

Project Development Phase

Delivery of Sprint -1

Team ID	PNT2022TMID04942
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:

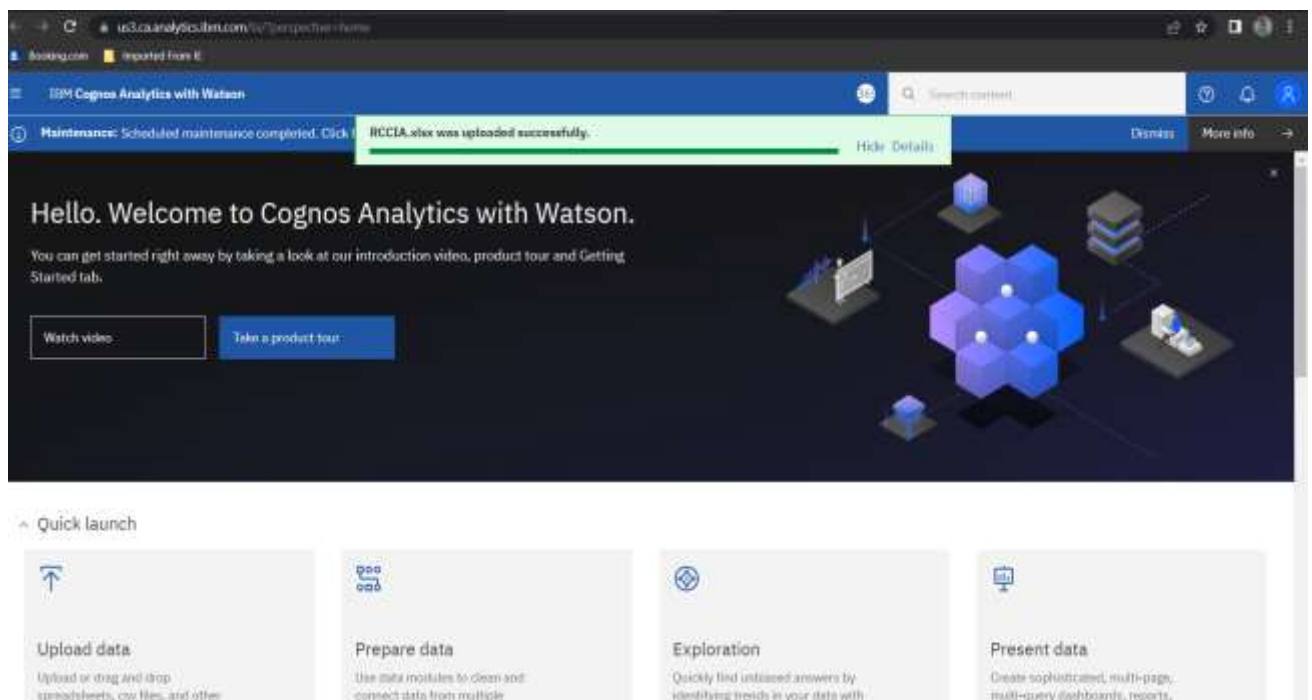
Download the Dataset

Dataset link:

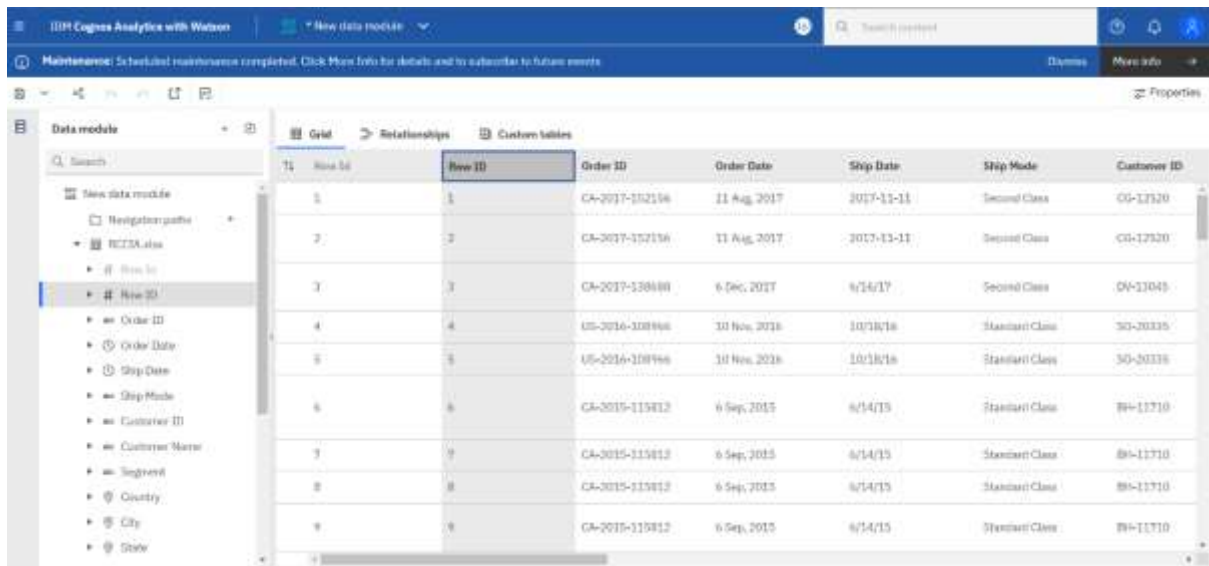
<https://drive.google.com/drive/u/0/folders/1veFM61MSbuDZNWS8ZESZqOLFRhFp14Jn>

