 | 3 | 1/3/14 | 59 | 4843 |
| 1 | 119.97 | 4 | 1/4/14 | 93 | 4750 |
| 1 | 123.84 | 5 | 1/5/14 | 96 | 4654 |
| 1 | 187.05 | 6 | 1/6/14 | 145 | 4509 |
| 1 | 230.91 | 7 | 1/7/14 | 179 | 4329 |
| 1 | 414.09000000000003 | 8 | 1/8/14 | 321 | 4104 |
| 1 | 136.25 | 9 | 1/9/14 | 125 | 4459 |
| 1 | 95.92 | 10 | 1/10/14 | 88 | 5043 |
| 1 | 204.92000000000002 | 11 | 1/11/14 | 188 | 5239 |

Year Data:

IBM Cognos Analytics with Watson

New data module

90%

Search content

Grid

Relationships

Custom tables

Search

New data module

Navigation paths

mock_k...le.csv

Month_Data

Revenue

Row Id

Year

sales

Stock

Price

Grid

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

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

Sales Data:

IBM Cognos Analytics with Watson

New data module

Search content

Properties

Data module

Grid Relationships Custom tables

Search

New data module

Naviga... paths

mock_k...le.csv

Month_Data

Revenue

Row Id

Year

sales

Stock

Price

| 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 |

Properties

General

Label sales

Hide from users

Expression View or edit

Usage Measure

Aggregate Total

Data type Integer

Represents

Default

Lookup reference None

Description

Stock Data:

IBM Cognos Analytics with Watson

New data module

90%

Search content

Properties

Data module

Search

New data module

Naviga... paths

mock_k...le.csv

Month_Data

Revenue

Row Id

Year

sales

Stock

Price

Grid

Relationships

Custom tables

Properties

General

| Id | Year | sales | Stock |
|---------|---------|-------|-------|
| 1/1/14 | 1/1/14 | 0 | 4972 |
| 1/2/14 | 1/2/14 | 70 | 4902 |
| 1/3/14 | 1/3/14 | 59 | 4843 |
| 1/4/14 | 1/4/14 | 93 | 4750 |
| 1/5/14 | 1/5/14 | 96 | 4654 |
| 1/6/14 | 1/6/14 | 145 | 4509 |
| 1/7/14 | 1/7/14 | 179 | 4329 |
| 1/8/14 | 1/8/14 | 321 | 4104 |
| 1/9/14 | 1/9/14 | 125 | 4459 |
| 1/10/14 | 1/10/14 | 88 | 5043 |
| 1/11/14 | 1/11/14 | 188 | 5239 |

Label

Stock

Hide from users

Expression

View or edit

Usage

Measure

Aggregate

Total

Data type

Integer

Represents

Default

Lookup reference

None

Description

Price Data:

IBM Cognos Analytics with Watson

New data module

90%

Search content

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Grid

Relationships

Custom tables

Properties

Search

New data module

Naviga... paths

mock_k...le.csv

Month_Data

Revenue

Row Id

Year

sales

Stock

Price

| ↑↓ | ir | sales | Stock | Price |
|----|------|-------|-------|-------|
| | /14 | 0 | 4972 | 1 |
| | /14 | 70 | 4902 | 1 |
| | /14 | 59 | 4843 | 1 |
| | /14 | 93 | 4750 | 1 |
| | /14 | 96 | 4654 | 1 |
| | /14 | 145 | 4509 | 1 |
| | /14 | 179 | 4329 | 1 |
| | /14 | 321 | 4104 | 1 |
| | /14 | 125 | 4459 | 1 |
| | 0/14 | 88 | 5043 | 1 |
| | 1/14 | 188 | 5239 | 1 |

