



Bansilal Ramnath Agarwal Charitable Trust's
Vishwakarma Institute of Information Technology
Department of
Artificial Intelligence and Data Science

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Class: SY-B tech

Division: B

Roll No: 272028

Semester: 3rd

Academic Year: 2022-2023

Subject Name & Code: ADUA21206 - Data Visualization

Title of Assignment: Geospatial Visualization

Date of Performance: 13/10/2022

Date of Submission: 14/10/2022

Aim: Generate a geospatial visualization, plot the visualization graph.

Problem Statement: Download data set from Kaggle/Tableau/data world. Visualize the dataset using hierarchical category: Tree diagrams and ring charts/sun Brust.

Theory/Writeup:

Assignment no. 7

1. What is spatial data?

→ spatial data is any data with a direct or indirect reference to a specific location or geographical area. spatial data is often referred to as geospatial data or geographic information. Sometimes called geospatial data or geographic coordinate system. However, spatial data is much more than a spatial component of a map.

2. What is shape file and its use.

→ A shapefile is an ESRI vector data storage format for storing the location, shape, and attributes of geographic features. It is stored as a set of related files and contain one feature class. It is used for storing the location, shapes, and attributes of geographic features.

3. step in creation of the viz:

→ Firstly we open spatial file and drop it in tableau. Then we double click on geometry by which map is displayed in front of screen. Afterward, we do changes in map background and then again go toward data source. After that, we open the super store and connect ourselves with our hix state viz file followed by all this then we select profit and select state abbreviation to drop in colour section and followed by state, in label section. Thus, we successfully created Hix maps and able to see geospatial visualization.

