

Project Development Phase

Delivery of Sprint-1

Team ID	PNT2022TMID04960
Project Title	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

Sprint-1:

Data Collection:

Download the Dataset

<https://drive.google.com/file/d/1nQ7bn1iO1e97s9HF9TZAyBv5lGQgLrZ5/view?usp=drivesdk>

Load the Dataset:

Tools used – IBM Cognos

IBM Cognos Analytics with Watson

1 item open

Analyzing Supermart Grocery Sales - Retail Analytics Dataset.csv

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
- Prepare data
Use data modules to clean and connect data from
- Exploration
Quickly find unbiased answers by identifying trends
- Present data
Create sophisticated, multi-page, multi-query

IBM Cognos Analytics with Watson

1 item open

Reading Supermart Grocery Sales - Retail Analytics Dataset.csv...

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IBM Cognos Analytics with Watson

1 item open

Search content

Supermart Grocery Sales - Retail Analytics Dataset.csv was uploaded successfully. [Hide Details](#)

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[Watch video](#) [Take a product tour](#)

Quick launch

- [Upload data](#)
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Use data modules to clean and connect data from
- [Exploration](#)
Quickly find unbiased answers by identifying trends
- [Present data](#)
Create sophisticated, multi-page, multi-query

Type here to search

27°C Cloudy 21:04 14-11-2022

Properties:

Date:

IBM Cognos Analytics with Watson

Learn More

Search content

Properties

Data module

Grid Relationships Custom tables

Search

New data module

- Navigation paths
- Supermart ...taset.csv
 - # Row Id
 - abc Order ID
 - abc Customer Name
 - abc Category
 - abc Sub Category
 - City
 - Order Date**
 - Region
 - Sales
 - Discount
 - Profit
 - State

T1	Sub Category	City	Order Date
	Masalas	Vellore	2017-08-11
	Health Drinks	Krishnagiri	2017-08-11
	Atta & Flour	Perambalur	2017-12-06
	Fresh Vegetables	Dharmapuri	2016-11-10
	Organic Staples	Ooty	2016-11-10
	Organic Staples	Dharmapuri	2015-09-06
	Fresh Vegetables	Trichy	2015-09-06
	Fresh Fruits	Ramanadhapuram	2015-09-06
	Biscuits	Tirunelveli	2015-09-06
	Cakes	Chennai	2015-09-06
	Chocolates	Karur	2015-09-06

Properties

General Navigation paths

Label Order Date

Hide from users ☐

Expression [View or edit](#)

Usage Identifier

Aggregate Count Distinct

Data type Date

Represents

Time

Date

Lookup reference

None

Type here to search

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City:

The screenshot shows the IBM Cognos Analytics interface. On the left, the 'Data module' pane lists various fields including 'City'. The main grid displays a table with columns: Sub Category, City, and Order Date. The 'City' column is highlighted. On the right, the 'Properties' panel shows the 'General' tab for the 'City' field, with options like 'Label', 'Hide from users', 'Expression', 'Usage', 'Aggregate', 'Data type', 'Represents', and 'Description'.

Sub Category	City	Order Date
Masalas	Vellore	2017-08-11
Health Drinks	Krishnagiri	2017-08-11
Atta & Flour	Perambalur	2017-12-06
Fresh Vegetables	Dharmapuri	2016-11-10
Organic Staples	Ooty	2016-11-10
Organic Staples	Dharmapuri	2015-09-06
Fresh Vegetables	Trichy	2015-09-06
Fresh Fruits	Ramanadhapuram	2015-09-06
Biscuits	Tirunelveli	2015-09-06
Cakes	Chennai	2015-09-06
Chocolates	Karur	2015-09-06

Name:

The screenshot shows the IBM Cognos Analytics interface. On the left, the 'Data module' pane lists various fields including 'Customer Name'. The main grid displays a table with columns: Row Id, Order ID, Customer Name, and Category. The 'Customer Name' column is highlighted. On the right, the 'Properties' panel shows the 'General' tab for the 'Customer Name' field, with options like 'Label', 'Hide from users', 'Expression', 'Usage', 'Aggregate', 'Data type', 'Represents', and 'Description'.