General

LabelPrice

Hide from users

ExpressionView or edit

UsageMeasure

AggregateTotal

Data typeDecimal

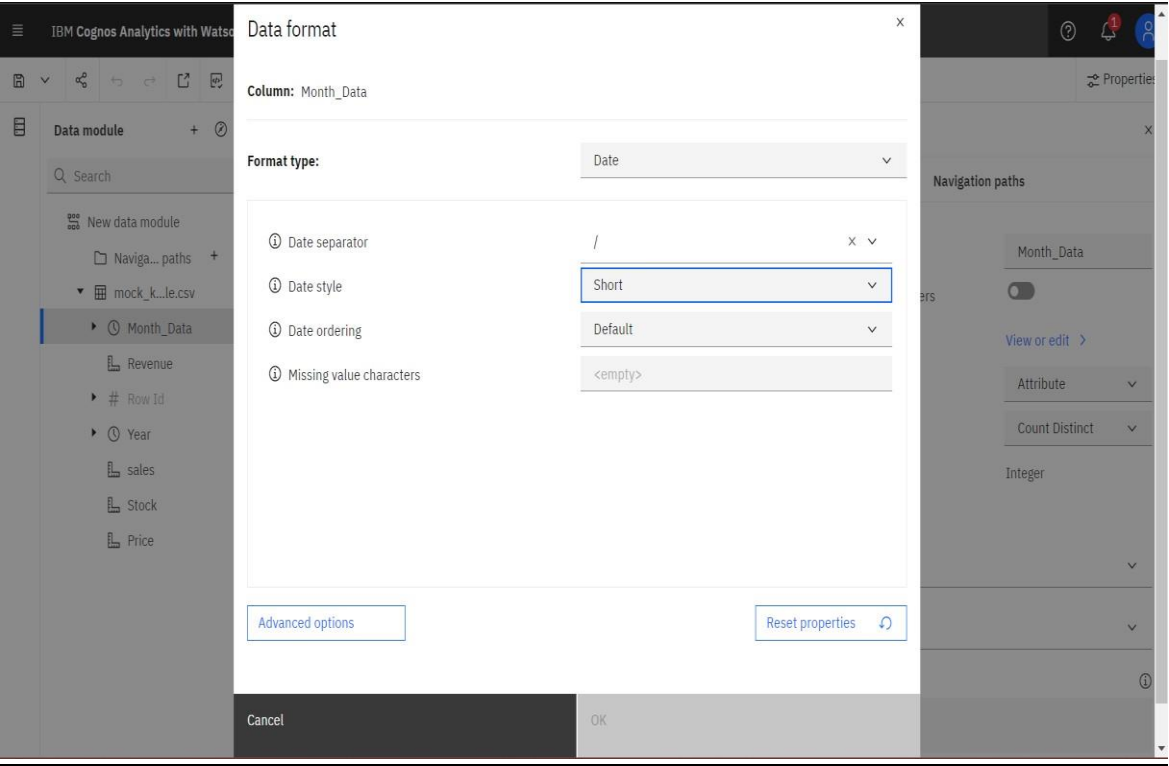
Represents

Default

Lookup referenceNone

Description

Month-Format Data:



Grid

Relationships

Custom tables

Search

New data module

Naviga... paths

mock_k...le.csv

Month_Data

Revenue

Row Id

Year

sales

Stock

Price

| Month_Data | Revenue | Row Id | Year |
|------------|--------------------|--------|---------|
| 1 | 0 | 1 | 1/1/14 |
| 1 | 90.3 | 2 | 1/2/14 |
| 1 | 76.11 | 3 | 1/3/14 |
| 1 | 119.97 | 4 | 1/4/14 |
| 1 | 123.84 | 5 | 1/5/14 |
| 1 | 187.05 | 6 | 1/6/14 |
| 1 | 230.91 | 7 | 1/7/14 |
| 1 | 414.09000000000003 | 8 | 1/8/14 |
| 1 | 136.25 | 9 | 1/9/14 |
| 1 | 95.92 | 10 | 1/10/14 |
| 1 | 204.92000000000002 | 11 | 1/11/14 |
| 1 | 131.89000000000001 | 12 | 1/12/14 |

