

# SPRINT 1

Team ID	PNT2022TMID11384
Project Name	Retail Store Stock Inventory Analytics

**PROJECT DEVELOPMENT PHASE:**

**Sprint-1:**

**Sprint-3:**

- Data Collection
- Data Preparation

### **Sprint-2:**

- Data Exploration

- Dashboard Creation

### **Sprint-4:**

- Report Creation
- Story Creation

## **DATA COLLECTION**

**LOADING DATASET**

New TabMy IBMHomeRetail Store Stock Inventory - GoIBM

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


IBM Cognos Analytics with Watson314Search content

# 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 videoTake a product tour

## Quick launch



### Upload data

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

## Present data

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

Open

Dow...Inventory Management data...

Search Inventory Manage...

OrganiseNew folder

This PC

Desktop

Documents

Downloads

Music

Pictures

Videos

Windows (C:)

Data (D:)


Name	Date modified	Type
mock_kaggle	10-11-2022 18:03	Microsoft Excel C...

File name:

Custom Files

OpenCancel

28°C Cloudy



ENG IN

18:08 10-11-2022



New Tab × My IBM × \* New data module × Retail Store Stock Inventory - Go × IBM × +

us1.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=1584271249\_5ac71fbf382e4ad485ed78bc2a4cd331\_sessionTemp&objRef=&tid=1584271249\_5ac71fbf382e4ad485ed7...

IBM Cognos Analytics with Watson \* New data module 31 Search content ? ? ? ? ?

Grid Relationships Custom tables

Search

New data module

Navigation paths +

Inventory M...dataset.zip

# Row Id

data

venda

estoque

preco

**Preview data**

To preview data, select a table, a column in a table, or a folder that contains columns.

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IBM Cognos Analytics with WatsonNew data module316Search contentProperties

Data module

Search

New data module

Navigation paths

Inventory M...dataset.zip

# Row Id

data

venda

estoque

preco

GridRelationshipsCustom 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	4984	1.09
	14	2014-01-14	80	4904	1.09
	15	2014-01-15	82	4822	1.09

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ENG IN

18:12 10-11-2022

# PREPARING DATASET

The screenshot shows the 'Create calculation' dialog box in IBM Cognos Analytics. The dialog has a title bar 'Create calculation' and a close button. Below the title bar, there is a 'Name' field containing 'Month data'. The main area is divided into two panes: 'Components' on the left and 'Expression' on the right. The 'Components' pane shows a search bar and a list of components under 'Inventory Ma...dataset.zip', including '# Row Id', 'data', 'venda', 'estoque', and 'preco'. The 'Expression' pane contains the text '1 Month(data\_)'. Below the expression pane, there 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'. The background of the application shows a dashboard with a table of data, including columns for date, sales, and revenue. The Windows taskbar at the bottom shows the date as 10-11-2022 and the time as 18:15.

IBM Cognos Analytics with Watson

Create calculation

Name: Month data

Components

- Inventory Ma...dataset.zip
  - # Row Id
  - data
    - venda
    - estoque
    - preco

Expression

1 Month(data\_)

Validation Results

✓ The expression is valid.

☐ Calculate after aggregation

Cancel OK



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IBM Cognos Analytics with WatsonNew data module31Search content

Data module

Search

New data module

Navigation paths

Inventory ...ataset.zip

Month data

1

2

3

4

5

6

7

8

9

10

11

12

# Row Id

data

venda

GridRelationshipsCustom tables

Month data

Row Id

data

venda

	Month data	Row Id	data	venda
1	1	1	2014-01-01	0
1	1	2	2014-01-02	70
1	1	3	2014-01-03	59
1	1	4	2014-01-04	93
1	1	5	2014-01-05	96
1	1	6	2014-01-06	145
1	1	7	2014-01-07	179
1	1	8	2014-01-08	321
1	1	9	2014-01-09	125
1	1	10	2014-01-10	88
1	1	11	2014-01-11	188
1	1	12	2014-01-12	121
1	1	13	2014-01-13	134
1	1	14	2014-01-14	80
1	1	15	2014-01-15	82

Properties

GeneralNavigation paths

LabelMonth data

Hide from users

ExpressionView or edit

UsageAttribute

AggregateCount Distinct

Data typeInteger

Represents

Time

Year

Description

Comments

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IBM Cognos Analytics with Watson

\* New data module

Search content

Properties

Data module

Search

Inventory ...ataset.zip

Month data

1

2

3

4

5

6

7

8

9

10

11

12

# Row Id

year

sales

estoque

preco

Grid

Relationships

Custom tables

Month data

Row Id

year

sales

Properties

General

Navigation paths

Label

year

Hide from users

Expression

View or edit

Usage

Identifier

Aggregate

Count Distinct

Data type

Date

Represents

Time

Date

Lookup reference

None

Description

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Windows taskbar icons

ENG IN

18:23 10-11-2022

↑↓ Month data	Row Id	year	sales
	6	2014-01-06	145
	7	2014-01-07	179
	8	2014-01-08	321
	9	2014-01-09	125
	10	2014-01-10	88
	11	2014-01-11	188
	12	2014-01-12	121
	13	2014-01-13	134
	14	2014-01-14	80
	15	2014-01-15	82
	16	2014-01-16	94
	17	2014-01-18	159
	18	2014-01-19	199
	19	2014-01-20	104



[illegible]



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us1.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=1584271249\_5ac71fbf382e4ad485ed78bc2a4cd331\_sessionTemp&objRef=&tid=1584271249\_5ac71fbf382e4ad485ed7...

