

PROJECT DEVELOPMENT PHASE

SPRINT-2: DATA PRE PROCESSING AND EXPLORATORY ANALYSIS

DATE	18 November 2022
TEAM ID	PNT2022TMID43133
PROJECT NAME	Retail Store Stock Inventory Analytics

- Reading the CSV file :

Row ID	Order ID	Order Date	Ship Date	Ship Mode	Customer ID	Customer Name	Segment	Country	City	...	Postal Code	Region	Product ID	Category	Sub-Category	
0	1	CA-2016-152156	11/8/2016	11/11/2016	Second Class	CG-12520	Claire Gule	Consumer	United States	Henderson	...	42420	South	FUR-BO-10001798	Furniture	Bookcases
1	2	CA-2016-152156	11/8/2016	11/11/2016	Second Class	CG-12520	Claire Gule	Consumer	United States	Henderson	...	42420	South	FUR-CH-10000454	Furniture	Chairs
2	3	CA-2016-138688	6/12/2016	6/16/2016	Second Class	DV-13045	Darrin Van Huff	Corporate	United States	Los Angeles	...	90036	West	OFF-LA-10000240	Office Supplies	Labels

- Splitting the date to year month and day wise for better readability:

er te	Ship Date	Ship Mode	Customer ID	Customer Name	Segment	Country	City ...	Sales	Quantity	Discount	Profit	year	month	day	Order year	Order month	Order day
6-08	11/11/2016	Second Class	CG-12520	Claire Gute	Consumer	United States	Henderson ...	261.9600	2	0.00	41.9136	2016	11	8	2016	11	8
6-08	11/11/2016	Second Class	CG-12520	Claire Gute	Consumer	United States	Henderson ...	731.9400	3	0.00	219.5820	2016	11	8	2016	11	8
6-12	6/16/2016	Second Class	DV-13045	Darrin Van Huff	Corporate	United States	Los Angeles ...	14.6200	2	0.00	6.8714	2016	6	12	2016	6	12
5-11	10/18/2015	Standard Class	SO-20335	Sean O'Donnell	Consumer	United States	Fort Lauderdale ...	957.5775	5	0.45	-383.0310	2015	10	11	2015	10	11
5-11	10/18/2015	Standard Class	SO-20335	Sean O'Donnell	Consumer	United States	Fort Lauderdale ...	22.3680	2	0.20	2.5164	2015	10	11	2015	10	11

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5-11	10/18/2015	Standard Class	SO-20335	Sean O'Donnell	Consumer	United States	Fort Lauderdale ...	22.3680	2	0.20	2.5164	2015	10	11	2015	10	11

- **Reindexing and removing the unwanted columns in the data frame:**

Row ID	Order ID	Order year	Order month	Order day	Ship year	Ship month	Ship day	Ship Mode	Customer ID	...	Country	City	State	Category	Sub-category	Product Name	Quantity	
0	1	CA-2016-152156	2016	Nov	8	2016	Nov	11	Second Class	CG-12520	...	United States	Henderson	Kentucky	Furniture	Bookcases	Bush Somerset Collection Bookcase	2
1	2	CA-2016-152156	2016	Nov	8	2016	Nov	11	Second Class	CG-12520	...	United States	Henderson	Kentucky	Furniture	Chairs	Hon Deluxe Fabric Upholstered Stacking Chairs,...	3
2	3	CA-2016-138688	2016	Jun	12	2016	Jun	16	Second Class	DV-13045	...	United States	Los Angeles	California	Office Supplies	Labels	Self-Adhesive Address Labels for Typewriters b...	2
3	4	US-2015-108966	2015	Oct	11	2015	Oct	18	Standard Class	SO-20335	...	United States	Fort Lauderdale	Florida	Furniture	Tables	Bretford CR4500 Series Slim Rectangular Table	5
4	5	US-2015-108966	2015	Oct	11	2015	Oct	18	Standard Class	SO-20335	...	United States	Fort Lauderdale	Florida	Office Supplies	Storage	Eldon Fold 'N Roll Cart System	2

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□ Uploading the dataset into Cognos:

The screenshot displays the IBM Cognos Analytics web application. At the top, a navigation bar includes the IBM logo and a search bar. A banner at the top center reads "Maintenance: Scheduled maintenance completed. Click here for details." Below this, a "Watch video" button is visible. The main content area features a "Quick launch" section with four tiles: "Upload data" (with an upload icon), "Prepare data" (with a data icon), "Exploration" (with a magnifying glass icon), and "Present data" (with a presentation icon). Each tile contains a brief description of its function. At the bottom, a "Get started" button is present. The browser's address bar shows the URL "us3.ca.analytics.ibm.com/bi/?perspective=home". The Windows taskbar at the bottom indicates the time is 10:45 AM on 11/14/2022.