

Project Development Phase

Delivery of Sprint-1

Team ID	PNT2022TMID04961
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

Search content

Analyzing Supermart Grocery Sales - Retail Analytics Dataset.csv

Cancel Details

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

Type here to search

27°C Cloudy

21:04 14-11-2022

IBM Cognos Analytics with Watson

1 item open

Search content

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

Cancel Details

Hello. Welcome to Cognos Analytics with Watson.

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Watch video

Take a product tour

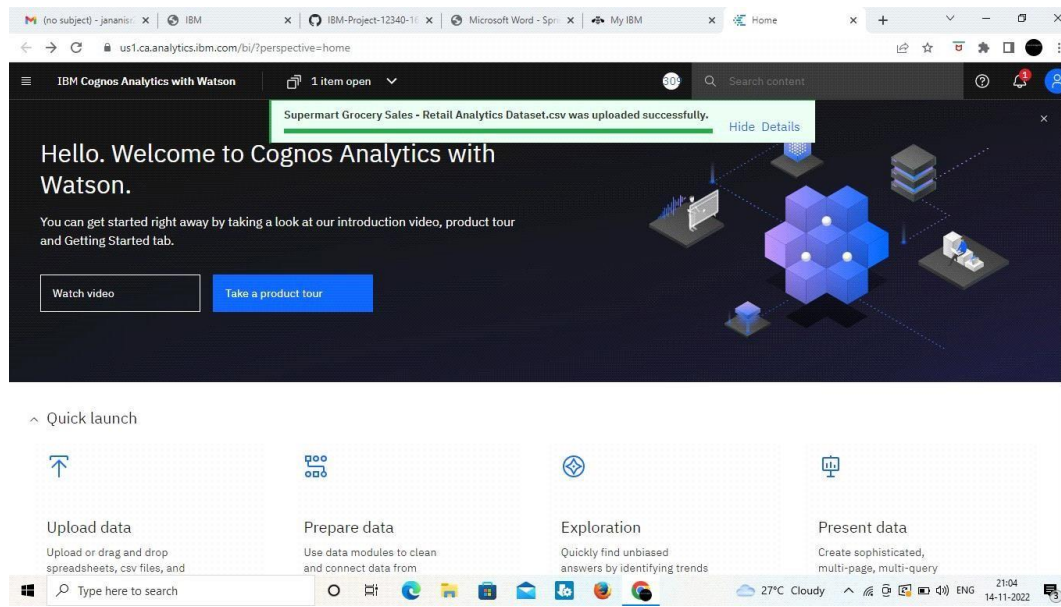
Quick launch

- 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

Type here to search

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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
 - Order ID
 - Customer Name
 - Category
 - Sub Category
 - City
 - Order Date
 - Region
 - Sales
 - Discount
 - Profit
 - State

TL	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

27°C Cloudy 21:44 14-11-2022

City:

The screenshot shows the IBM Cognos Analytics interface. On the left, the 'Data module' pane lists the columns: Row Id, Order ID, Customer Name, Category, Sub Category, City, Order Date, Region, Sales, Discount, Profit, and State. The 'City' column is selected. The main grid displays data with columns: Sub Category, City, and Order Date. The 'Properties' panel on the right shows the 'General' tab for the 'City' column, with fields for Label, Hide from users, Expression, Usage, Aggregate, Data type, Represents, Geographic location, City, 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	Kanur	2015-09-06

Name:

The screenshot shows the IBM Cognos Analytics interface. On the left, the 'Data module' pane lists the columns: Row Id, Order ID, Customer Name, Category, Sub Category, City, Order Date, Region, Sales, Discount, Profit, and State. The 'Customer Name' column is selected. The main grid displays data with columns: Row Id, Order ID, Customer Name, and Category. The 'Properties' panel on the right shows the 'General' tab for the 'Customer Name' column, with fields for Label, Hide from users, Expression, Usage, Aggregate, Data type, Represents, Default, 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:

IBM Cognos Analytics with Watson

Search content

Data module

Grid

Relationships

Custom tables

Properties

General

Navigation paths

Label

Row Id

Hide from users

Expression

Usage

Identifier

Aggregate

Count

Data type

Integer

Represents

Default

Description

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

Row Id	Order ID	Customer Name	Category
1	OD1	Harish	Oil & Me
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

IBM Cognos Analytics with Watson

Search content

Data module

Grid

Relationships

Custom tables

Properties

General

Navigation paths

Label

Order ID

Hide from users

Expression

Usage

Identifier

Aggregate

Count Distinct

Data type

Text

Represents

Default

Description

Row Id	Order ID	Customer Name	Category
1	OD1	Harish	Oil & Me
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

Salse:

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

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:

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

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 left sidebar shows a navigation tree with the following structure:

