

# Project Development Phase

## SPRINT-1

Team ID	PNT2022TMID15255
Project Name	Project – Retail Store Stock Inventory Analytics

### SPRINT-1:

Data Collection

Data Preparation

### DATA COLLECTION:

#### 1. Download the dataset

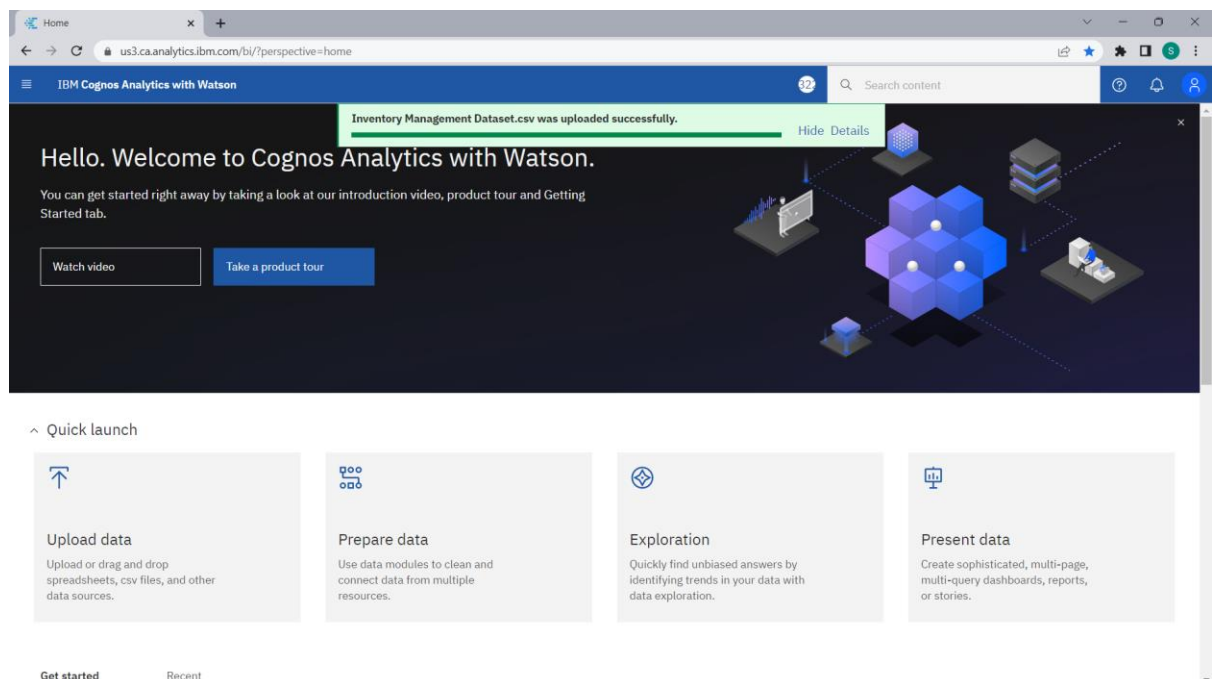
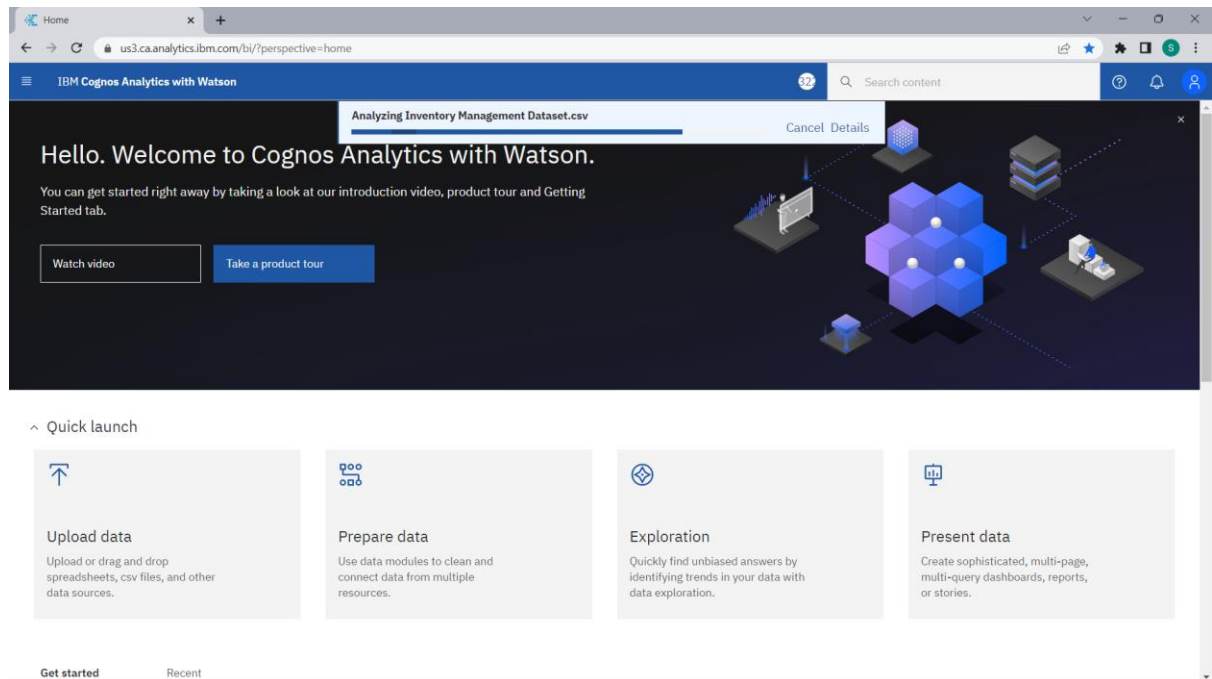
Dataset link -