Load the Dataset:

Tools used – **IBM Cognos**



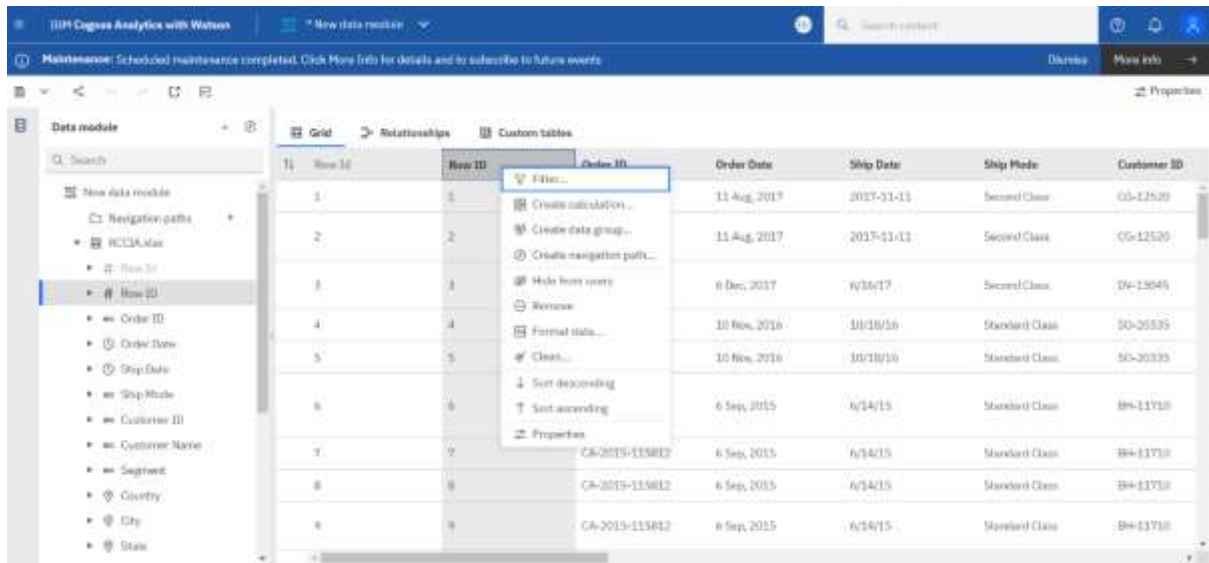
Cleaning Row ID :



The screenshot shows the IBM Cognos Analytics interface. The top navigation bar includes the title "IBM Cognos Analytics with Watson", a "New data module" button, a search bar, and user profile icons. A maintenance message is displayed at the top. The left sidebar shows the "Data module" structure with a tree view containing "New data module", "Navigation paths", "RC3A.klms", "Row ID", "Order ID", "Order Date", "Ship Date", "Ship Mode", "Customer ID", "Customer Name", "Segment", "Country", "City", and "State". The main area displays a table with the following columns: Row ID, Order ID, Order Date, Ship Date, Ship Mode, and Customer ID. The table contains 9 rows of data.

