

Bansilal Ramnath Agarwal Charitable Trust's

Vishwakarma Institute of Information Technology

Department of

Artificial Intelligence and Data Science

Name: Siddhesh Dilip Khairnar

Class: SY-B tech Division: B Roll No: 272028

Semester: 3rd Academic Year:2022-2023

Subject Name & Code: ADUA21206 - Data Visualization

Title of Assignment: Visualization in Tableau

Date of Performance: 14/10/2022 Date of Submission: 24/10/2022

Aim: Visualization in Tableau

Problem Statement: Download data set from Kaggle/Tableau/data world. Create visualizations, stating the questions addressed for each visualization.

- 1. Bar chart & Line Chart
- 2. Scatter plot & pie chart
- 3. Sparkline/Text table/Maps
- 4. Stacked area chart & Gantt chart
- 5. Highlight table & heat map

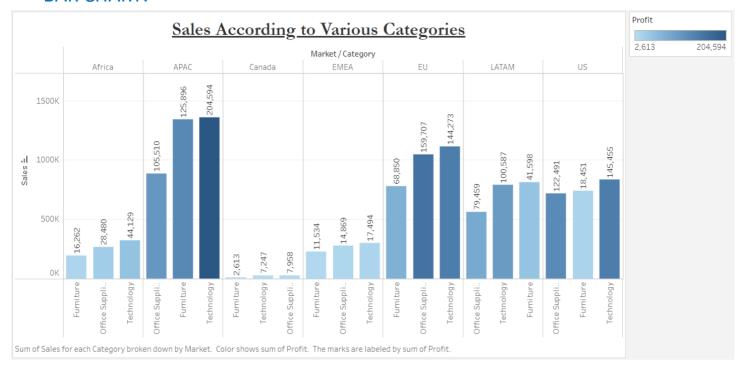
Theory/Writeup:

	PAGE NO.:
	DV Assignment uo: 3
	Name: siddhesh Dilip Khairnar
α.	Bar chart: Rouno: 272028
	Barchart are one of the most common data visualization
ũ	you can see fuse them quickey to compare data categories, highlight
	diffuence show trends and outlients.
iii	They are also used to show historical high & law at galance.
10	
o. → i	line chart or line graph connect several distinct data project point
	presenting numas one continous evaluation.
ij	use line charts to view trends in data, usually overline
с.	Scotter plot:
→ ĵ	Scatter plot are an effective may to investigate the relationship between different variables, showing good predication They can be used to check the continuity of datafrom
17	different variables, showing good pildication
- (1	They can be used to break the continuity of autogram
d.	PIE chart:
	Pie chart are powerful for adding detail to other visualization.
	Alone, a pie chart doesn't give the view of compare son between the
	injormation that two accurately.
12	Maps:
→ I	Map are us beainer for visualizing any kind of location related into.
ii	eg: - zipcode, country name, etc. Hy me'have gegraphic injo, associated with our data, then maps are
	best option for visualization
	D .

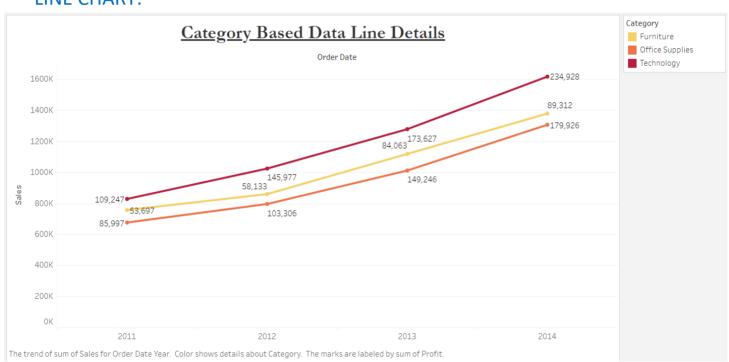
	PAGE NO.:											
	DATE: / /											
F.	Ganti charl: >											
i)	Gantl crart display a project schedule on show changes in activity											
	overtime.											
ii)_	Gante chart show steps that need to be completed before other can begin,											
	along with resources allocation.											
G.	Stocked Area chart: ->											
(i (A stacked area chart 'stacks' trend on top of each other to illustrate											
	how a part to whow distribution is charging over time.											
107												
	Kighlight table:											
	In Takeou you crate a highlight table by placing on or more											
	dimension on the colourns shift and one or more dimension on											
	rocu shel.											
i.	Heat Map: -											
	Tableau, heat map is a visualization where marks on view are											
	represented using color											
J.	sparkline: -											
	A spoubline is a small interse, simple, word sized geophic with											
	typographic resolution. sparkline mean that graphic are no loger											
	cartoonish special ocassions with caption and loxes, but rather											
	sparkline graphic can ve everywhere a word or number can be											