Properties

General

Navigation paths

Label

Month_Data

Hide from users

Expression

View or edit

Usage

Attribute

Aggregate

Count Distinct

Data type

Integer

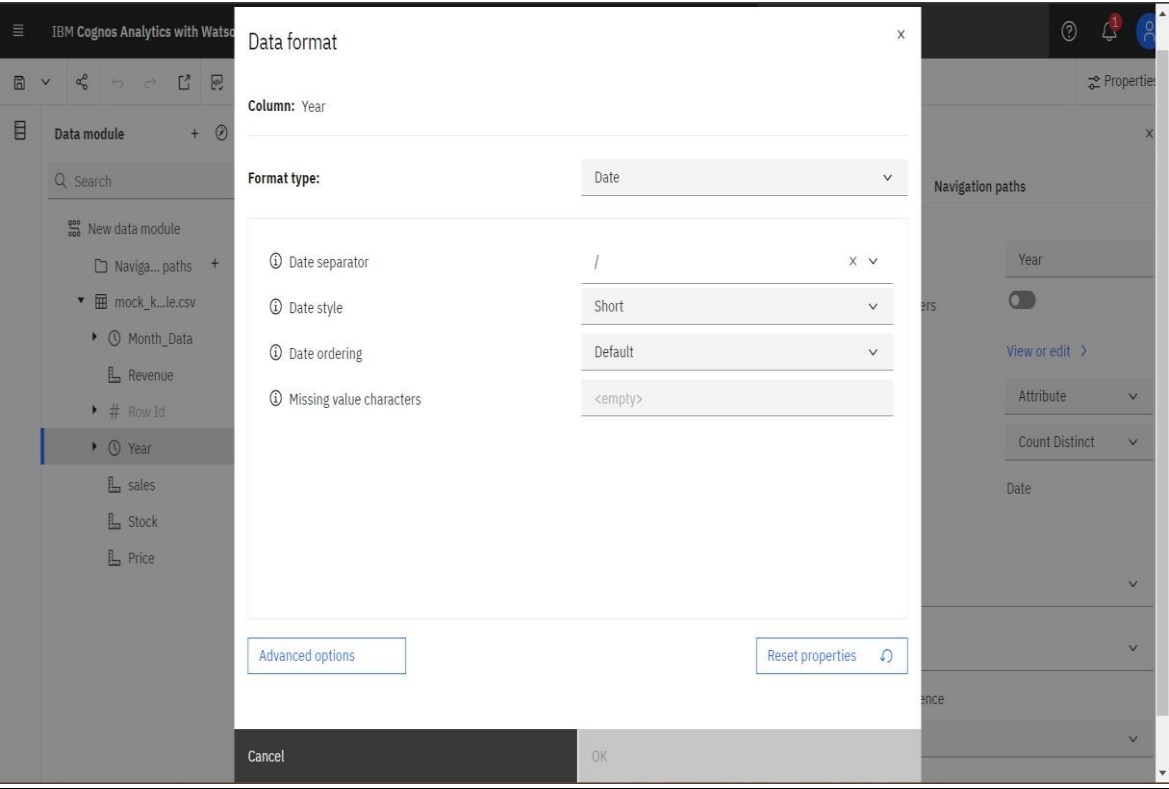
Represents

Time

Month

Description

Year-Format Data:



Grid

Relationships

Custom tables

Search

New data module

Navigation paths

mock_k...le.csv

Month_Data

Revenue

Row Id

Year

sales

Stock

Price

| Month_Data | Revenue | Row Id | Year |
|--------------------|---------|--------|---------|
| 0 | | 1 | 1/1/14 |
| 90.3 | | 2 | 1/2/14 |
| 76.11 | | 3 | 1/3/14 |
| 119.97 | | 4 | 1/4/14 |
| 123.84 | | 5 | 1/5/14 |
| 187.05 | | 6 | 1/6/14 |
| 230.91 | | 7 | 1/7/14 |
| 414.09000000000003 | | 8 | 1/8/14 |
| 136.25 | | 9 | 1/9/14 |
| 95.92 | | 10 | 1/10/14 |
| 204.92000000000002 | | 11 | 1/11/14 |
| 131.89000000000001 | | 12 | 1/12/14 |

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

Sales-Format Data:

The screenshot shows the 'Data format' dialog box in IBM Cognos Analytics. The dialog is titled 'Data format' and has a close button (X) in the top right corner. It is currently set for the 'Column: sales'. The 'Format type' is set to 'Number'. Below this, there are five settings, each with an information icon (i) and a reset icon (X):