Row ID	Order ID	Order Date	Ship Date	Ship Mode	Customer ID
1	CA-2017-112156	11 Aug, 2017	2017-11-11	Second Class	CG-12520
2	CA-2017-112156	11 Aug, 2017	2017-11-11	Second Class	CG-12520
3	CA-2017-112156	6 Dec, 2017	6/14/17	Second Class	DN-13045
4	US-2016-108966	10 Nov, 2016	10/18/16	Standard Class	SO-20335
5	US-2016-108966	10 Nov, 2016	10/18/16	Standard Class	SO-20335
6	CA-2015-115812	6 Sep, 2015	6/14/15	Standard Class	BN-11718
7	CA-2015-115812	6 Sep, 2015	6/14/15	Standard Class	BN-11718
8	CA-2015-115812	6 Sep, 2015	6/14/15	Standard Class	BN-11718
9	CA-2015-115812	6 Sep, 2015	6/14/15	Standard Class	BN-11718

Removing Row ID with Duplicates:



The screenshot shows the same IBM Cognos Analytics interface as the previous one, but with a context menu open over the "Row ID" column. The menu options are: "Filter...", "Create calculation...", "Create data group...", "Create navigation path...", "Hide from users", "Remove", "Format data...", "Clear...", "Sort descending", "Sort ascending", and "Properties". The "Remove" option is highlighted.

Row ID	Order ID	Order Date	Ship Date	Ship Mode	Customer ID
1	CA-2017-112156	11 Aug, 2017	2017-11-11	Second Class	CG-12520
2	CA-2017-112156	11 Aug, 2017	2017-11-11	Second Class	CG-12520
3	CA-2017-112156	6 Dec, 2017	6/14/17	Second Class	DN-13045
4	US-2016-108966	10 Nov, 2016	10/18/16	Standard Class	SO-20335
5	US-2016-108966	10 Nov, 2016	10/18/16	Standard Class	SO-20335
6	CA-2015-115812	6 Sep, 2015	6/14/15	Standard Class	BN-11718
7	CA-2015-115812	6 Sep, 2015	6/14/15	Standard Class	BN-11718
8	CA-2015-115812	6 Sep, 2015	6/14/15	Standard Class	BN-11718
9	CA-2015-115812	6 Sep, 2015	6/14/15	Standard Class	BN-11718

Successfully Removed Row ID :

IBM Cognos Analytics with Watson

Search

Maintenance: Scheduled maintenance completed. Click [More Info](#) for details and to subscribe to future events.

Properties

Data module

Grid

Row ID	Order ID	Order Date	Ship Date	Ship Mode	Customer ID	Customer Name
1	CA-2017-152356	13 Aug, 2017	2017-11-11	Second Class	CG-12520	Claire Galt
2	CA-2017-152356	11 Aug, 2017	2017-11-11	Second Class	CG-12520	Claire Galt
3	CA-2017-138688	6 Dec, 2017	6/16/17	Second Class	DA-13045	Daren Van Huff
4	US-2016-108966	10 Nov, 2016	10/18/16	Standard Class	SO-20335	Sean O'Donnell
5	US-2016-108966	10 Nov, 2016	10/18/16	Standard Class	SO-20335	Sean O'Donnell
6	CA-2015-115812	6 Sep, 2015	6/14/15	Standard Class	BH-11710	Brinda Hoffman
7	CA-2015-115812	6 Sep, 2015	6/14/15	Standard Class	BH-11710	Brinda Hoffman
8	CA-2015-115812	6 Sep, 2015	6/14/15	Standard Class	BH-11710	Brinda Hoffman
9	CA-2015-115812	6 Sep, 2015	6/14/15	Standard Class	BH-11710	Brinda Hoffman

Cleaning Order ID :

IBM Cognos Analytics with Watson

Search

Maintenance: Scheduled maintenance completed. Click [More Info](#) for details and to subscribe to future events.

Properties

Data module

Grid

Row ID	Order ID	Order Date	Ship Date	Ship Mode	Customer ID	Customer Name
1	CA-2017-152356	13 Aug, 2017	2017-11-11	Second Class	CG-12520	Claire Galt
2	CA-2017-152356	11 Aug, 2017	2017-11-11	Second Class	CG-12520	Claire Galt
3	CA-2017-138688	6 Dec, 2017	6/16/17	Second Class	DA-13045	Daren Van Huff
4	US-2016-108966	10 Nov, 2016	10/18/16	Standard Class	SO-20335	Sean O'Donnell
5	US-2016-108966	10 Nov, 2016	10/18/16	Standard Class	SO-20335	Sean O'Donnell
6	CA-2015-115812	6 Sep, 2015	6/14/15	Standard Class	BH-11710	Brinda Hoffman
7	CA-2015-115812	6 Sep, 2015	6/14/15	Standard Class	BH-11710	Brinda Hoffman
8	CA-2015-115812	6 Sep, 2015	6/14/15	Standard Class	BH-11710	Brinda Hoffman
9	CA-2015-115812	6 Sep, 2015	6/14/15	Standard Class	BH-11710	Brinda Hoffman