Row Id	Order ID	Customer Name	Category
1	OD1	Harish	Oil & M...
2	OD2	Sudha	Beverag
3	OD3	Hussain	Food Gr
4	OD4	Jackson	Fruits &
5	OD5	Ridhesh	Food Gr
6	OD6	Adavan	Food Gr
7	OD7	Jonas	Fruits &
8	OD8	Hafiz	Fruits &
9	OD9	Hafiz	Bakery
10	OD10	Krithika	Bakery
11	OD11	Ganesh	Snacks

ID:

Salse:

IBM Cognos Analytics with Watson

Search content

Data module

Grid

T1	Region	Sales	Discount
	North	1254	0.12
	South	749	0.18
	West	2360	0.21
	South	896	0.25
	South	2355	0.26
	West	2305	0.26
	West	826	0.33
	West	1847	0.32
	West	791	0.23
	West	1795	0.27
	West	1903	0.13

Properties

General

Label: Sales

Hide from users: ☐

Expression: [View or edit](#)

Usage: Measure

Aggregate: Total

Data type: Integer

Represents: Default

Lookup reference: None

Description: [?](#)

Profit:

IBM Cognos Analytics with Watson

Search content

Data module

Grid

T1	Discount	Profit	State
	0.12	401.28	Tamil Nadu
	0.18	149.8	Tamil Nadu
	0.21	165.2	Tamil Nadu
	0.25	89.6	Tamil Nadu
	0.26	918.45	Tamil Nadu
	0.26	322.7	Tamil Nadu
	0.33	346.92	Tamil Nadu
	0.32	147.76	Tamil Nadu
	0.23	181.93	Tamil Nadu
	0.27	484.65	Tamil Nadu
	0.13	437.69	Tamil Nadu

Properties

General

Label: Profit

Hide from users: ☐

Expression: [View or edit](#)

Usage: Measure

Aggregate: Total

Data type: Decimal

Represents: Default

Lookup reference: None

Description: [?](#)

Discount:

The screenshot shows the IBM Cognos Analytics with Watson interface. The main view is a grid table with the following data:

Region	Sales	Discount
North	1254	0.12
South	749	0.18
West	2360	0.21
South	896	0.25
South	2355	0.26
West	2305	0.26
West	826	0.33
West	1847	0.32
West	791	0.23
West	1795	0.27
West	1903	0.13

The right-hand pane shows the 'Properties' section for the 'Discount' column, with settings for Label, Hide from users, Expression, Usage, Aggregate, Data type, Represents, Default, Lookup reference, and Description.

Data Preparation:

The screenshot shows the 'Select sources' dialog in the IBM Cognos Analytics with Watson interface. The dialog lists several data sources, with 'Supermart Grocery Sales - Retail Analytics Dataset.csv' selected. The 'Filter by' section on the right shows options for Type (Folders, Packages, Files, Data sets, Modules) and Modified (All, Today, Yesterday, Past week, Past month).

Data Format:

Date:

IBM Cognos Analytics with Watson

Data module

Search

New data module

Navigation paths

Supermart ...taset.csv

Row Id

abc Order ID

abc Customer Name

abc Category

abc Sub Category

City

Order Date

Region

Sales

Discount

Profit

State

Data format

Column: Order Date

Format type: Date

Date separator: /

Date style: Full

Date ordering: Day, Month, Year

Missing value characters: <empty>

Advanced options

Reset properties

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IBM Cognos Analytics with Watson

