

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.

You can get started right away by taking a look at our introduction video, product tour and Getting Started tab.

Watch video

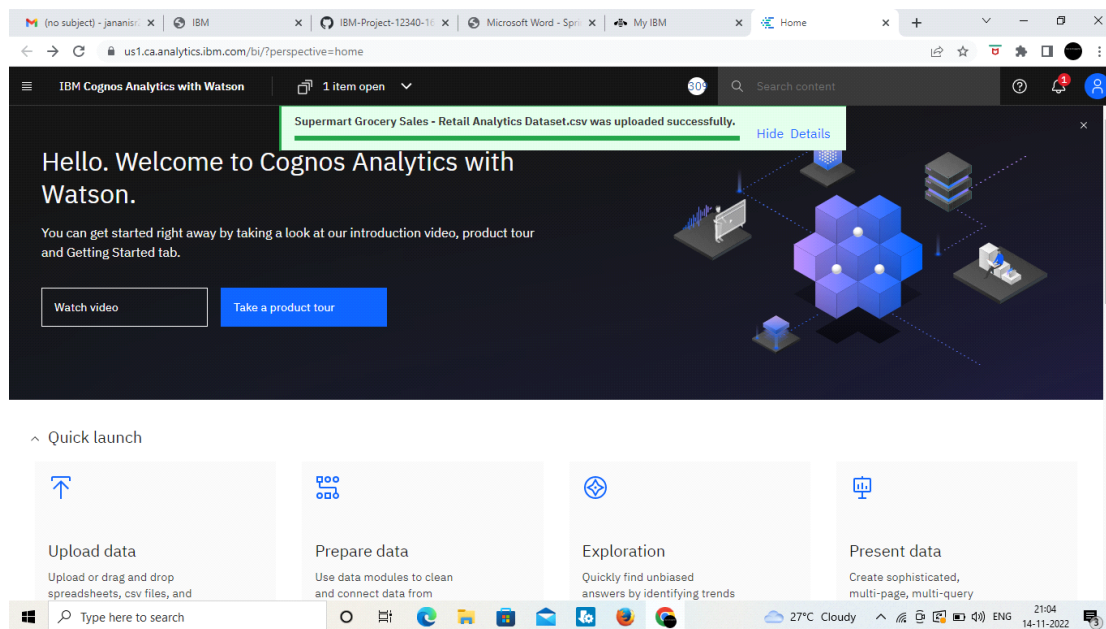
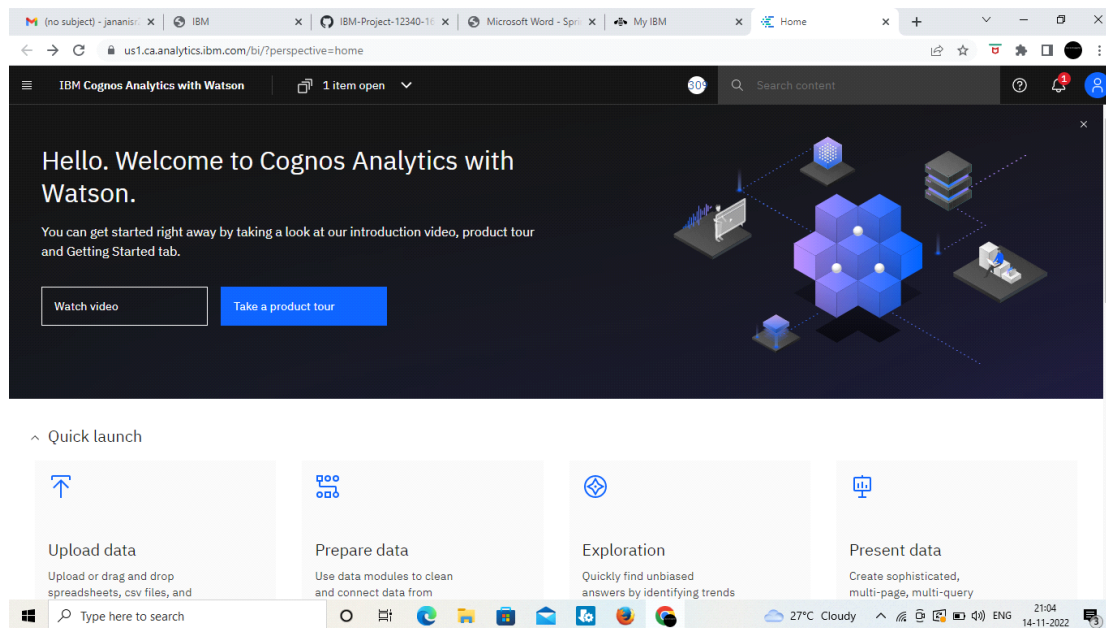
Take a product tour

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



Properties:

Date:

IBM Cognos Analytics with Watson

Search content

Properties

Data module

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

Grid

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

City:

IBM Cognos Analytics with Watson

Search content

Properties

Data module

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

Grid

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

City

Hide from users

Expression

View or edit

Usage

Identifier

Aggregate

Count Distinct

Data type

Text

Represents

Geographic location

City

Description

Name:

IBM Cognos Analytics with Watson

Search content

Properties

Data module

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

Grid

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

Relationships

Custom tables

Properties

General

Navigation paths

Label

Customer Name

Hide from users

Expression

View or edit

Usage

Attribute

Aggregate

Count Distinct

Data type

Text

Represents

Default

Description

ID:

IBM Cognos Analytics with Watson

Search content

Properties

Data module

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

Grid

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

Relationships

Custom tables

Properties

General

Navigation paths

Label

Row Id

Hide from users

Expression

View or edit

Usage

Identifier

Aggregate

Count

Data type

Integer

Represents

Default

Description

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

IBM Cognos Analytics with Watson

Search content

Properties

Data module

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

Grid

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

Relationships

Custom tables

Properties

General

Navigation paths

Label

Order ID

Hide from users

Expression

View or edit

Usage

Identifier

Aggregate

Count Distinct

Data type

Text

Represents

Default

Description

Salse:

IBM Cognos Analytics with Watson

Search content

Properties

Data module

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

Grid

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

Relationships

Custom tables

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:

The screenshot shows the IBM Cognos Analytics interface. On the left, the 'Data module' pane lists various fields including 'Profit'. The main grid displays data with columns 'Discount', 'Profit', and 'State'. The 'Profit' column is highlighted. On the right, the 'Properties' panel for the 'Profit' column is visible, showing settings like 'Label', 'Usage' (Measure), 'Aggregate' (Total), and 'Data type' (Decimal).

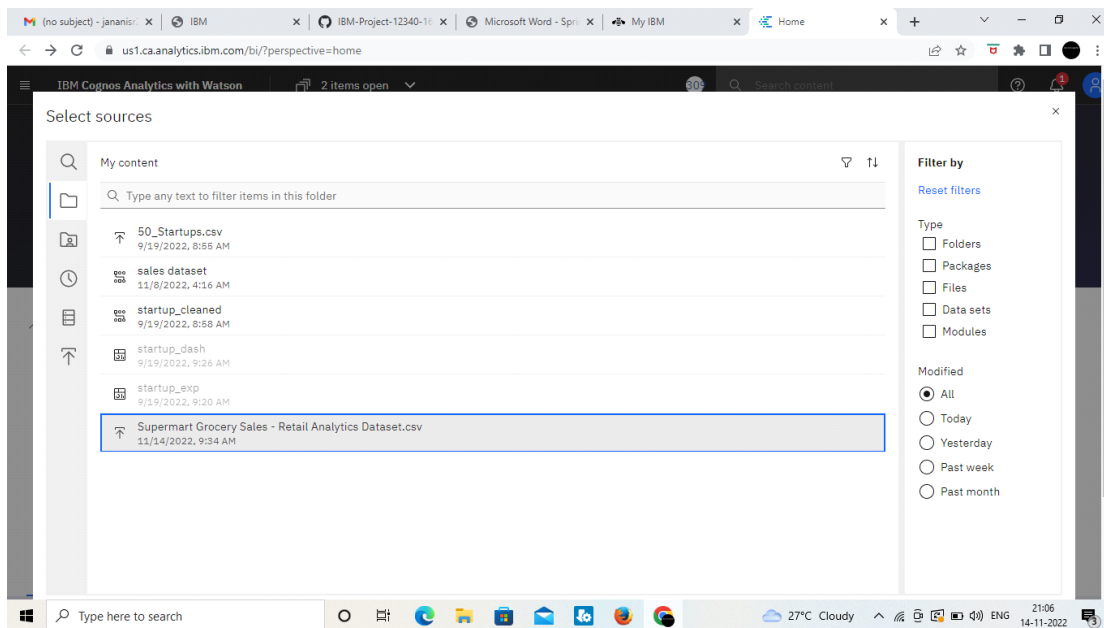
Discount	Profit	State
0.12	401.28	Tamil Nadu
0.18	149.8	Tamil Nadu
0.21	165.2	Tamil Nadu
0.25	89.6	Tamil Nadu
0.26	918.45	Tamil Nadu
0.26	322.7	Tamil Nadu
0.33	346.92	Tamil Nadu
0.32	147.76	Tamil Nadu
0.23	181.93	Tamil Nadu
0.27	484.65	Tamil Nadu
0.13	437.69	Tamil Nadu

Discount:

The screenshot shows the IBM Cognos Analytics interface. On the left, the 'Data module' pane lists various fields including 'Discount'. The main grid displays data with columns 'Region', 'Sales', and 'Discount'. The 'Discount' column is highlighted. On the right, the 'Properties' panel for the 'Discount' column is visible, showing settings like 'Label', 'Usage' (Measure), 'Aggregate' (Total), and 'Data type' (Decimal).