Removing Order ID :

The screenshot shows the IBM Cognos Analytics interface. On the left, the 'Data module' pane lists various fields including Order ID, Order Date, Ship Date, Ship Mode, Customer ID, Customer Name, Segment, Country, City, State, Postal Code, Region, Product ID, Category, Sub-Category, and Product Name. The main grid view displays a table with columns: Row ID, Order ID, Ship Date, Ship Mode, Customer ID, and Customer Name. A context menu is open over the 'Order ID' column, with the 'Remove' option selected. The table contains 10 rows of data.

Row ID	Order ID	Ship Date	Ship Mode	Customer ID	Customer Name
1	CA-2015	2017-11-11	Second Class	CG-12520	Clare Gule
2	CA-2015	2017-11-11	Second Class	CG-12520	Clare Gule
3	CA-2015	6/28/17	Second Class	DN-13045	Darin Van Huff
4	US-2015	10/18/16	Standard Class	SO-20335	Sean O'Donnell
5	US-2015	10/18/16	Standard Class	SO-20335	Sean O'Donnell
6	CA-2015	6/14/15	Standard Class	BH-11710	Bronia Hoffman
7	CA-2015-115012	6 Sep, 2015	Standard Class	BH-11710	Bronia Hoffman
8	CA-2015-115012	6 Sep, 2015	Standard Class	BH-11710	Bronia Hoffman
9	CA-2015-115012	6 Sep, 2015	Standard Class	BH-11710	Bronia Hoffman
10	CA-2015-115012	6 Sep, 2015	Standard Class	BH-11710	Bronia Hoffman

Removing Ship Date:

The screenshot shows the IBM Cognos Analytics interface. On the left, the 'Data module' pane lists various fields including Ship Date, Ship Mode, Customer ID, Customer Name, Segment, Country, City, State, Postal Code, Region, Product ID, Category, Sub-Category, Product Name, Sales, Quantity, and Discount. The main grid view displays a table with columns: Row ID, Order Date, Ship Date, Ship Mode, Customer ID, Customer Name, and Segment. A context menu is open over the 'Ship Date' column, with the 'Remove' option selected. The table contains 10 rows of data.

Row ID	Order Date	Ship Date	Ship Mode	Customer ID	Customer Name	Segment
1	11 Aug, 2017	2017-		CG-12520	Clare Gule	Consumer
2	11 Aug, 2017	2017-		CG-12520	Clare Gule	Consumer
3	6 Dec, 2017	6/28/17		DN-13045	Darin Van Huff	Corporate
4	10 Nov, 2016	10/18		SO-20335	Sean O'Donnell	Consumer
5	10 Nov, 2016	10/18		SO-20335	Sean O'Donnell	Consumer
6	6 Sep, 2015	6/14/15		BH-11710	Bronia Hoffman	Consumer
7	6 Sep, 2015	6/14/15		BH-11710	Bronia Hoffman	Consumer
8	6 Sep, 2015	6/14/15	Standard Class	BH-11710	Bronia Hoffman	Consumer
9	6 Sep, 2015	6/14/15	Standard Class	BH-11710	Bronia Hoffman	Consumer
10	6 Sep, 2015	6/14/15	Standard Class	BH-11710	Bronia Hoffman	Consumer

Removing Customer ID :

The screenshot shows the IBM Cognos Analytics interface with a data module. The 'Data module' pane on the left lists various fields, including 'Customer ID'. The main grid displays a table with columns: Row ID, Order Date, Ship Mode, Customer, Segment, and Country. A context menu is open over the 'Customer' column, with the 'Remove' option selected. The 'Customer' column in the table contains values like 'CG-12520', 'CG-12521', 'DM-13040', 'SD-20336', 'SD-20335', 'BR-13710', 'BR-13711', 'BR-13710', 'BR-13711', and 'BR-13710'.