<https://drive.google.com/file/d/1awFIKJ9LiIdnNHwGLcsqNDbbwshFHR-w/view>

A	B	C	D
data	venda	estoque	preco
1	0	4972	1.29
2	70	4902	1.29
3	59	4843	1.29
4	93	4750	1.29
5	96	4654	1.29
6	145	4509	1.29
7	179	4329	1.29
8	321	4104	1.29
9	125	4459	1.09
10	88	5043	1.09
11	188	5239	1.09
12	121	5118	1.09
13	134	4984	1.09
14	80	4904	1.09
15	82	4822	1.09
16	94	4728	1.19
17	159	4464	1.19
18	199	4265	1.19
19	104	4161	1.19
20	70	4091	1.19
21	127	3964	1.09
22	96	3868	1.09
23	75	3793	1.09
24	198	3595	1.09
25	168	3427	1.09
26	125	3302	1.09
27	86	3216	1.09
28	222	2994	0.99
29			

## 2. Loading the dataset

Tool Used – IBM Cognos Analytics

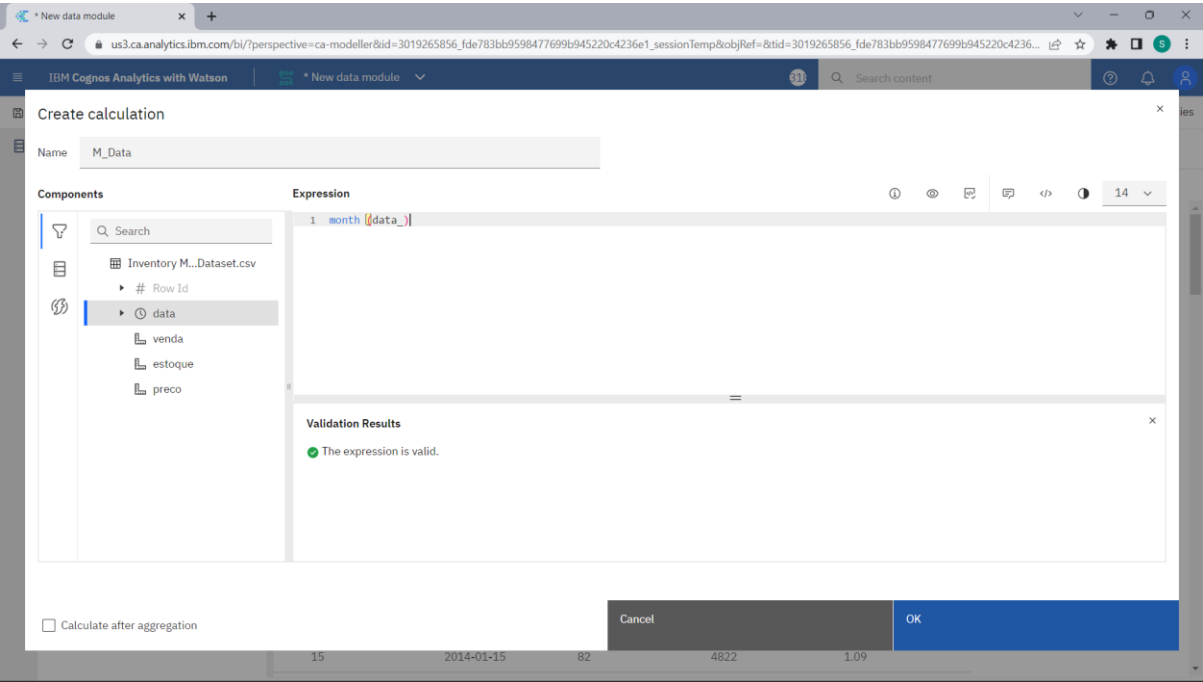


## DATA PREPARATION:

The screenshot shows the IBM Cognos Analytics with Watson home page. The browser address bar displays `us3.ca.analytics.ibm.com/bi/?perspective=home`. The page header includes the IBM Cognos Analytics with Watson logo, a search bar, and a notification banner stating "Maintenance: Scheduled maintenance completed. Click More Info for details and to subscribe to future events". The main content area features a large banner with the text "Hello. Welcome to Cognos Analytics with Watson." and two buttons: "Watch video" and "Take a product tour". Below the banner, there is a "Quick launch" section with four cards: "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), and "Present data" (Create sophisticated, multi-page, multi-query dashboards, reports, or stories).

