

Project Development Phase Delivery of Sprint-1

Team ID	PNT2022TMID09334
Project Name	Retail Store Stock Inventory Analytics

Data Collection

Download the Dataset

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

Load the Dataset:

The screenshot displays the IBM Cognos Analytics with Watson web application. At the top, a navigation bar includes the IBM logo, the text 'IBM Cognos Analytics with Watson', a search bar, and user profile icons. A blue banner at the top of the main content area reads 'Hello. Welcome to Cognos Analytics with Watson.' Below this, a message states: 'You can get started right away by taking a look at our introduction video, product tour and Getting Started tab.' Two buttons, 'Watch video' and 'Take a product tour', are provided. To the right of the text is a 3D isometric illustration of data cubes and charts. Below the main content area, a 'Quick launch' section features four cards: 'Upload data' (with an upload icon), 'Prepare data' (with a data module icon), 'Exploration' (with a magnifying glass icon), and 'Present data' (with a presentation icon). Each card contains a brief description of the functionality.

us1.ca.analytics.ibm.com/bi/?perspective=home

IBM Cognos Analytics with Watson

Maintenance: Scheduled maintenance completed. Click More mock_kaggle.csv was uploaded successfully. Hide Details Dismiss More info

Hello. Welcome to Cognos Analytics with Watson.

You can get started right away by taking a look at our introduction video, product tour and Getting Started tab.

Watch video Take a product tour

Quick launch

Upload data

Upload or drag and drop spreadsheets, csv files, and other data sources.

Prepare data

Use data modules to clean and connect data from multiple resources.

Exploration

Quickly find unbiased answers by identifying trends in your data with data exploration.

Present data

Create sophisticated, multi-page, multi-query dashboards, reports, or stories.

us1.ca.analytics.ibm.com/bi/?perspective=content&tab=myContent&folder=i4D3150657606479486E36D49D155B2DC

IBM Cognos Analytics with Watson Content

New +

My content Team content Samples

Item Name	Last Accessed	Icon
50_Startups.csv	10/20/2022, 10:43 AM	CSV Upload
Dashboard Creation	11/2/2022, 10:52 AM	Dashboard
mock_kaggle.csv	10/28/2022, 1:10 PM	CSV Upload
Monthly Revenue By Pie Chart	11/2/2022, 12:05 PM	Chart
Monthly Sales Using Tree Map	11/2/2022, 11:52 AM	Map
Prepared Inventory Data Module	11/5/2022, 9:24 AM	Module
Summary Cards Of Total Revenue,Sales,Stock,Price	11/2/2022, 10:09 AM	Summary Cards
Top10 Sales By Year Using Line Graph	11/2/2022, 9:52 AM	Line Graph
Year Wise Price Using Line Graph	11/2/2022, 11:28 AM	Line Graph
Year Wise Stock Using Line Graph	10/28/2022, 2:18 PM	Line Graph

Data Preparation

Create calculation

Name

Month data

Components

mock_kaggle.csv

Row Id

data

venda

estoque

preco

Expression

1 Month (data_)

Validation Results

The expression is valid.

Calculate after aggregation

Cancel

OK

Create calculation

Name

Revenue

Components

Inventory M...Dataset.csv

M_Data

Row Id

Year

sales

Stock

Price

Expression

1 venda*preco

Validation Results

The expression is valid.

Calculate after aggregation

Cancel

OK

us1.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=i6E59A875C1CC48619EF2B658022C5601&objRef=i6E59A875C1CC48619EF2B658022C5601&tid=1584271249_7b9354a465b34e758382b...

IBM Cognos Analytics with Watson Prepared Invent ... Data Module

Grid Relationships Custom tables

Revenue M_Data Row Id Year Sales

Revenue	M_Data	Row Id	Year	Sales
0	1	1	1/1/14	0
90.3	1	2	1/2/14	70
76.11	1	3	1/3/14	59
119.97	1	4	1/4/14	93
123.84	1	5	1/5/14	96
187.05	1	6	1/6/14	145
230.91	1	7	1/7/14	179
414.09	1	8	1/8/14	321
136.25	1	9	1/9/14	125
95.92	1	10	1/10/14	88
204.92	1	11	1/11/14	188
131.89	1	12	1/12/14	121
146.06	1	13	1/13/14	134
87.2	1	14	1/14/14	80
89.38	1	15	1/15/14	82

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

us1.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=i6E59A875C1CC48619EF2B658022C5601&objRef=i6E59A875C1CC48619EF2B658022C5601&tid=1584271249_7b9354a465b34e758382b...