- 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 two buttons: 'Advanced options' and 'Reset properties' (with a circular arrow icon). The background shows the IBM Cognos Analytics interface with the 'Data module' pane on the left and the 'Properties' pane on the right.

| Setting | Value |
|--------------------------|---------|
| Format type | Number |
| Number of decimal places | 0 |
| Negative sign symbol | Default |
| Use thousands separator | No |
| Negative sign position | Default |
| Missing value characters | <empty> |

Grid

Relationships

Custom tables

↑

revenue

Row Id

Year

sales

S

| | | | | |
|--------------------|--|----|---------|-----|
| | | 1 | 1/1/14 | 0 |
| 3 | | 2 | 1/2/14 | 70 |
| 11 | | 3 | 1/3/14 | 59 |
| 1.97 | | 4 | 1/4/14 | 93 |
| 1.84 | | 5 | 1/5/14 | 96 |
| 1.05 | | 6 | 1/6/14 | 145 |
| 1.91 | | 7 | 1/7/14 | 179 |
| 1.0900000000000003 | | 8 | 1/8/14 | 321 |
| 1.25 | | 9 | 1/9/14 | 125 |
| 92 | | 10 | 1/10/14 | 88 |
| 1.9200000000000002 | | 11 | 1/11/14 | 188 |
| 1.8900000000000001 | | 12 | 1/12/14 | 121 |

Properties

General

Label

sales

Hide from users

☐

Expression

[View or edit](#)

Usage

Measure

Aggregate

Total

Data type

Integer

Represents

Default

Lookup reference

None

Description

Stock-Format Data:

IBM Cognos Analytics with Watson

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Data module

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Search

📄

New data module

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Naviga... paths

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📄

mock_k...le.csv

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Month_Data

📄

Revenue

🔢

Row Id

🕒

Year

📄

sales

📄

Stock

📄

Price

✕

Data format

Column: Stock

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

🔄

🔔

🔔

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🔗

Properties

✕

Stock

🔴

View or edit

>

Measure

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Total

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Integer

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IBM Cognos Analytics with Watson

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Data module

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🔍 Search

New data module

📁 Naviga...paths

📁 mock_k...le.csv

🕒 Month_Data

📊 Revenue

📊 # Row Id

🕒 Year

📊 sales

📊 Stock

📊 Price

Data format

✕

Column: Stock

Format type: Number

① Number of decimal places

0

x

① Negative sign symbol

Default

① Use thousands separator

No

① Negative sign position

Default

① Missing value characters

<empty>

Advanced options

Reset properties

?