The screenshot shows the "Select sources" dialog box in IBM Cognos Analytics. The dialog box has a search bar at the top with the text "My content". Below the search bar, there is a list of files and folders. The files listed are: "50\_Startups.csv" (9/20/2022, 5:15 AM), "Inventory Management Dataset.csv" (11/1/2022, 4:16 AM), "Pharma\_Monthly\_Sales (1).csv" (9/25/2022, 4:49 AM), "Pharma\_Monthly\_Sales.csv" (11/4/2022, 4:06 AM), and "US Superstore data.xls - Orders.csv" (11/4/2022, 4:06 AM). On the right side of the dialog box, there is a "Filter by" section with a "Reset filters" button. The "Filter by" section includes a "Type" section with checkboxes for "Folders", "Packages", "Files", "Data sets", and "Modules". The "Modified" section has radio buttons for "All" (selected), "Today", "Yesterday", "Past week", and "Past month". At the bottom of the dialog box, there are "Cancel" and "OK" buttons.

# Month Data:



**Data module**

Grid Relationships Custom tables

M_Data	Row Id	Year	Sales	Stock	Price
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
1	14	2014-01-14	80	4904	1.09
1	15	2014-01-15	82	4822	1.09

## Revenue Data:

**Create calculation**

Name: Revenue

Expression: `venda*prec`

Components:

- Inventory M...Dataset.csv
  - # M\_Data
  - # Row Id
  - Year
  - Sales
  - Stock
  - Price

Validation Results: The expression is valid.

☐ Calculate after aggregation

Cancel OK

New data module

us3.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=3019265856\_fde783bb9598477699b945220c4236e1\_sessionTemp&objRef=&tid=3019265856\_fde783bb9598477699b945220c4236...