IBM Cognos Analytics with Watson Prepared Invent ... Data Module

Grid Relationships Custom tables

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0	1	1	1/1/14	0
90.3	1	2	1/2/14	70
76.11	1	3	1/3/14	59
119.97	1	4	1/4/14	93
123.84	1	5	1/5/14	96
187.05	1	6	1/6/14	145
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204.92	1	11	1/11/14	188
131.89	1	12	1/12/14	121
146.06	1	13	1/13/14	134
87.2	1	14	1/14/14	80
89.38	1	15	1/15/14	82

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

Comments

us1.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=i6E59A875C1CC48619EF2B658022C5601&objRef=i6E59A875C1CC48619EF2B658022C5601&tid=1584271249_7b9354a465b34e758382b...

IBM Cognos Analytics with Watson Prepared Invent ... Data Module

Data module

Grid Relationships Custom tables

Revenue	M_Data	Row Id	Year	Sales
0	1	1	1/1/14	0
90.3	1	2	1/2/14	70
76.11	1	3	1/3/14	59
119.97	1	4	1/4/14	93
123.84	1	5	1/5/14	96
187.05	1	6	1/6/14	145
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414.09	1	8	1/8/14	321
136.25	1	9	1/9/14	125
95.92	1	10	1/10/14	88
204.92	1	11	1/11/14	188
131.89	1	12	1/12/14	121
146.06	1	13	1/13/14	134
87.2	1	14	1/14/14	80
89.38	1	15	1/15/14	82

Properties

General Navigation paths

Label Row Id

Hide from users ☒

Expression [View or edit](#)

Usage Identifier

Aggregate Count

Data type Integer

Represents

Default

Description

Represents the row number identifier, as originally found in the uploaded file.

Comments

Represents the row number identifier, as originally found in the uploaded file.

us1.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=i6E59A875C1CC48619EF2B658022C5601&objRef=i6E59A875C1CC48619EF2B658022C5601&tid=1584271249_7b9354a465b34e758382b...

IBM Cognos Analytics with Watson Prepared Invent ... Data Module

Data module

Grid Relationships Custom tables

Revenue	M_Data	Row Id	Year	Sales
0	1	1	1/1/14	0
90.3	1	2	1/2/14	70
76.11	1	3	1/3/14	59
119.97	1	4	1/4/14	93
123.84	1	5	1/5/14	96
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131.89	1	12	1/12/14	121
146.06	1	13	1/13/14	134
87.2	1	14	1/14/14	80
89.38	1	15	1/15/14	82

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

us1.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=i6E59A875C1CC48619EF2B658022C5601&objRef=i6E59A875C1CC48619EF2B658022C5601&tid=1584271249_7b9354a465b34e758382b...

IBM Cognos Analytics with Watson

Prepared Invent ... Data Module

Search content

Properties

Data module

Search

Prepared Inve... Data Module

Navigation paths

mock_kaggle.csv

Revenue

M_Data

Row Id

Year

Sales

Stock

Price

Grid

ue	M_Data	Row Id	Year	Sales
1	1	1	1/1/14	0
1	1	2	1/2/14	70
1	1	3	1/3/14	59
7	1	4	1/4/14	93
1	1	5	1/5/14	96
5	1	6	1/6/14	145
1	1	7	1/7/14	179
9	1	8	1/8/14	321
5	1	9	1/9/14	125
1	1	10	1/10/14	88
2	1	11	1/11/14	188
9	1	12	1/12/14	121
5	1	13	1/13/14	134
1	1	14	1/14/14	80
1	1	15	1/15/14	82

Properties

General

Label

Sales

Hide from users

Expression

View or edit

Usage

Measure

Aggregate

Total

Data type

Integer

Represents

Default

Lookup reference

None

Description

Comments

us1.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=i6E59A875C1CC48619EF2B658022C5601&objRef=i6E59A875C1CC48619EF2B658022C5601&tid=1584271249_7b9354a465b34e758382b...