Data module

Inventory ...ataset.zip

Month data

1

2

3

4

5

6

7

8

9

10

11

12

# Row Id

year

sales

stock

price

### Data format

Column: Month data

Format type: Date

Date separator: /

Date style: Short

Date ordering: Default

Missing value characters: <empty>

Advanced options

Reset properties

Cancel

OK

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New Tab x My IBM x \* New data module x Retail Store Stock Inventory - Go x IBM

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IBM Cognos Analytics with Watson

\* New data module

Search content

Properties

Data module

Search

Inventory ...ataset.zip

Month data

1

2

3

4

5

6

7

8

9

10

11

12

# Row Id

year

sales

stock

price

Data format

Column: year

Format type: Date

Date separator: /

Date style: Short

Date ordering: Default

Missing value characters: <empty>

Advanced options

Reset properties

Cancel

OK

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New Tab

My IBM

New data module

Retail Store Stock Inventory - Go

IBM

us1.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=1584271249\_5ac71fbf382e4ad485ed78bc2a4cd331\_sessionTemp&objRef=&tid=1584271249\_5ac71fbf382e4ad485ed7...

IBM Cognos Analytics with Watson

New data module

31

Search content

?

1

Inventory ...ataset.zip

Month data

1

2

3

4

5

6

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8

9

10

11

12

# Row Id

year

sales

stock

price

Properties

ies

l

h users

on

e

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reference

on

Comments

Data format

Column: sales

Format type: Number

① Number of decimal places

0

×

▼

① Negative sign symbol

Default

▼

① Use thousands separator

No

▼

① Negative sign position

Default

▼

① Missing value characters

<empty>

▼

Advanced options

Reset properties

Cancel

OK

24

1/29/14

190

27°C Cloudy

Windows

Search

Task View

File Explorer

Edge

Store

Teams

Discord

Chrome

ENG IN

18:29

10-11-2022



New Tab x My IBM x \* New data module x Retail Store Stock Inventory - Go x IBM x

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IBM Cognos Analytics with Watson

\* New data module

Search content

Properties

Data module

Search

Inventory ...ataset.zip

Month data

1

2

3

4

5

6

7

8

9

10

11

12

# 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

27°C Cloudy

ENG IN

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New Tab x My IBM x \* New data module x Retail Store Stock Inventory - Go x IBM

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IBM Cognos Analytics with Watson

\* New data module

Search content

Properties

Data module

Search

Inventory ...ataset.zip

Month data

1

2

3

4

5

6

7

8

9

10

11

12

# Row Id

year

sales

stock

price

Data format

Column: price

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

price

View or edit

Measure

Total

Decimal

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IBM Cognos Analytics with Watson

\* New data module

Search content

Properties

Data module

Search

Inventory ...ataset

Month data

1

2

3

4

5

6

7

8

9

10

11

12

# Row Id

year

sales

stock

price

25/14

198

3595

1

Comments

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### Save as

Name

Inventory Module

Selected destination: My content

My content Team content

Name	Type	Last Accessed
Inventory Management dataset.zip	Uploaded file	10/11/2022, 6:35 AM
mock_kaggle.csv CSV	Uploaded file	10/11/2022, 6:39 AM

Cancel Save

DATASET:

INVENTORY\_ANALYSIS\_module

https://us1.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=iD43E4C17F3B2455F9DAD2AF849386B18&objRef=iD43E4C17F3B2455F9DAD2AF849386B18&tid=2878668387\_0ef872aff...

IBM Cognos Analytics with WatsonINVENTORY\_A ... LYSIS\_module314Search content

Data module

Search

INVENTORY\_A...SIS\_module

Navigation paths

Inventory\_analysis

# Row Id

# Data\_M

YEAR

SALES

STOCK

PRICE

Field Revenue

GridRelationshipsCustom tables

Row Id	Data_M	YEAR	SALES	STOCK	PRICE	Field Revenue
1	1	1 Jan, 2014	0	4972	1.29	0
2	1	2 Jan, 2014	70	4902	1.29	90.3
3	1	3 Jan, 2014	59	4843	1.29	76.11
4	1	4 Jan, 2014	93	4750	1.29	119.97
5	1	5 Jan, 2014	96	4654	1.29	123.84
6	1	6 Jan, 2014	145	4509	1.29	187.05
7	1	7 Jan, 2014	179	4329	1.29	230.91
8	1	8 Jan, 2014	321	4104	1.29	414.09000000
9	1	9 Jan, 2014	125	4459	1.09	136.25
10	1	10 Jan, 2014	88	5043	1.09	95.92
11	1	11 Jan, 2014	188	5239	1.09	204.92000000
12	1	12 Jan, 2014	121	5118	1.09	131.89000000
13	1	13 Jan, 2014	134	4984	1.09	146.06
14	1	14 Jan, 2014	80	4904	1.09	87.2