IBM Cognos Analytics with Watson

New data module

Search content

Properties

Data module

Grid Relationships Custom tables

Search

New data module

Navigation paths

Inventory M...ataset.csv

Revenue

# M\_Data

# Row Id

Year

Sales

Stock

Price

tl	Revenue	M_Data	Row Id	Year	Sales	Stock	Price
	0	1	1	2014-01-01	0	4972	1.29
	90.3	1	2	2014-01-02	70	4902	1.29
	76.11	1	3	2014-01-03	59	4843	1.29
	119.97	1	4	2014-01-04	93	4750	1.29
	123.84	1	5	2014-01-05	96	4654	1.29
	187.05	1	6	2014-01-06	145	4509	1.29
	230.91	1	7	2014-01-07	179	4329	1.29
	414.090000000000003	1	8	2014-01-08	321	4104	1.29
	136.25	1	9	2014-01-09	125	4459	1.09
	95.92	1	10	2014-01-10	88	5043	1.09
	204.920000000000002	1	11	2014-01-11	188	5239	1.09
	131.890000000000001	1	12	2014-01-12	121	5118	1.09
	146.06	1	13	2014-01-13	134	4984	1.09
	87.2	1	14	2014-01-14	80	4904	1.09
	89.380000000000001	1	15	2014-01-15	82	4822	1.09

## Year Data:

The screenshot shows the IBM Cognos Analytics interface. The left sidebar displays a 'Data module' with a search bar and a tree view containing 'New data module', 'Navigation paths', 'Inventory M...ataset.csv', 'Revenue', '# M\_Data', '# Row Id', 'Year', 'Sales', 'Stock', and 'Price'. The 'Year' item is selected. The main area shows a table with columns: Revenue, M\_Data, Row Id, Year, Sales, Stock, and Price. The table contains 15 rows of data for the year 2014, with dates ranging from 2014-01-01 to 2014-01-15.

Revenue	M_Data	Row Id	Year	Sales	Stock	Price
0	1	1	2014-01-01	0	4972	1.29
90.3	1	2	2014-01-02	70	4902	1.29
76.11	1	3	2014-01-03	59	4843	1.29
119.97	1	4	2014-01-04	93	4750	1.29
123.84	1	5	2014-01-05	96	4654	1.29
187.05	1	6	2014-01-06	145	4509	1.29
230.91	1	7	2014-01-07	179	4329	1.29
414.09000000000003	1	8	2014-01-08	321	4104	1.29
136.25	1	9	2014-01-09	125	4459	1.09
95.92	1	10	2014-01-10	88	5043	1.09
204.92000000000002	1	11	2014-01-11	188	5239	1.09
131.89000000000001	1	12	2014-01-12	121	5118	1.09
146.06	1	13	2014-01-13	134	4984	1.09
87.2	1	14	2014-01-14	80	4904	1.09
89.38000000000001	1	15	2014-01-15	82	4822	1.09

## Sales Data:

The screenshot shows the IBM Cognos Analytics interface. The left sidebar displays a 'Data module' with a search bar and a tree view containing 'New data module', 'Navigation paths', 'Inventory M...ataset.csv', 'Revenue', '# M\_Data', '# Row Id', 'Year', 'Sales', 'Stock', and 'Price'. The 'Sales' item is selected. The main area shows a table with columns: Revenue, M\_Data, Row Id, Year, Sales, Stock, and Price. The table contains 15 rows of data for the year 2014, with dates ranging from 2014-01-01 to 2014-01-15.

Revenue	M_Data	Row Id	Year	Sales	Stock	Price
0	1	1	2014-01-01	0	4972	1.29
90.3	1	2	2014-01-02	70	4902	1.29
76.11	1	3	2014-01-03	59	4843	1.29
119.97	1	4	2014-01-04	93	4750	1.29
123.84	1	5	2014-01-05	96	4654	1.29
187.05	1	6	2014-01-06	145	4509	1.29
230.91	1	7	2014-01-07	179	4329	1.29
414.09000000000003	1	8	2014-01-08	321	4104	1.29
136.25	1	9	2014-01-09	125	4459	1.09
95.92	1	10	2014-01-10	88	5043	1.09
204.92000000000002	1	11	2014-01-11	188	5239	1.09
131.89000000000001	1	12	2014-01-12	121	5118	1.09
146.06	1	13	2014-01-13	134	4984	1.09
87.2	1	14	2014-01-14	80	4904	1.09
89.38000000000001	1	15	2014-01-15	82	4822	1.09

## Stock Data:

The screenshot shows the IBM Cognos Analytics interface. The left sidebar displays a 'Data module' with a search bar and a tree view containing 'New data module', 'Navigation paths', and 'Inventory M...ataset.csv'. The 'Inventory M...ataset.csv' is expanded, showing fields: Revenue, # M\_Data, # Row Id, Year, Sales, Stock, and Price. The 'Stock' field is selected. The main area shows a table with columns: Revenue, M\_Data, Row Id, Year, Sales, Stock, and Price. The table contains 15 rows of data.