IBM Cognos Analytics with Watson

Prepared Invent ... Data Module

Search content

Properties

Data module

Search

Prepared Inve... Data Module

Navigation paths

mock_kaggle.csv

Revenue

M_Data

Row Id

Year

Sales

Stock

Price

Grid

a	Row Id	Year	Sales	Stock
1	1	1/1/14	0	4972
2	2	1/2/14	70	4902
3	3	1/3/14	59	4843
4	4	1/4/14	93	4750
5	5	1/5/14	96	4654
6	6	1/6/14	145	4509
7	7	1/7/14	179	4329
8	8	1/8/14	321	4104
9	9	1/9/14	125	4459
10	10	1/10/14	88	5043
11	11	1/11/14	188	5239
12	12	1/12/14	121	5118
13	13	1/13/14	134	4984
14	14	1/14/14	80	4904
15	15	1/15/14	82	4822

Properties

General

Label

Stock

Hide from users

Expression

View or edit

Usage

Measure

Aggregate

Total

Data type

Integer

Represents

Default

Lookup reference

None

Description

Comments

us1.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=i6E59A875C1CC48619EF2B658022C5601&objRef=i6E59A875C1CC48619EF2B658022C5601&tid=1584271249_7b9354a465b34e758382b...

IBM Cognos Analytics with Watson

Prepared Invent ... Data Module

Grid Relationships Custom tables

Data module

Search

Prepared Inve... Data Module

Navigation paths

mock_kaggle.csv

Revenue

M_Data

Row Id

Year

Sales

Stock

Price

	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
	1/14/14	80	4904	1.09
	1/15/14	82	4822	1.09

Properties

General

Label Price

Hide from users

Expression View or edit

Usage Measure

Aggregate Total

Data type Decimal

Represents

Default

Lookup reference None

Description

Comments

us1.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=i6E59A875C1CC48619EF2B658022C5601&objRef=i6E59A875C1CC48619EF2B658022C5601&tid=1584271249_7b9354a465b34e758382b...

IBM Cognos Analytics with Watson

Prepared Invent ... Data Module

Data format

Column: Revenue

Format type: Number

Number of decimal places Default

Negative sign symbol Default

Use thousands separator Default

Negative sign position Default

Missing value characters <empty>

Advanced options

Reset properties

Cancel OK

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

us1.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=i6E59A875C1CC48619EF2B658022C5601&objRef=i6E59A875C1CC48619EF2B658022C5601&tid=1584271249_7b9354a465b34e758382b...

IBM Cognos Analytics with Watson Prepared Invent ... Data Module

Data module

- Prepared Inve... Data Module
 - Navigation paths
 - mock_kaggle.csv
 - Revenue
 - M_Data
 - # Row Id
 - Year
 - Sales
 - Stock
 - Price

Data format

Column: M_Data

Format type: Date

① Date separator: Default

① Date style: Default

① Date ordering: Default

① Missing value characters: <empty>

Advanced options

Reset properties

Cancel OK

Properties

General

Label: M_Data

Hide from users: ☐

Expression: [View or edit](#)

Usage: Attribute

Aggregate: Count Distinct

Data type: Integer

Represents

Time:

Month:

Description:

Comments:

us1.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=i6E59A875C1CC48619EF2B658022C5601&objRef=i6E59A875C1CC48619EF2B658022C5601&tid=1584271249_7b9354a465b34e758382b...

IBM Cognos Analytics with Watson Prepared Invent ... Data Module

Data module

- Prepared Inve... Data Module
 - Navigation paths
 - mock_kaggle.csv
 - Revenue
 - M_Data
 - # Row Id
 - Year
 - Sales
 - Stock
 - Price

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

Properties

General

Label: Year

Hide from users: ☐

Expression: [View or edit](#)

Usage: Attribute

Aggregate: Count Distinct

Data type: Date

Represents

Time:

Year:

Lookup reference: None

Description:

us1.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=i6E59A875C1CC48619EF2B658022C5601&objRef=i6E59A875C1CC48619EF2B658022C5601&tid=1584271249_7b9354a465b34e758382b...

IBM Cognos Analytics with Watson

Prepared Invent ... Data Module

Data module

Search

Prepared Inve... Data Module

Navigation paths

mock_kaggle.csv

Revenue

M_Data

Row Id

Year

Sales

Stock

Price

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

Properties

General

Label: Sales

Hide from users: ☐

Expression: [View or edit](#)

Usage: Measure

Aggregate: Total

Data type: Integer

Represents: Default

Lookup reference: None

Description

Comments

us1.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=i6E59A875C1CC48619EF2B658022C5601&objRef=i6E59A875C1CC48619EF2B658022C5601&tid=1584271249_7b9354a465b34e758382b...