Ship Date	Ship Mode	Customer ID	Customer Name	Segment	Country	City	State	Postal Code	Region	Product ID	Category	Sub-Category	Product Name	Sales	Quantity	Discount	Profit
11/11/2016	Second Class	CG-12520	Claire Gute	Consumer	United States	Henderson	Kentucky	42420	South	FUR-BO-10 Laptops	Dell	Bush Somerset Collec	261.96	2	0	41.9136	
11/11/2016	Second Class	CG-12520	Claire Gute	Consumer	United States	Henderson	Kentucky	42420	South	FUR-CH-10 Laptops	HP	Hon Deluxe Fabric Up	731.94	3	0	219.582	
6/16/2016	Second Class	DV-13045	Darrin Van Huff	Corporate	United States	Los Angeles	California	90036	West	OFF-LA-10C Mobile Phones	HTC	Self-Adhesive Address	14.62	2	0	6.8714	
10/18/2019	Standard Class	SO-20335	Sean O'Donnell	Consumer	United States	Fort Lauderdale	Florida	33311	South	FUR-TA-10 Laptops	Lenovo	Bretford CR4500 Seri	957.5775	5	0.45	-383.031	
10/18/2019	Standard Class	SO-20335	Sean O'Donnell	Consumer	United States	Fort Lauderdale	Florida	33311	South	OFF-ST-10C Mobile Phones	OnePlus	Eldon Fold 'N Roll CLG	22.368	2	0.2	2.5164	
6/14/2018	Standard Class	BH-11710	DataFlair	Consumer	United States	Los Angeles	California	90032	West	FUR-FU-10 Laptops	Asus	Eldon Expressions Wo	48.86	7	0	14.1694	
6/14/2018	Standard Class	BH-11710	DataFlair	Consumer	United States	Los Angeles	California	90032	West	OFF-AR-10I Mobile Phones	LG	Newell 322	7.28	4	0	1.9656	
6/14/2018	Standard Class	BH-11710	DataFlair	Consumer	United States	Los Angeles	California	90032	West	TEC-PH-10I Cameras	Sony	Mitel S320 IP Phone V	907.152	6	0.2	90.7152	
6/14/2018	Standard Class	BH-11710	DataFlair	Consumer	United States	Los Angeles	California	90032	West	OFF-BI-100 Mobile Phones	iPhone	DXL Angle-View iPhor	18.504	3	0.2	5.7825	
6/14/2018	Standard Class	BH-11710	DataFlair	Consumer	United States	Los Angeles	California	90032	West	OFF-AP-10I Mobile Phones	Samsung	Belkin F5C206VTEL 6	114.9	5	0	34.47	
6/14/2018	Standard Class	BH-11710	DataFlair	Consumer	United States	Los Angeles	California	90032	West	FUR-TA-10I Laptops	Lenovo	Chromcraft Rectangu	1706.184	9	0.2	85.3092	
6/14/2018	Standard Class	BH-11710	DataFlair	Consumer	United States	Los Angeles	California	90032	West	TEC-PH-10I Cameras	Sony	Konftel 250 Conferen	911.424	4	0.2	68.3568	
4/20/2017	Standard Class	AA-10480	Andrew Allen	Consumer	United States	Concord	North Carolina	28027	South	OFF-PA-10I Mobile Phones	Pixel	Xerox 1967	15.552	3	0.2	5.4432	
12/10/2016	Standard Class	IM-15070	Irene Maddox	Consumer	United States	Seattle	Washington	98103	West	OFF-BI-100 Mobile Phones	iPhone	Fellowes PB200 Plasti	407.976	3	0.2	132.5922	
11/26/2019	Standard Class	HP-14815	Harold Pawlan	Home Office	United States	Fort Worth	Texas	76106	Central	OFF-AP-10I Mobile Phones	Samsung	Holmes Replacement	68.81	5	0.8	-123.858	
11/26/2019	Standard Class	HP-14815	Harold Pawlan	Home Office	United States	Fort Worth	Texas	76106	Central	iPhone	Storex DuraTech Rec	2.544	3	0.8	-3.816		
11/18/2018	Standard Class	PK-19075	Pete Kriz	Consumer	United States	Madison	Wisconsin	53711	Central	OFF-ST-10C Mobile Phones	OnePlus	Stur-D-Stor Shelving	665.88	6	0	13.1716	
5/15/2018	Second Class	AG-10270	Alejandro Grove	Consumer	United States	West Jordan	Utah	84084	West	OFF-ST-10C Mobile Phones	OnePlus	Fellowes Super Stor/C	55.5	2	0	9.99	
9/1/2018	Second Class	ZD-21925	Zuschuss Donatell	Consumer	United States	San Francisco	California	94109	West	OFF-AR-10I Mobile Phones	LG	Newell 341	8.56	2	0	2.4824	
9/1/2018	Second Class	ZD-21925	Zuschuss Donatell	Consumer	United States	San Francisco	California	94109	West	TEC-PH-10I Cameras	Sony	Cisco SPA 501G IP Phc	213.48	3	0.2	16.011	
9/1/2018	Second Class	ZD-21925	Zuschuss Donatell	Consumer	United States	San Francisco	California	94109	West	OFF-BI-100 Mobile Phones	iPhone	Wilson Jones Hanging	22.72	4	0.2	7.384	
12/13/2016	Standard Class	KB-16585	Ken Black	Corporate	United States	Fremont	Nebraska	68025	Central	OFF-AR-10I Mobile Phones	LG	Newell 318	19.46	7	0	5.0596	
12/13/2016	Standard Class	KB-16585	Ken Black	Corporate	United States	Fremont	Nebraska	68025	Central	OFF-AP-10I Mobile Phones	Samsung	Acco Six-Outlet Powe	60.34	7	0	15.6884	
7/18/2017	Second Class	SF-20065	Sandra Flanagan	Consumer	United States	Philadelphia	Pennsylvania	19140	East	FUR-CH-10 Laptops	HP	Global Deluxe Stackin	71.372	2	0.3	-1.0196	
9/30/2019	Standard Class	EB-13870	Emily Burns	Consumer	United States	Orem	Utah	84057	West	FUR-TA-10 Laptops	Lenovo	Bretford CR4500 Seri	1044.63	3	0	240.2649	
1/20/2016	Second Class	EH-13945	Eric Hoffmann	Consumer	United States	Los Angeles	California	90049	West	OFF-BI-100 Mobile Phones	iPhone	Wilson Jones Active U	11.648	2	0.2	4.2224	
1/20/2016	Second Class	EH-13945	Eric Hoffmann	Consumer	United States	Los Angeles	California	90049	West	TEC-AC-10I Cameras	Nikon	Imation 8GB Mini Tra	90.57	3	0	11.7741	
9/21/2019	Standard Class	TB-21520	Tracy Blumstein	Consumer	United States	Philadelphia	Pennsylvania	19140	East	FUR-BO-10 Laptops	Dell	Riverside Palais Royal	3083.43	7	0.5	-1665.0522	
9/21/2019	Standard Class	TB-21520	Tracy Blumstein	Consumer	United States	Philadelphia	Pennsylvania	19140	East	OFF-BI-100 Mobile Phones	iPhone	Avery Recycled Flexi-V	9.618	2	0.7	-7.0532	
9/21/2019	Standard Class	TB-21520	Tracy Blumstein	Consumer	United States	Philadelphia	Pennsylvania	19140	East	FUR-FU-10 Laptops	Asus	Howard Miller 13-3/4	124.2	3	0.2	15.525	
9/21/2019	Standard Class	TB-21520	Tracy Blumstein	Consumer	United States	Philadelphia	Pennsylvania	19140	East	OFF-EN-10I Mobile Phones	Motorola	Poly String Tie Motor	3.264	2	0.2	1.1016	
9/21/2019	Standard Class	TB-21520	Tracy Blumstein	Consumer	United States	Philadelphia	Pennsylvania	19140	East	OFF-AR-10I Mobile Phones	LG	BOSTON Model 1800	86.304	6	0.2	9.7092	
9/21/2019	Standard Class	TB-21520	Tracy Blumstein	Consumer	United States	Philadelphia	Pennsylvania	19140	East	OFF-BI-100 Mobile Phones	iPhone	Acco Pressboard Cove	6.858	6	0.7	-5.715	
9/21/2019	Standard Class	TB-21520	Tracy Blumstein	Consumer	United States	Philadelphia	Pennsylvania	19140	East	OFF-AR-10I Mobile Phones	LG	Lumber Crayons	15.76	2	0.2	3.546	
10/23/2017	Second Class	MA-17560	Matt Abelman	Home Office	United States	Houston	Texas	77095	Central	OFF-PA-10I Mobile Phones	Pixel	Easy-staple Pixel	29.472	3	0.2	9.9468	
12/10/2016	First Class	GH-14485	Gene Hale	Corporate	United States	Richardson	Texas	75080	Central	TEC-PH-10I Cameras	Sony	GE 30524EE4	1097.544	7	0.2	123.4737	
12/10/2016	First Class	GH-14485	Gene Hale	Corporate	United States	Richardson	Texas	75080	Central	FUR-FU-10 Laptops	Asus	Electrix Architect's Cl	190.92	5	0.6	-147.963	