- 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

The right sidebar shows the properties for the selected 'Discount' field:

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

Data Preparation:

The screenshot shows the 'Select sources' dialog in IBM Cognos Analytics with Watson. The dialog lists the following sources:

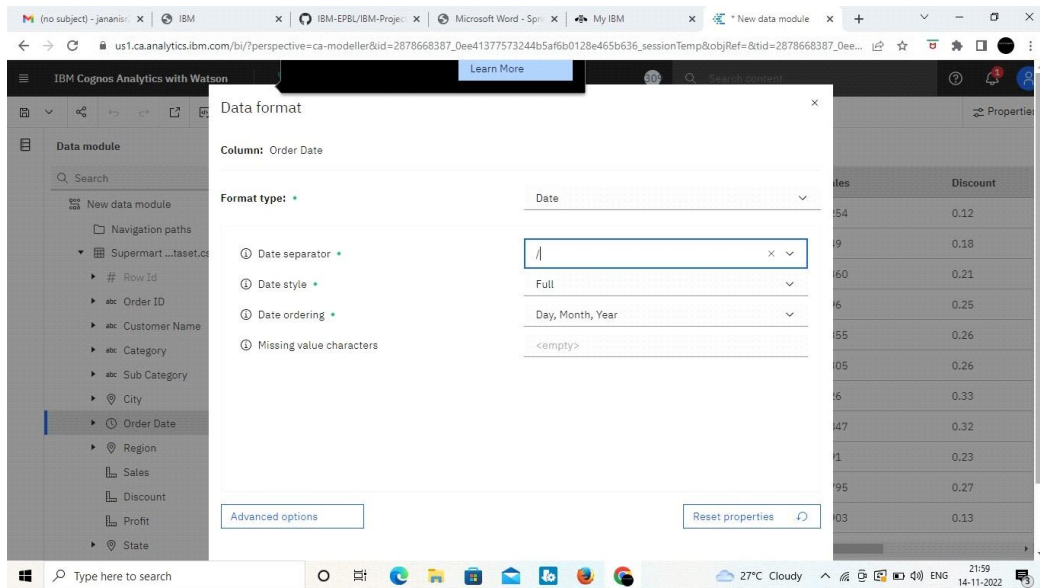
- 50_Startups.csv (9/2/2022, 8:58 AM)
- sales dataset (11/8/2022, 4:16 AM)
- startup_cleaned (9/2/2022, 8:58 AM)
- startup_dash (9/19/2022, 9:26 AM)
- startup_exp (9/19/2022, 9:30 AM)
- Supermart Grocery Sales - Retail Analytics Dataset.csv (11/14/2022, 9:34 AM)

The right sidebar shows the 'Filter by' options:

- Reset filters
- Type:
 - ☐ Folders
 - ☐ Packages
 - ☐ Files
 - ☐ Data sets
 - ☐ Modules
- Modified:
 - ☒ All
 - ☐ Today
 - ☐ Yesterday
 - ☐ Past week
 - ☐ Past month

Data Format:

Date:



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 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

Search

Navigation paths

Supermart ...taset.csv

Row Id

Order ID

Customer Name

Category

Sub Category

City

Order Date

Region

Sales

Discount

Profit

State

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 top screenshot shows the 'Data format' dialog box for the 'Profit' column. The 'Format type' is set to 'Currency'. The currency is '₹ (INR) - India, rupee'. The currency symbol is 'Default'. The number of decimal places is 'Default'. The use of thousands separator is 'Default'. The currency display is 'Default'. The missing value characters are '<empty>'. There are 'Advanced options' and 'Reset properties' buttons.

The bottom screenshot shows a data grid with the following columns: Site, Region, Sales, Discount, Profit, and State. The data rows are as follows:

Site	Region	Sales	Discount	Profit	State
1017	North	1254	12%	₹401.28	Tamil Nadu
1017	South	749	18%	₹149.80	Tamil Nadu
1017	West	2360	21%	₹165.20	Tamil Nadu
1016	South	896	25%	₹89.60	Tamil Nadu
1016	South	2355	26%	₹918.45	Tamil Nadu
1015	West	2305	26%	₹322.70	Tamil Nadu
1015	West	826	33%	₹346.92	Tamil Nadu
1015	West	1847	32%	₹147.76	Tamil Nadu
1015	West	791	23%	₹181.93	Tamil Nadu
1015	West	1795	27%	₹484.65	Tamil Nadu
1015	West	1903	13%	₹437.69	Tamil Nadu

Prepared Data link:

<https://us1.ca.analytics.ibm.com/bi/?perspective=ca-modeller> HYPERLINK
"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"id=i75BE85C978D3441BB6A7E67B7835172F HYPERLINK

[36_sessionTemp](#)