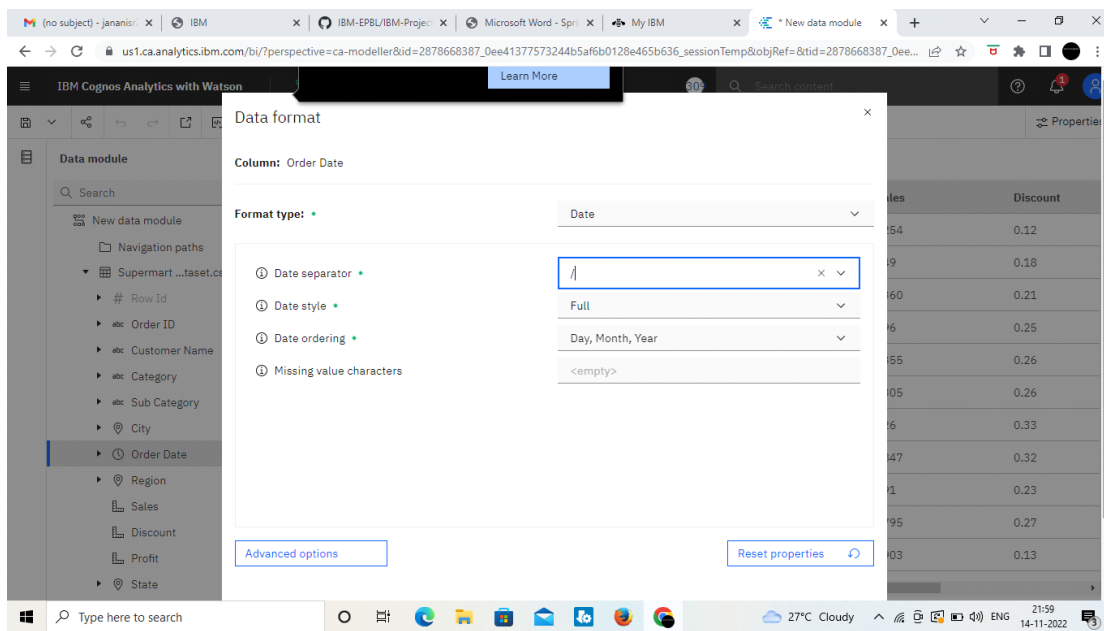
Region	Sales	Discount
North	1254	0.12
South	749	0.18
West	2360	0.21
South	896	0.25
South	2355	0.26
West	2305	0.26
West	826	0.33
West	1847	0.32
West	791	0.23
West	1795	0.27
West	1903	0.13

Data Preparation:



Data Format:

Date:



IBM Cognos Analytics with Watson

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

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

Type here to search

27°C Cloudy

ENG

22:01

14-11-2022

Discount:

IBM Cognos Analytics with Watson

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

Data format

Column: Discount

Format type: Percent

Number of decimal places: Default

Use thousands separator: Default

Missing value characters: <empty>

Advanced options

Reset properties

Discount
12%
18%
21%
25%
26%
26%
33%
32%
23%
27%
13%

Type here to search

27°C Cloudy

ENG

22:02

14-11-2022

IBM Cognos Analytics with Watson

New 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

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
uram 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

Type here to search

27°C Cloudy

22:31 14-11-2022

Salse:

IBM Cognos Analytics with Watson

New data module

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

Profit	State
₹401.28	Tan
₹149.80	Tan
₹165.20	Tan
₹89.60	Tan
₹918.45	Tan
₹322.70	Tan
₹346.92	Tan
₹147.76	Tan
₹181.93	Tan
₹484.65	Tan
₹437.69	Tan

Type here to search

27°C Cloudy

22:31 14-11-2022

IBM Cognos Analytics with Watson

New 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

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
uram 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

Type here to search

27°C Cloudy

22:31 14-11-2022

Profit:

IBM Cognos Analytics with Watson

Learn More

Search content

Data module

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

Data format

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>

Advanced options

Reset properties

Type here to search

27°C Cloudy

22:03 14-11-2022

The screenshot displays the IBM Cognos Analytics web application. The left sidebar shows a 'Data module' with a search bar and a list of fields: Row Id, Order ID, Customer Name, Category, Sub Category, City, Order Date, Region, Sales, Discount, Profit, and State. The 'Profit' field is selected. The main area shows a 'Grid' view of the data. The table has columns: Site, Region, Sales, Discount, Profit, and State. The data is filtered to show only 'West' regions. The bottom of the screen shows a Windows taskbar with the date 14-11-2022 and time 22:04.

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-modeller&id=i75BE85C978D3441BB6A7E67B7835172F&objRef=i75BE85C978D3441BB6A7E67B7835172F&tid=2878668387_0ee41377573244b5af6b0128e465b636_sessionTemp