Revenue	M_Data	Row Id	Year	Sales	Stock	Price
0	1	1	2014-01-01	0	4972	1.29
90.3	1	2	2014-01-02	70	4902	1.29
76.11	1	3	2014-01-03	59	4843	1.29
119.97	1	4	2014-01-04	93	4750	1.29
123.84	1	5	2014-01-05	96	4654	1.29
187.05	1	6	2014-01-06	145	4509	1.29
230.91	1	7	2014-01-07	179	4329	1.29
414.09000000000003	1	8	2014-01-08	321	4104	1.29
136.25	1	9	2014-01-09	125	4459	1.09
95.92	1	10	2014-01-10	88	5043	1.09
204.92000000000002	1	11	2014-01-11	188	5239	1.09
131.89000000000001	1	12	2014-01-12	121	5118	1.09
146.06	1	13	2014-01-13	134	4984	1.09
87.2	1	14	2014-01-14	80	4904	1.09
89.38000000000001	1	15	2014-01-15	82	4822	1.09

## Price Data:

The screenshot shows the IBM Cognos Analytics interface. The left sidebar displays a 'Data module' with a search bar and a tree view containing 'New data module', 'Navigation paths', and 'Inventory M...ataset.csv'. The 'Inventory M...ataset.csv' is expanded, showing fields: Revenue, # M\_Data, # Row Id, Year, Sales, Stock, and Price. The 'Price' field is selected. The main area shows a table with columns: M\_Data, Row Id, Year, Sales, Stock, and Price. The table contains 15 rows of data.

M_Data	Row Id	Year	Sales	Stock	Price
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
0000000003	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
0000000002	11	2014-01-11	188	5239	1.09
0000000001	12	2014-01-12	121	5118	1.09
1	13	2014-01-13	134	4984	1.09
1	14	2014-01-14	80	4904	1.09
0000000001	15	2014-01-15	82	4822	1.09

## Month Format Data:

The screenshot shows the 'Data format' dialog box for the 'M\_Data' column. The 'Format type' is set to 'Date'. The 'Date separator' is '/', the 'Date style' is 'Short', the 'Date ordering' is 'Default', and the 'Missing value characters' are '<empty>'. The dialog has 'Advanced options', 'Reset properties', 'Cancel', and 'OK' buttons.

Row Id	Year	Sales	Stock	Price
1	1/1/14	82	4822	1.09

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



## Revenue Format Data:

The screenshot shows the 'Data format' dialog box in IBM Cognos Analytics. The 'Column' is 'Revenue'. The 'Format type' is 'Number'. The 'Number of decimal places' is set to 0. The 'Negative sign symbol' is 'Default'. The 'Use thousands separator' is set to 'No'. The 'Negative sign position' is 'Default'. The 'Missing value characters' are '<empty>'. The dialog has 'Advanced options', 'Reset properties', 'Cancel', and 'OK' buttons.

Stock	Price
4972	1.29
4902	1.29
4843	1.29
4750	1.29
4654	1.29
4509	1.29
4329	1.29
4104	1.29
4459	1.09
5043	1.09
5239	1.09
5118	1.09
4984	1.09
4904	1.09
4822	1.09

The screenshot shows the 'Inventory Module' in IBM Cognos Analytics. The 'Data module' is 'Inventory M...ataset.csv'. The 'Grid' view is selected. The data is displayed in a table with columns: Revenue, M\_Data, Row Id, Year, Sales, Stock, and Price.