Row ID	Order Date	Ship Mode	Customer	Segment	Country
1	11 Aug. 2017	Second Class	CG-12520	Consumer	United States
2	11 Aug. 2017	Second Class	CG-12521	Consumer	United States
3	6 Dec. 2017	Second Class	DM-13040	Corporate	United States
4	10 Nov. 2016	Standard Class	SD-20336	Consumer	United States
5	10 Nov. 2016	Standard Class	SD-20335	Consumer	United States
6	6 Sep. 2015	Standard Class	BR-13710	Consumer	United States
7	6 Sep. 2015	Standard Class	BR-13711	Consumer	United States
8	6 Sep. 2015	Standard Class	BR-13710	Consumer	United States
9	6 Sep. 2015	Standard Class	BR-13711	Consumer	United States
10	6 Sep. 2015	Standard Class	BR-13710	Consumer	United States

Removing Customer Name:

The screenshot shows the IBM Cognos Analytics interface with a data module. The 'Data module' pane on the left lists various fields, including 'Customer Name'. The main grid displays a table with columns: Row ID, Order Date, Ship Mode, Customer, Country, and City. A context menu is open over the 'Customer' column, with the 'Remove' option selected. The 'Customer' column in the table contains values like 'Clem Gule', 'Clem Gule', 'Darin Vail', 'Seem O Don', 'Seem O Don', 'Brosius Hoffman', 'Brosius Hoffman', 'Brosius Hoffman', 'Brosius Hoffman', and 'Brosius Hoffman'.

Row ID	Order Date	Ship Mode	Customer	Country	City
1	11 Aug. 2017	Second Class	Clem Gule	United States	Henderson
2	11 Aug. 2017	Second Class	Clem Gule	United States	Henderson
3	6 Dec. 2017	Second Class	Darin Vail	United States	Los Angeles
4	10 Nov. 2016	Standard Class	Seem O Don	United States	Fort Lauderdale
5	10 Nov. 2016	Standard Class	Seem O Don	United States	Fort Lauderdale
6	6 Sep. 2015	Standard Class	Brosius Hoffman	United States	Los Angeles
7	6 Sep. 2015	Standard Class	Brosius Hoffman	United States	Los Angeles
8	6 Sep. 2015	Standard Class	Brosius Hoffman	United States	Los Angeles
9	6 Sep. 2015	Standard Class	Brosius Hoffman	United States	Los Angeles
10	6 Sep. 2015	Standard Class	Brosius Hoffman	United States	Los Angeles

Removing Postal ID:

The screenshot shows the IBM Cognos Analytics interface with a data module named 'New data module'. The 'Data module' pane on the left lists various fields, including 'Postal Code'. The main grid view displays a table with columns: Country, City, State, Postal ID, and Product ID. A context menu is open over the 'Postal ID' column, with the 'Remove' option selected.

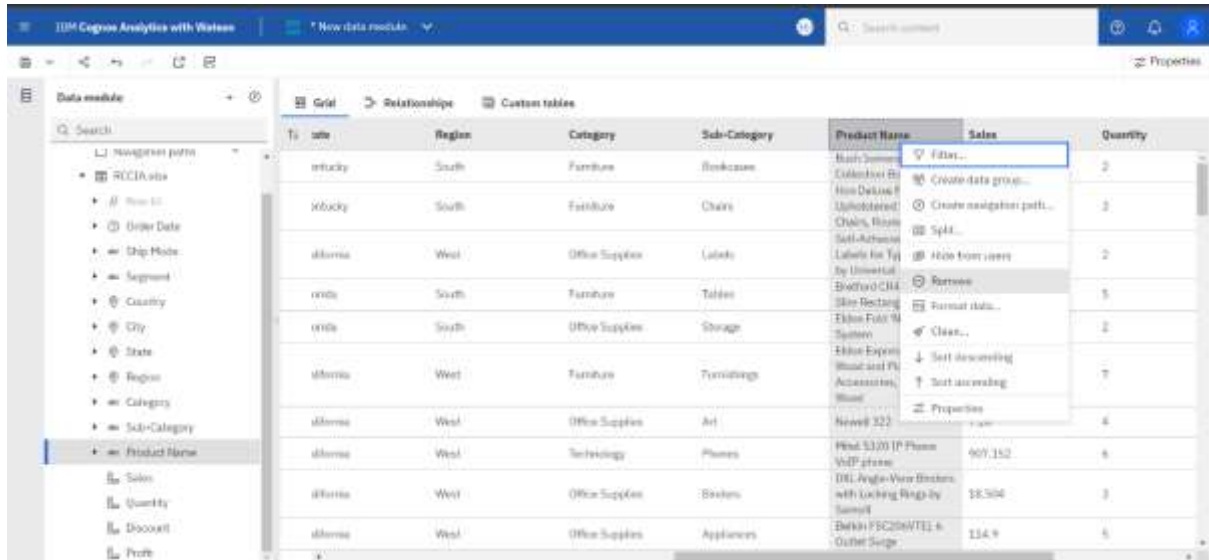
Country	City	State	Postal ID	Product ID
United States	Henderson	Kentucky	424	FJR-BD-10001798
United States	Henderson	Kentucky	424	FJR-CH-10000454
United States	Los Angeles	California	900	OFF-LA-10000240
United States	Fort Lauderdale	Florida	333	FJR-TA-10000577
United States	Fort Lauderdale	Florida	333	OFF-ST-10000768
United States	Los Angeles	California	900	FJR-FU-10001487
United States	Los Angeles	California	90002	OFF-AR-10000883
United States	Los Angeles	California	90002	TLC-PH-10002275
United States	Los Angeles	California	90002	OFF-BI-10000950
United States	Los Angeles	California	90002	OFF-AP-10000890

