

# SPRINT 1

Team ID	PNT2022TMID8819
Project Name	Retail Store Stock Inventory Analytics

### **PROJECT DEVELOPMENT PHASE:**

#### **Sprint-1:**

- Data Collection
- Data Preparation

#### **Sprint-2:**

- Data Exploration

#### **Sprint-3:**

- Dashboard Creation

#### **Sprint-4:**

- Report Creation
- Story Creation

# DATA COLLECTION

## LOADING DATASET

The screenshot shows the IBM Cognos Analytics web interface in a browser. The address bar shows the URL `us1.ca.analytics.ibm.com/bi/?perspective=home`. The page header includes the IBM Cognos Analytics logo, a search bar, and user profile icons. The main content area features a welcome message: "Hello. Welcome to Cognos Analytics with Watson." Below this, there are two buttons: "Watch video" and "Take a product tour". A large 3D isometric graphic of blue cubes is on the right. On the left, there is a "Quick launch" section with an "Upload data" button and a description: "Upload or drag and drop spreadsheets, csv files, or other data sources." On the right, there is a "Present data" section with a description: "Create sophisticated, multi-page, multi-query dashboards, reports, or stories." A Windows file explorer dialog is open in the foreground, showing the "Downloads" folder. The file list contains one file: "mock\_kaggle" (Microsoft Excel C...). The "File name" field is empty, and the "Open" button is visible. The Windows taskbar at the bottom shows the date and time as "10-11-2022 18:08" and the system status as "28°C Cloudy".