Revenue	M_Data	Row Id	Year	Sales	Stock	Price
0	1	1	1/1/14	0	4972	1
90	1	2	1/2/14	70	4902	1
76	1	3	1/3/14	59	4843	1
120	1	4	1/4/14	93	4750	1
124	1	5	1/5/14	96	4654	1
187	1	6	1/6/14	145	4509	1
231	1	7	1/7/14	179	4329	1
414	1	8	1/8/14	321	4104	1
136	1	9	1/9/14	125	4459	1
96	1	10	1/10/14	88	5043	1
205	1	11	1/11/14	188	5239	1
132	1	12	1/12/14	121	5118	1
146	1	13	1/13/14	134	4984	1
87	1	14	1/14/14	80	4904	1
89	1	15	1/15/14	82	4822	1

## Year Format Data:

The screenshot shows the IBM Cognos Analytics interface with the 'Data format' dialog box open for the 'Year' column. The dialog box has a 'Format type' dropdown set to 'Date'. Below it, there are four settings: 'Date separator' (set to '/'), 'Date style' (set to 'Short'), 'Date ordering' (set to 'Default'), and 'Missing value characters' (set to '<empty>'). At the bottom of the dialog are buttons for 'Advanced options', 'Reset properties', 'Cancel', and 'OK'. The background shows a data table with columns 'Revenue', 'M\_Data', 'Row Id', 'Year', 'Sales', 'Stock', and 'Price'.

Revenue	M_Data	Row Id	Year	Sales	Stock	Price
0	1	1	1/1/14	0	4972	1
90	1	2	1/2/14	70	4902	1
76	1	3	1/3/14	59	4843	1
120	1	4	1/4/14	93	4750	1
124	1	5	1/5/14	96	4654	1
187	1	6	1/6/14	145	4509	1
231	1	7	1/7/14	179	4329	1
414	1	8	1/8/14	321	4104	1
136	1	9	1/9/14	125	4459	1
96	1	10	1/10/14	88	5043	1
205	1	11	1/11/14	188	5239	1
132	1	12	1/12/14	121	5118	1
146	1	13	1/13/14	134	4984	1
87	1	14	1/14/14	80	4904	1
89	1	15	1/15/14	82	4822	1

The screenshot shows the IBM Cognos Analytics interface with the 'Data module' grid view. The table has columns 'Revenue', 'M\_Data', 'Row Id', 'Year', 'Sales', 'Stock', and 'Price'. The data is displayed in a grid format with 15 rows and 7 columns.

Revenue	M_Data	Row Id	Year	Sales	Stock	Price
0	1	1	1/1/14	0	4972	1
90	1	2	1/2/14	70	4902	1
76	1	3	1/3/14	59	4843	1
120	1	4	1/4/14	93	4750	1
124	1	5	1/5/14	96	4654	1
187	1	6	1/6/14	145	4509	1
231	1	7	1/7/14	179	4329	1
414	1	8	1/8/14	321	4104	1
136	1	9	1/9/14	125	4459	1
96	1	10	1/10/14	88	5043	1
205	1	11	1/11/14	188	5239	1
132	1	12	1/12/14	121	5118	1
146	1	13	1/13/14	134	4984	1
87	1	14	1/14/14	80	4904	1
89	1	15	1/15/14	82	4822	1

## Sales Format Data:

**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

Revenue	M_Data	Row Id	Year	Sales	Stock	Price
0	1	1	1/1/14	0	4972	1
90	1	2	1/2/14	70	4902	1
76	1	3	1/3/14	59	4843	1
120	1	4	1/4/14	93	4750	1
124	1	5	1/5/14	96	4654	1
187	1	6	1/6/14	145	4509	1
231	1	7	1/7/14	179	4329	1
414	1	8	1/8/14	321	4104	1
136	1	9	1/9/14	125	4459	1
96	1	10	1/10/14	88	5043	1
205	1	11	1/11/14	188	5239	1
132	1	12	1/12/14	121	5118	1
146	1	13	1/13/14	134	4984	1
87	1	14	1/14/14	80	4904	1
89	1	15	1/15/14	82	4822	1

## Stock Format Data:

The screenshot shows the IBM Cognos Analytics interface with the 'Data format' dialog box open for the 'Stock' column. The dialog box has a 'Column' field set to 'Stock' and a 'Format type' dropdown set to 'Number'. Below this, there are several settings: 'Number of decimal places' is set to 0, 'Negative sign symbol' is set to 'Default', 'Use thousands separator' is set to 'No', 'Negative sign position' is set to 'Default', and 'Missing value characters' is set to '<empty>'. There are 'Advanced options' and 'Reset properties' buttons at the bottom of the dialog. The background shows a table with columns 'Price' and 'Stock'.