Search content

Properties

Data module

Search

New data module

Navigation paths

Supermart ...taset.csv

Row Id

abc Order ID

abc Customer Name

abc Category

abc Sub Category

City

Order Date

Region

Sales

Discount

Profit

State

Grid

Relationships

Custom tables

T1	Sub Category	City	Order Date	Region	Sales	Discount
	Masalas	Vellore	11/Aug/2017	North	1254	0.12
	Health Drinks	Krishnagiri	11/Aug/2017	South	749	0.18
	Atta & Flour	Perambalur	6/Dec/2017	West	2360	0.21
	Fresh Vegetables	Dharmapuri	10/Nov/2016	South	896	0.25
	Organic Staples	Ooty	10/Nov/2016	South	2355	0.26
	Organic Staples	Dharmapuri	6/Sep/2015	West	2305	0.26
	Fresh Vegetables	Trichy	6/Sep/2015	West	826	0.33
	Fresh Fruits	Ramanadhapuram	6/Sep/2015	West	1847	0.32
	Biscuits	Tirunelveli	6/Sep/2015	West	791	0.23
	Cakes	Chennai	6/Sep/2015	West	1795	0.27
	Chocolates	Karur	6/Sep/2015	West	1903	0.13

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Discount:

IBM Cognos Analytics with Watson

Data format

Column: Discount

Format type: Percent

Number of decimal places: Default

Use thousands separator: Default

Missing value characters: <empty>

Advanced options

Reset properties

IBM Cognos Analytics with Watson

New data module

Search

Navigation paths

Supermart ...taset.csv

Row Id

Order ID

Customer Name

Category

Sub Category

City

Order Date

Region

Sales

Discount

Profit

State

Grid

Order Date	Region	Sales	Discount	Profit	State
11/Aug/2017	North	1,254	12%	₹401.28	Tan
11/Aug/2017	South	749	18%	₹149.80	Tan
6/Dec/2017	West	2,360	21%	₹165.20	Tan
10/Nov/2016	South	896	25%	₹89.60	Tan
10/Nov/2016	South	2,355	26%	₹918.45	Tan
6/Sep/2015	West	2,305	26%	₹322.70	Tan
6/Sep/2015	West	826	33%	₹346.92	Tan
6/Sep/2015	West	1,847	32%	₹147.76	Tan
6/Sep/2015	West	791	23%	₹181.93	Tan
6/Sep/2015	West	1,795	27%	₹484.65	Tan
6/Sep/2015	West	1,903	13%	₹437.69	Tan

Salse:

IBM Cognos Analytics with Watson

Data module

New data module

Navigation paths

- Supermart ...taset.csv
 - # Row Id
 - abc Order ID
 - abc Customer Name
 - abc Category
 - abc Sub Category
 - City
 - Order Date
 - Region
 - Sales
 - Discount
 - Profit
 - State

Data format

Column: Sales

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

IBM Cognos Analytics with Watson

New data module

Grid

Order Date	Region	Sales	Discount	Profit	State
11/Aug/2017	North	1,254	12%	₹401.28	Tan
11/Aug/2017	South	749	18%	₹149.80	Tan
6/Dec/2017	West	2,360	21%	₹165.20	Tan
10/Nov/2016	South	896	25%	₹89.60	Tan
10/Nov/2016	South	2,355	26%	₹918.45	Tan
6/Sep/2015	West	2,305	26%	₹322.70	Tan
6/Sep/2015	West	826	33%	₹346.92	Tan
6/Sep/2015	West	1,847	32%	₹147.76	Tan
6/Sep/2015	West	791	23%	₹181.93	Tan
6/Sep/2015	West	1,795	27%	₹484.65	Tan
6/Sep/2015	West	1,903	13%	₹437.69	Tan

Profit:

The screenshot displays the IBM Cognos Analytics interface. A 'Data format' dialog box is open for the 'Profit' column, showing the following settings:

- Column: Profit
- Format type: Currency
- Currency: ₹ (INR) - India, rupee
- Currency symbol: Default
- Number of decimal places: Default
- Use thousands separator: Default
- Currency display: Default
- Missing value characters: <empty>

Below the dialog, a data grid is visible with the following columns: Site, Region, Sales, Discount, Profit, and State. The data is as follows:

Site	Region	Sales	Discount	Profit	State
2017	North	1254	12%	₹401.28	Tamil Nadu
2017	South	749	18%	₹149.80	Tamil Nadu
2017	West	2360	21%	₹165.20	Tamil Nadu
2016	South	896	25%	₹89.60	Tamil Nadu
2016	South	2355	26%	₹918.45	Tamil Nadu
2015	West	2305	26%	₹322.70	Tamil Nadu
2015	West	826	33%	₹346.92	Tamil Nadu
2015	West	1847	32%	₹147.76	Tamil Nadu
2015	West	791	23%	₹181.93	Tamil Nadu
2015	West	1795	27%	₹484.65	Tamil Nadu
2015	West	1903	13%	₹437.69	Tamil Nadu

Prepared Data link:

[https://us1.ca.analytics.ibm.com/bi/?perspective=ca-](https://us1.ca.analytics.ibm.com/bi/?perspective=ca-modeller) [modeller HYPERLINK](https://us1.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=i75BE85C978D3441BB6A7E67B7835172F&objRef=i75BE85C978D3441BB6A7E67B7835172F&tid=2878668387_0ee41377573244b5af6b0128e465b636_sessionTemp)
["https://us1.ca.analytics.ibm.com/bi/?perspective=ca-](https://us1.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=i75BE85C978D3441BB6A7E67B7835172F&objRef=i75BE85C978D3441BB6A7E67B7835172F&tid=2878668387_0ee41377573244b5af6b0128e465b636_sessionTemp)
[modeller HYPERLINK](https://us1.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=i75BE85C978D3441BB6A7E67B7835172F&objRef=i75BE85C978D3441BB6A7E67B7835172F&tid=2878668387_0ee41377573244b5af6b0128e465b636_sessionTemp)
["https://us1.ca.analytics.ibm.com/bi/?perspective=ca-](https://us1.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=i75BE85C978D3441BB6A7E67B7835172F&objRef=i75BE85C978D3441BB6A7E67B7835172F&tid=2878668387_0ee41377573244b5af6b0128e465b636_sessionTemp)
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[441BB6A7E67B7835172F&tid=2878668387_0ee41377573244b5af6b0128e465b636_sessionTemp" id=i75BE85C978D3441BB6A7E67B7835172F HYPERLINK](https://us1.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=i75BE85C978D3441BB6A7E67B7835172F&objRef=i75BE85C978D3441BB6A7E67B7835172F&tid=2878668387_0ee41377573244b5af6b0128e465b636_sessionTemp)

["https://us1.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=i75BE85C978D3441BB6A7E67B7835172F&objRef=i75BE85C978D3441BB6A7E67B7835172F&tid=2878668387_0ee41377573244b5af6b0128e465b636_sessionTemp"](https://us1.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=i75BE85C978D3441BB6A7E67B7835172F&objRef=i75BE85C978D3441BB6A7E67B7835172F&tid=2878668387_0ee41377573244b5af6b0128e465b636_sessionTemp) & HYPERLINK

["https://us1.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=i75BE85C978D3441BB6A7E67B7835172F&objRef=i75BE85C978D3441BB6A7E67B7835172F&tid=2878668387_0ee41377573244b5af6b0128e465b636_sessionTemp"](https://us1.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=i75BE85C978D3441BB6A7E67B7835172F&objRef=i75BE85C978D3441BB6A7E67B7835172F&tid=2878668387_0ee41377573244b5af6b0128e465b636_sessionTemp)objRef=i75BE85C978D3_441BB6A7E67B7835172F HYPERLINK

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["https://us1.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=i75BE85C978D3441BB6A7E67B7835172F&objRef=i75BE85C978D3441BB6A7E67B7835172F&tid=2878668387_0ee41377573244b5af6b0128e465b636_sessionTemp"](https://us1.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=i75BE85C978D3441BB6A7E67B7835172F&objRef=i75BE85C978D3441BB6A7E67B7835172F&tid=2878668387_0ee41377573244b5af6b0128e465b636_sessionTemp)tid=2878668387_0ee41377573244b5af6b0128e465b636_sessionTemp