Removing Product ID:

The screenshot shows the IBM Cognos Analytics interface with a data module named 'New data module'. The 'Data module' pane on the left lists various fields, including 'Product ID'. The main grid view displays a table with columns: State, Region, Product ID, Sub-Category, Product Name, and Sales. A context menu is open over the 'Product ID' column, with the 'Remove' option selected.

State	Region	Product ID	Sub-Category	Product Name	Sales
Kentucky	South	FJR-BD-10001798	Bookcases	Boch Somerset Collection Bookcase	261.79
Kentucky	South	FJR-CH-10000454	Chairs	Hart Deluxe Fabric Upholstered Stacking Chairs, Rounded Back	723.94
California	West	OFF-LA-10000240	Labels	Self-Adhesive Address Labels for Universal	14.62
Florida	South	FJR-TA-10000577	Tables	Bretford CR4000 Series Slim Rectangular Table	457.5775
Florida	South	OFF-ST-10000768	Storage	Eikon Pro™ N Roll Cart System	22.368
California	West	FJR-FU-10001487	Furniture	Eikon Expressions Wood and Plastic Desk Accessories, Cherry Wood	48.86
California	West	OFF-AR-10000883	Office Supplies	Nowell 332	7.28
California	West	TLC-PH-10002275	Technology	Motor 5320 DP Phone VDP phone	907.152
California	West	OFF-BS-10000950	Office Supplies	OXL Angle-View Stickers with Locking Rings by Sonnet	18.504
California	West	OFF-AP-10000890	Office Supplies	Belden FCC000VTEL 5 Outlet Surge	114.9

Removing Product Name:



The screenshot shows the IBM Cognos Analytics interface. On the left, the 'Data module' pane lists various fields: Row ID, Order Date, Ship Mode, Segment, Country, City, State, Region, Category, Sub-Category, Product Name, Sales, Quantity, Discount, and Profit. The 'Product Name' field is selected. The main area displays a table with columns: Title, Region, Category, Sub-Category, Product Name, Sales, and Quantity. A context menu is open over the 'Product Name' column, showing options: Filter..., Create data group..., Create navigation path..., Split..., Hide from users, Remove, Format data..., Clear..., Sort descending, Sort ascending, and Properties. The 'Remove' option is highlighted.

Title	Region	Category	Sub-Category	Product Name	Sales	Quantity
Bookcase	South	Furniture	Bookcase	Bookcase		2
Chair	South	Furniture	Chair	Chair		2
Label	West	Office Supplies	Label	Label		2
Table	South	Furniture	Table	Table		5
Storage	South	Office Supplies	Storage	Storage		2
Furniture	West	Furniture	Furniture	Furniture		7
Art	West	Office Supplies	Art	Art		4
Phones	West	Technology	Phones	Phones	607.152	6
Books	West	Office Supplies	Books	Books	18.504	3
Appliances	West	Office Supplies	Appliances	Appliances	114.9	6

Prepared Data Link:

https://us3.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=i8A99E4F5C2E64BFFA5FC7C6FAA5B8D87&objRef=i8A99E4F5C2E64BFFA5FC7C6FAA5B8D87&tid=96035703_78762b3990ff4a6d85ed7aedd24a78d1_sessionTemp