Price	Stock
1.29	4972
1.29	4902
1.29	4843
1.29	4750
1.29	4654
1.29	4509
1.29	4329
1.29	4104
1.09	4459
1.09	5043
1.09	5239
1.09	5118
1.09	4984
1.09	4904
1.09	4822

The screenshot shows the IBM Cognos Analytics interface with a data grid view. The grid has columns: Revenue, M\_Data, Row Id, Year, Sales, Stock, and Price. The data is as follows:

Revenue	M_Data	Row Id	Year	Sales	Stock	Price
0	1	1	1/1/14	0	4972	1
90	1	2	1/2/14	70	4902	1
76	1	3	1/3/14	59	4843	1
120	1	4	1/4/14	93	4750	1
124	1	5	1/5/14	96	4654	1
187	1	6	1/6/14	145	4509	1
231	1	7	1/7/14	179	4329	1
414	1	8	1/8/14	321	4104	1
136	1	9	1/9/14	125	4459	1
96	1	10	1/10/14	88	5043	1
205	1	11	1/11/14	188	5239	1
132	1	12	1/12/14	121	5118	1
146	1	13	1/13/14	134	4984	1
87	1	14	1/14/14	80	4904	1
89	1	15	1/15/14	82	4822	1

The screenshot shows the IBM Cognos Analytics interface. A 'Data format' dialog box is open for the 'Price' column. The dialog has a 'Column: Price' header and a 'Format type: Number' dropdown. Below this, there are six settings, each with a help 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 are buttons for 'Advanced options', 'Reset properties', 'Cancel', and 'OK'. The background shows a data table with a 'Price' column containing values like 1.29, 1.09, and 4822.

The screenshot displays the IBM Cognos Analytics web application. The top navigation bar includes the IBM logo, the text "IBM Cognos Analytics with Watson", and a dropdown menu for the "Inventory Module". A search bar is located to the right of the navigation bar. Below the navigation bar, a sidebar on the left shows a "Data module" tree with the following structure:

- Inventory Module
  - Navigation paths
  - Inventory M...ataset.csv
    - Revenue
    - M\_Data
    - # Row Id
    - Year
    - Sales
    - Stock
    - Price

The main content area displays a table view of the "M\_Data" dataset. The table has the following columns: "M\_Data", "Row Id", "Year", "Sales", "Stock", and "Price". The data is organized into 15 rows, each representing a different date from 1/1/14 to 1/15/14. The "Sales" column shows values ranging from 70 to 188, and the "Stock" column shows values ranging from 4104 to 5118.

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

## Month Data Properties:

The screenshot shows the IBM Cognos Analytics interface. On the left, the 'Data module' pane displays a tree structure with 'Inventory Module' at the top, followed by 'Navigation paths', 'Inventory M...ataset.csv', 'Revenue', and 'M\_Data' (which is selected). The main area shows a table with columns: Revenue, M\_Data, Row Id, Year, and Sales. The 'Properties' pane on the right is open to the 'General' tab for the 'M\_Data' measure. The properties listed are: Label (M\_Data), Hide from users (toggle off), Expression (View or edit >), Usage (Attribute), Aggregate (Count Distinct), Data type (Integer), Represents (Time), Month (dropdown), Description (empty field with an info icon), and Comments (empty field with an info icon).