🔔

👤

Properties

✕

Stock

View or edit

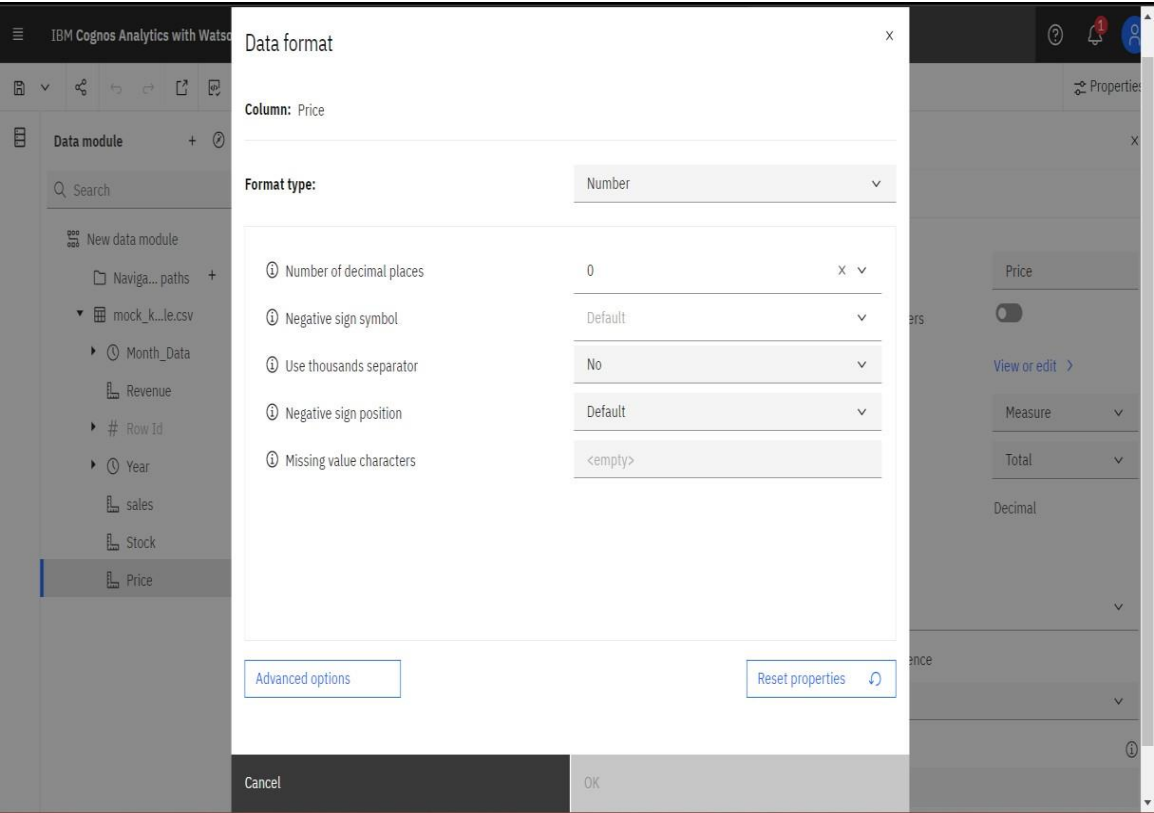
Measure

Total

Integer

ence

Price-Format Data:



Grid

Relationships

Custom tables

Properties

General

Search

New data module

Naviga... paths

mock_k...le.csv

Month_Data

Revenue

Row Id

Year

sales

Stock

Price

| ir | sales | Stock | Price |
|------|-------|-------|-------|
| /14 | 0 | 4972 | 1 |
| /14 | 70 | 4902 | 1 |
| /14 | 59 | 4843 | 1 |
| /14 | 93 | 4750 | 1 |
| /14 | 96 | 4654 | 1 |
| /14 | 145 | 4509 | 1 |
| /14 | 179 | 4329 | 1 |
| /14 | 321 | 4104 | 1 |
| /14 | 125 | 4459 | 1 |
| 0/14 | 88 | 5043 | 1 |
| 1/14 | 188 | 5239 | 1 |
| 2/14 | 121 | 5118 | 1 |

Label

Price

Hide from users

Expression

View or edit

Usage

Measure

Aggregate

Total

Data type

Decimal

Represents

Default

Lookup reference

None

Description

Revenue-Format Data:

The screenshot shows the 'Data format' dialog box in IBM Cognos Analytics. The dialog is titled 'Data format' and has a close button (X) in the top right corner. The 'Column' is set to 'Revenue'. The 'Format type' is set to 'Number'. The dialog lists several formatting options:

- Number of decimal places: 0
- Negative sign symbol: Default
- Use thousands separator: No (highlighted with a blue border)
- Negative sign position: Default
- Missing value characters: <empty>

At the bottom of the dialog, there are two buttons: 'Advanced options' and 'Reset properties'. The 'Reset properties' button has a circular arrow icon. The dialog is overlaid on a dark background showing the IBM Cognos Analytics interface, including a sidebar with 'Data module' and 'Revenue' selected, and a right-hand pane with 'Properties' and 'Measure' sections.

| Property | Value |
|--------------------------|---------|
| Format type | Number |
| Number of decimal places | 0 |
| Negative sign symbol | Default |
| Use thousands separator | No |
| Negative sign position | Default |
| Missing value characters | <empty> |

Buttons: Advanced options, Reset properties, Cancel, OK

Properties

Data module

Search

New data module

Naviga... paths

mock_k...le.csv

Month_Data

Revenue

Row Id

Year

sales

Stock

Price

Grid

Relationships

Custom tables

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

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

Prepared Data Link(Using Cognos Analytics):

https://us1.ca.analytics.ibm.com/bi/?perspective=ca-modeller&pathRef=.public_folders%2FSprint%2U1%2FNew%2Bdata%2Bmodule