IBM Cognos Analytics with Watson

Prepared Invent ... Data Module

Data module

Search

Prepared Inve... Data Module

Navigation paths

mock_kaggle.csv

Revenue

M_Data

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

Cancel OK

Properties

General

Label: Stock

Hide from users: ☐

Expression: [View or edit](#)

Usage: Measure

Aggregate: Total

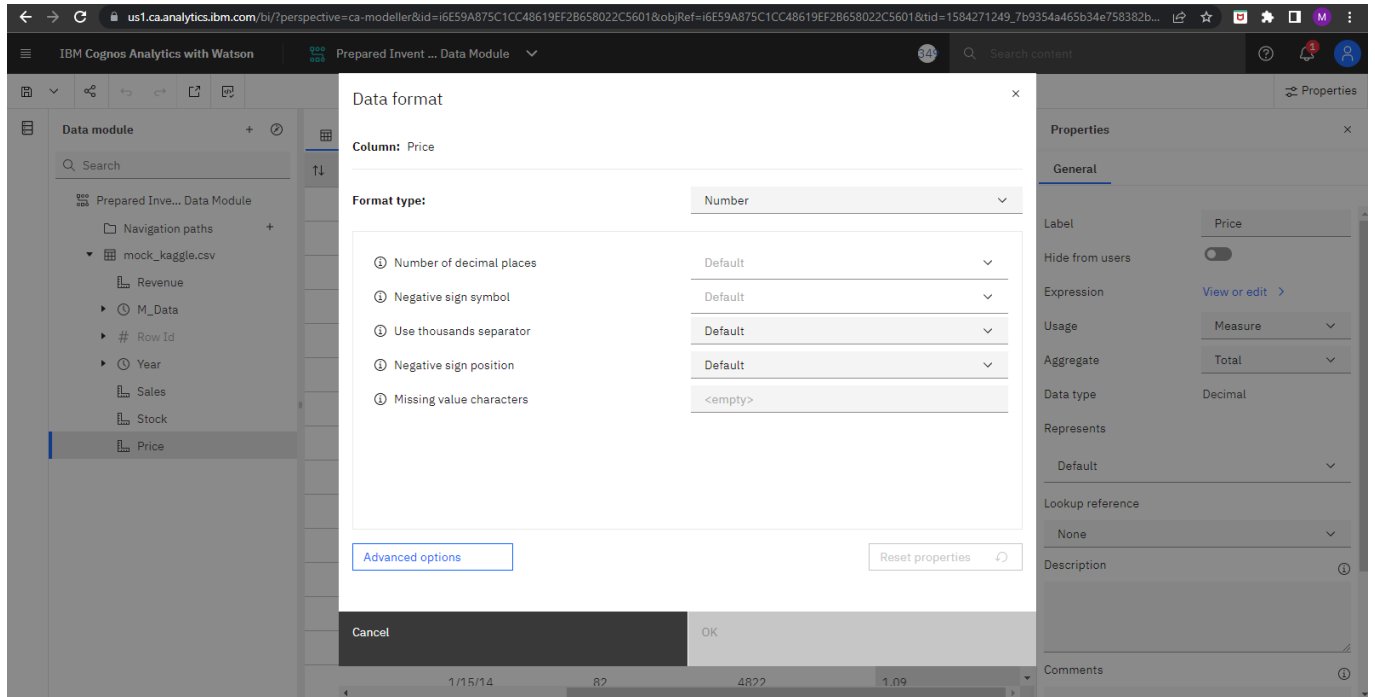
Data type: Integer

Represents: Default

Lookup reference: None

Description

Comments



Prepared data link:

https://us1.ca.analytics.ibm.com/bi/?perspective=ca-modeller&pathRef=.my_folders%2FPrepared%2BInventory%2BData%2BModule

The screenshot shows the IBM Cognos Analytics interface with a data table. The table has the following columns: Revenue, M_Data, Row Id, Year, Sales, Stock, and Price. The table displays 15 rows of data.

Revenue	M_Data	Row Id	Year	Sales	Stock	Price
0	1	1	1/1/14	0	4972	1.29
90.3	1	2	1/2/14	70	4902	1.29
76.11	1	3	1/3/14	59	4843	1.29
119.97	1	4	1/4/14	93	4750	1.29
123.84	1	5	1/5/14	96	4654	1.29
187.05	1	6	1/6/14	145	4509	1.29
230.91	1	7	1/7/14	179	4329	1.29
414.09	1	8	1/8/14	321	4104	1.29
136.25	1	9	1/9/14	125	4459	1.09
95.92	1	10	1/10/14	88	5043	1.09
204.92	1	11	1/11/14	188	5239	1.09
131.89	1	12	1/12/14	121	5118	1.09
146.06	1	13	1/13/14	134	4984	1.09
87.2	1	14	1/14/14	80	4904	1.09
89.38	1	15	1/15/14	82	4822	1.09