Revenue	M_Data	Row Id	Year	Sales
0	1	1	1/1/14	0
90	1	2	1/2/14	70
76	1	3	1/3/14	59
120	1	4	1/4/14	93
124	1	5	1/5/14	96
187	1	6	1/6/14	145
231	1	7	1/7/14	179
414	1	8	1/8/14	321
136	1	9	1/9/14	125
96	1	10	1/10/14	88
205	1	11	1/11/14	188
132	1	12	1/12/14	121
146	1	13	1/13/14	134
87	1	14	1/14/14	80
89	1	15	1/15/14	82

## Revenue Data Properties:

The screenshot shows the IBM Cognos Analytics interface. On the left, the 'Data module' pane displays a tree structure with 'Inventory Module' at the top, followed by 'Navigation paths', 'Inventory M...ataset.csv', 'Revenue' (which is selected), 'M\_Data', '# Row Id', 'Year', 'Sales', 'Stock', and 'Price'. The main area shows a table with columns: Revenue, M\_Data, Row Id, Year, and Sales. The 'Properties' pane on the right is open to the 'General' tab for the 'Revenue' measure. The properties listed are: Label (Revenue), Hide from users (toggle off), Expression (View or edit >), Usage (Measure), Calculate after aggregation (toggle off), Aggregate (Total), Data type (Decimal), Represents (Default), Lookup reference (None), and Description (empty field with an info icon).

Revenue	M_Data	Row Id	Year	Sales
0	1	1	1/1/14	0
90	1	2	1/2/14	70
76	1	3	1/3/14	59
120	1	4	1/4/14	93
124	1	5	1/5/14	96
187	1	6	1/6/14	145
231	1	7	1/7/14	179
414	1	8	1/8/14	321
136	1	9	1/9/14	125
96	1	10	1/10/14	88
205	1	11	1/11/14	188
132	1	12	1/12/14	121
146	1	13	1/13/14	134
87	1	14	1/14/14	80
89	1	15	1/15/14	82

## Year Data Format:

The screenshot shows the IBM Cognos Analytics interface with the 'Inventory Module' selected. The 'Data module' pane on the left shows a tree view with 'Year' selected. The main grid displays a table with columns: Revenue, M\_Data, Row Id, Year, and Sales. The 'Properties' pane on the right shows the 'General' tab for the 'Year' field, with settings for Label, Hide from users, Expression, Usage, Aggregate, Data type, Represents, Time, Year, Lookup reference, and Description.

Revenue	M_Data	Row Id	Year	Sales
0	1	1	1/1/14	0
90	1	2	1/2/14	70
76	1	3	1/3/14	59
120	1	4	1/4/14	93
124	1	5	1/5/14	96
187	1	6	1/6/14	145
231	1	7	1/7/14	179
414	1	8	1/8/14	321
136	1	9	1/9/14	125
96	1	10	1/10/14	88
205	1	11	1/11/14	188
132	1	12	1/12/14	121
146	1	13	1/13/14	134
87	1	14	1/14/14	80
89	1	15	1/15/14	82

## Sales Data Format:

The screenshot shows the IBM Cognos Analytics interface with the 'Inventory Module' selected. The 'Data module' pane on the left shows a tree view with 'Sales' selected. The main grid displays a table with columns: Year, Sales, Stock, and Price. The 'Properties' pane on the right shows the 'General' tab for the 'Sales' field, with settings for Label, Hide from users, Expression, Usage, Aggregate, Data type, Represents, Default, Lookup reference, and Description.

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

## Stock Data Properties:

The screenshot displays the IBM Cognos Analytics interface. On the left, the 'Data module' pane shows a tree view with 'Inventory Module' expanded, and 'Stock' selected. The main grid shows a table with columns: Year, Sales, Stock, and Price. The 'Properties' pane on the right is open to the 'General' tab, showing the following details for the 'Stock' measure:

- Label: Stock
- Hide from users: ☐
- Expression: View or edit >
- Usage: Measure
- Aggregate: Total
- Data type: Integer
- Represents: Default
- Lookup reference: None
- Description: (empty)
- Comments: (empty)

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

## Price Data Properties:

The screenshot displays the IBM Cognos Analytics interface. On the left, the 'Data module' pane shows a tree view with 'Inventory Module' expanded, and 'Price' selected. The main grid shows a table with columns: Year, Sales, Stock, and Price. The 'Properties' pane on the right is open to the 'General' tab, showing the following details for the 'Price' measure:

- Label: Price
- Hide from users: ☐
- Expression: View or edit >
- Usage: Measure
- Aggregate: Total
- Data type: Decimal
- Represents: Default
- Lookup reference: None
- Description: (empty)
- Comments: (empty)

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