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

IBM Cognos Analytics with Watson

314 Search 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 video Take a product tour

Quick launch

Upload data

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

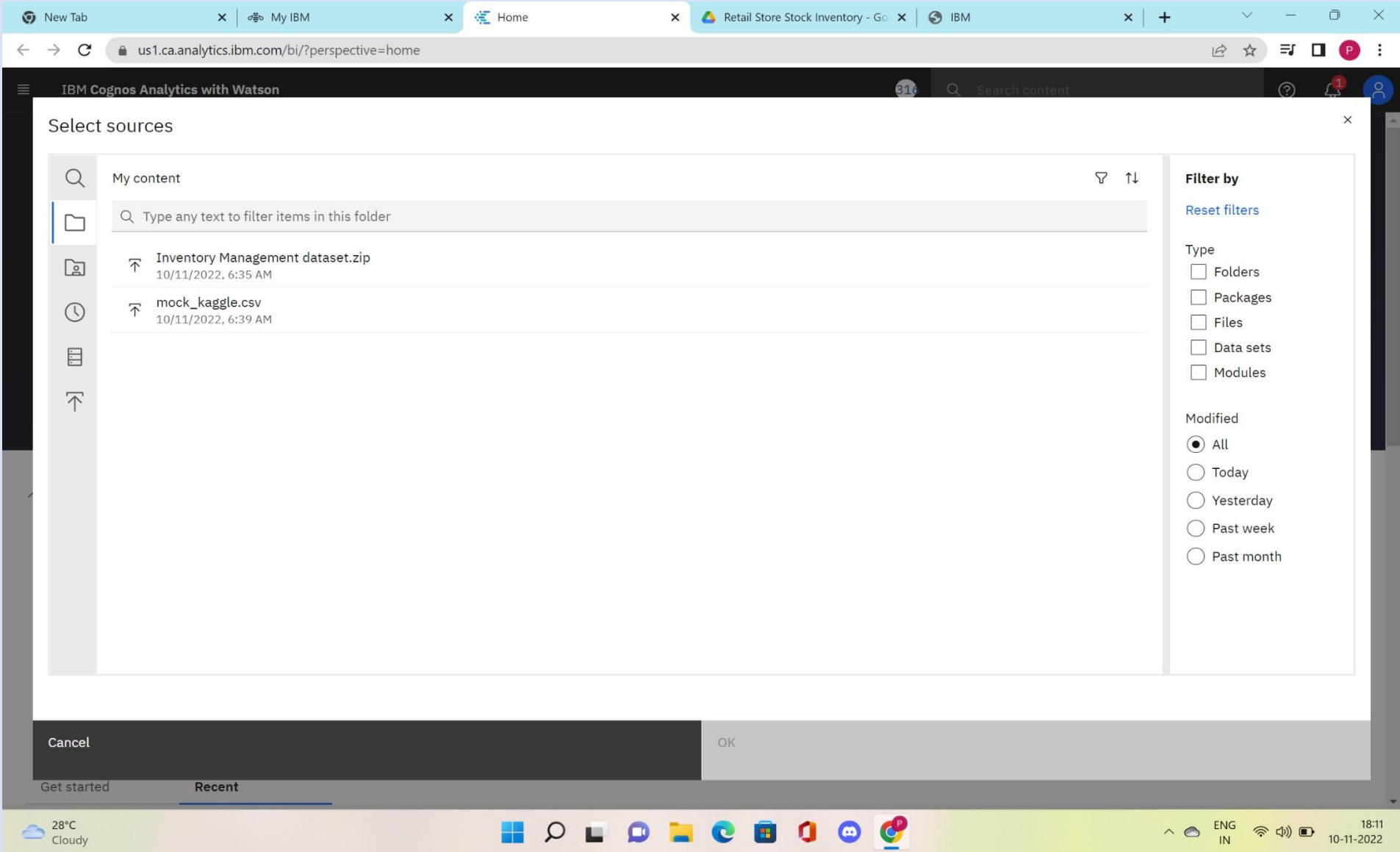
Get started

Present data

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

File name: Custom Files Open Cancel

28°C Cloudy 10-11-2022 18:08



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 316 Search content ? ? ? ? ?

Properties

+

⌚

Search

New data module

Navigation paths +

▼ Inventory M...dataset.zip

▶ # Row Id

▶ ⌚ data

venda

estoque

preco

Grid

Relationships

Custom tables

Preview data

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

28°C Cloudy

ENG IN

18:11 10-11-2022

New TabMy IBMNew data moduleRetail Store Stock Inventory - GoIBM

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

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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18:12 10-11-2022

# PREPARING DATASET

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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New TabMy IBMNew data moduleRetail Store Stock Inventory - GoIBM

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

IBM Cognos Analytics with WatsonNew data module31Search content

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

preco

GridRelationshipsCustom tables

ear	sales	stock	preco
014-01-10	88	5043	1.09
014-01-11	188	5239	1.09
014-01-12	121	5118	1.09
014-01-13	134	4984	1.09
014-01-14	80	4904	1.09
014-01-15	82	4822	1.09
014-01-16	94	4728	1.19
014-01-18	159	4464	1.19
014-01-19	199	4265	1.19
014-01-20	104	4161	1.19
014-01-21	70	4091	1.19
014-01-22	127	3964	1.09
014-01-23	96	3868	1.09
014-01-24	75	3793	1.09
014-01-25	198	3595	1.09

Properties

General

Labelprice

Hide from users

ExpressionView or edit >

UsageMeasure

AggregateTotal

Data typeDecimal

Represents

Default

Lookup referenceNone

Description

Comments

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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

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: Month data

Format type: Date

Date separator: /

Date style: Short

Date ordering: Default

Missing value characters: <empty>

Advanced options

Reset properties

Cancel

OK

27°C Cloudy

ENG IN

18:27 10-11-2022

IBM Cognos Analytics with Watson

Data module

Inventory ...atasset.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

27°C Cloudy

ENG IN

18:27 10-11-2022

IBM Cognos Analytics with Watson

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

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: 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

27°C Cloudy

18:29 10-11-2022

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

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

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

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18:29 10-11-2022



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

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

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

27°C Cloudy

18:29 10-11-2022



## DATASET:

The screenshot displays the IBM Cognos Analytics web interface. The browser address bar shows a URL from us1.ca.analytics.ibm.com. The application header includes the text 'IBM Cognos Analytics with Watson' and a search bar. On the left, a 'Data module' sidebar lists various fields: Row Id, Data\_M, YEAR, SALES, STOCK, PRICE, and Field Revenue. The main area shows a table with 14 rows and 7 columns. The columns are labeled: Row Id, Data\_M, YEAR, SALES, STOCK, PRICE, and Field Revenue. The data represents daily inventory metrics for January 2014.

↑↓	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

## DATASET LINK:

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