Managers

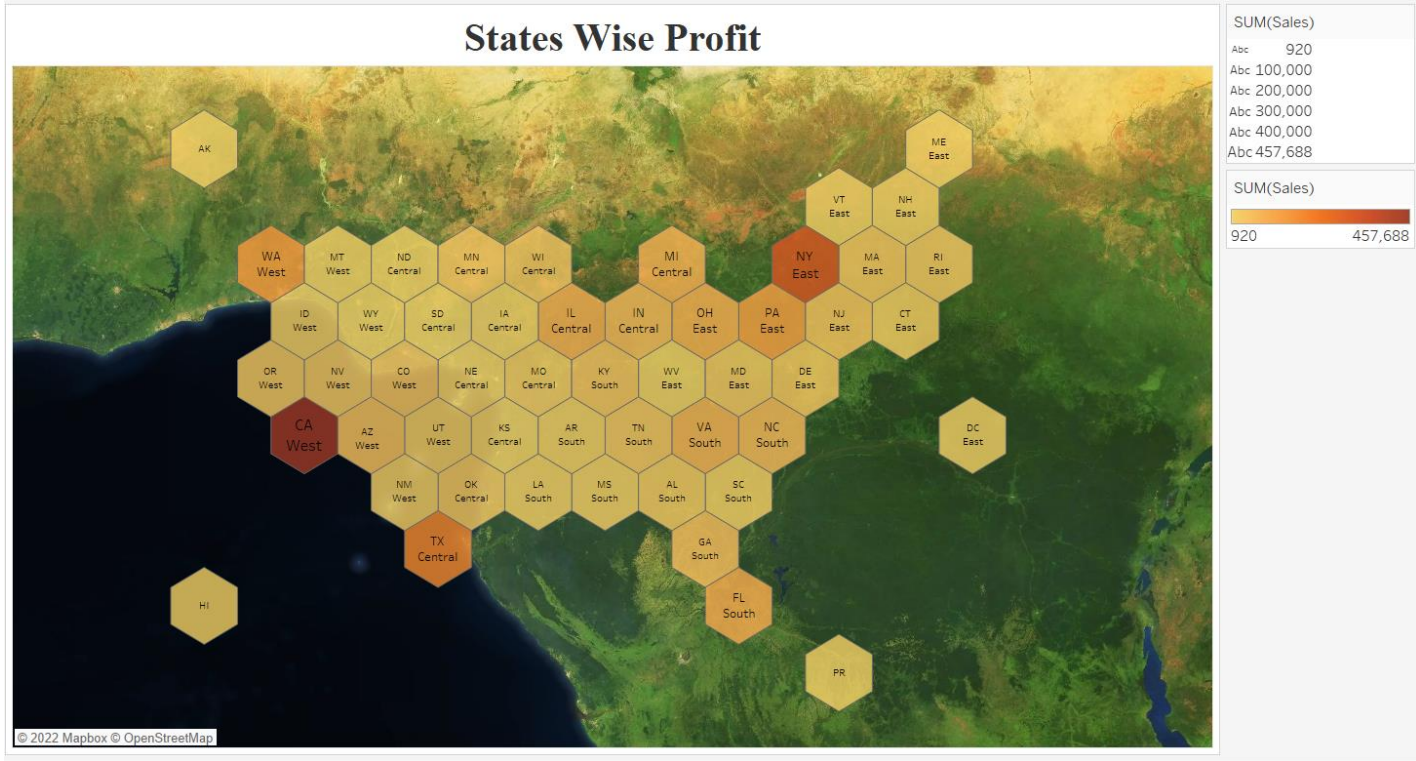


Tableau Public Profile Link:

1.https://public.tableau.com/app/profile/siddhesh.dilip.khairnar/viz/B_28_SiddheshKhairnarDVASS7/Sheet1