PAGENO : Detail about the dataset: -> The name of the dataset is blobal superstone Pataset. The blobal Superstone dataset isdata from a fictional global retail chain tral sell office supplies, furniture and Technology sluff this data is to downloaded from taggle Resource Page for every visualization: guestion addressed and the audience should be mentioned. 1. Barchart Question: which market has the lowest sales? 2 line chart: gues: In which year, which category has highest sales? 3 scatter chart: which marked has done the highest sales? 4. Richard : In which region wo of sales is less? 5 | sparkline crack: questio: which category has the maximum projet? 6. Map chart: gues: which state has highest projet? 7. Stacked Area charl: (gues: which region has lowest sales? 8. | Ganes chave: guest: In which year the people is maximum 3. Highlight Table: quest: which segment has lowest discount? 10. Heatmap: Question: which state has the highest sales? # Audience: they Executive officer, they operation officer, they financial officer, vices perisedent of sales, Director of IPT marketing Automation Manger

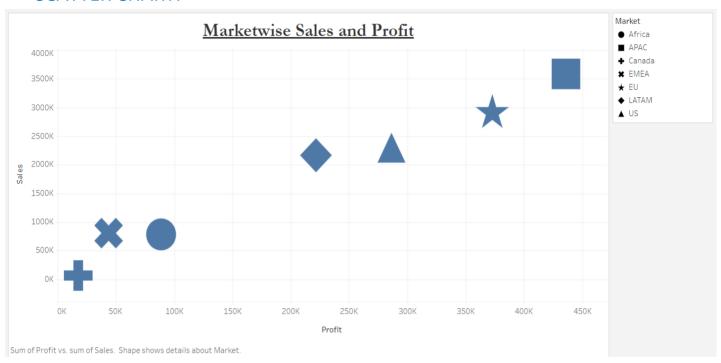
BAR CHART:



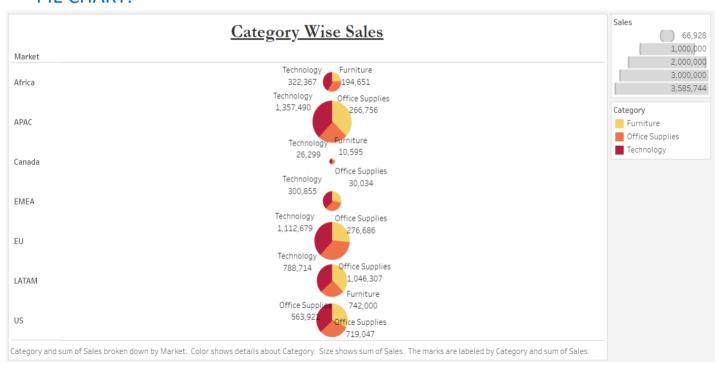
LINE CHART:



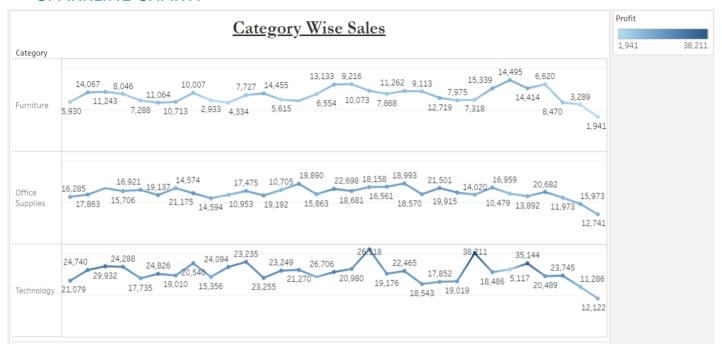
SCATTER CHART:



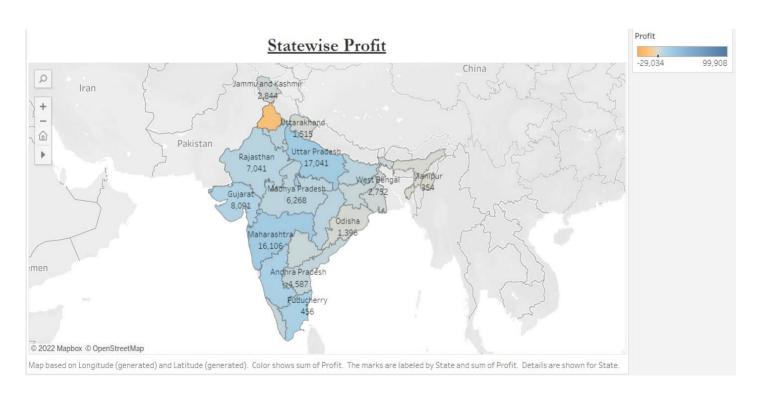
PIE CHART:



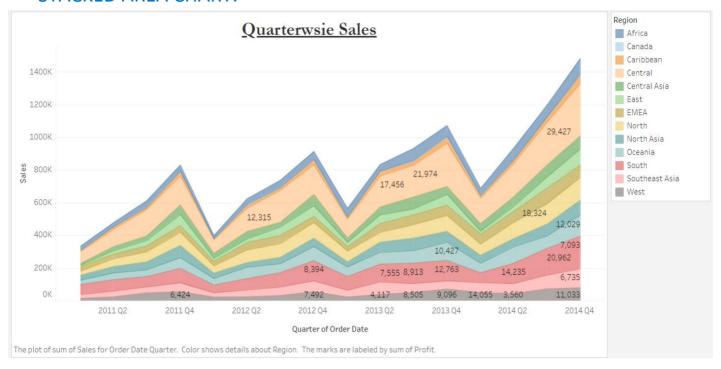
SPARKLINE CHART:



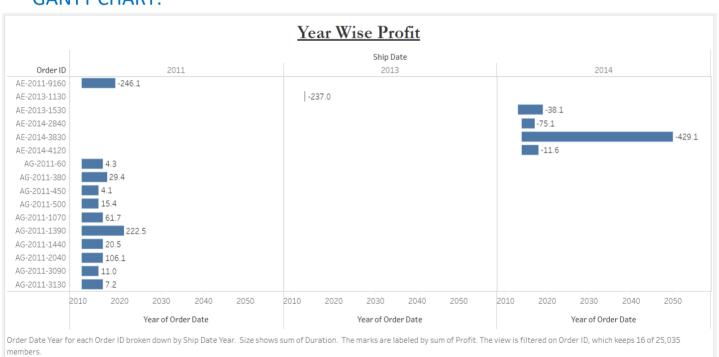
MAP CHART:



STACKED AREA CHART:



GANTT CHART:



HIGHLIGHT TABLE:



Dataset:

Abc	0	•	Abc	Abc	Abo	8	Abc	Abc	0	Abc	Abc	Abc	#	Abo	8	Abo	0	Abc	+
Orders Category	Orders City	Orders Country	Orders Customer ID	Orders Customer Name	Orders Market	Order Da	Orders Order ID	Orders Order Priority	Orders Postal Code	Orders Product ID	Orders Product Name	Orders Region	Orders Row ID	Orders Segme	Orders Ship Da	Orders Ship Mo	Orders State	Orders Sub-Category	Orders Discount
Technology	New York City	United States	RH-19495	Rick Hansen	US	7/31/2012	CA-2012-124891	Critical	10024	TEC-AC-10003033	Plantronics CS510 - Over-the	East	32298	Consumer	7/31/2012	Same Day	New York	Accessories	0.000000 🛎
Furniture	Wollongong	Australia	JR-16210	Justin Ritter	APAC	2/5/2013	IN-2013-77878	Critical	Null	FUR-CH-10003950	Novimex Executive Leather A	Oceania	26341	Corporate	2/7/2013	Second Class	New South Wales	Chairs	0.100000
Technology	Brisbane	Australia	CR-12730	Craig Reiter	APAC	10/17/2013	IN-2013-71249	Medium	Null	TEC-PH-10004664	Nokia Smart Phone, with Call	Oceania	25330	Consumer	10/18/2013	First Class	Queensland	Phones	0.100000
Technology	Berlin	Germany	KM-16375	Katherine Murray	EU	1/28/2013	ES-2013-15793	Medium	Null	TEC-PH-10004583	Motorola Smart Phone, Cordl	Central	13524	Home Office	1/30/2013	First Class	Berlin	Phones	0.100000
Technology	Dakar	Senegal	RH-9495	Rick Hansen	Africa	11/5/2013	SG-2013-4320	Critical	Null	TEC-SHA-10000501	Sharp Wireless Fax, High-Spe	Africa	47221	Consumer	11/6/2013	Same Day	Dakar	Copiers	0.000000
Technology	Sydney	Australia	JM-15655	Jim Mitchum	APAC	6/28/2013	IN-2013-42360	Critical	Null	TEC-PH-10000030	Samsung Smart Phone, with	Oceania	22732	Corporate	7/1/2013	Second Class	New South Wales	Phones	0.100000
Furniture	Porirua	New Zealand	TS-21340	Toby Swindell	APAC	11/7/2011	IN-2011-81826	Critical	Null	FUR-CH-10004050	Novimex Executive Leather A	Oceania	30570	Consumer	11/9/2011	First Class	Wellington	Chairs	0.000000
Furniture	Hamilton	New Zealand	MB-18085	Mick Brown	APAC	4/14/2012	IN-2012-86369	High	Null	FUR-TA-10002958	Chromcraft Conference Tabl	Oceania	31192	Consumer	4/18/2012	Standard Class	Waikato	Tables	0.000000
Office Supplies	Sacramento	United States	JW-15220	Jane Waco	US	10/14/2014	CA-2014-135909	Low	95823	OFF-BI-10003527	Fellowes PB500 Electric Pun	West	40155	Corporate	10/21/2014	Standard Class	California	Binders	0.200000
Furniture	Concord	United States	JH-15985	Joseph Holt	US	1/28/2012	CA-2012-116638	Critical	28027	FUR-TA-10000198	Chromcraft Bull-Nose Wood	South	40936	Consumer	1/31/2012	Second Class	North Carolina	Tables	0.400000
Office Supplies	Alexandria	United States	GM-14695	Greg Maxwell	US	4/5/2011	CA-2011-102988	High	22304	OFF-SU-10002881	Martin Yale Chadless Opener	South	34577	Corporate	4/9/2011	Second Class	Virginia	Supplies	0.000000
Furniture	Kabul	Afghanistan	AJ-10780	Anthony Jacobs	APAC	4/19/2012	ID-2012-28402	High	Null	FUR-TA-10001889	Bevis Conference Table, Fully	Central A	28879	Corporate	4/22/2012	First Class	Kabul	Tables	0.000000
Technology	Jizan	Saudi Arabia	MM-7260	Magdelene Morse	EMEA	12/27/2011	SA-2011-1830	Critical	Null	TEC-CIS-10001717	Cisco Smart Phone, with Call	EMEA	45794	Consumer	12/29/2011	Second Class	Jizan	Phones	0.000000
Furniture	Toledo	Brazil	VF-21715	Vicky Freymann	LATAM	11/13/2012	MX-2012-130015	Critical	Null	FUR-CH-10002033	Harbour Creations Executive	South	4132	Home Office	11/13/2012	Same Day	Parana	Chairs	0.000000
Office Supplies	Mudanjiang	China	PF-19120	Peter Fuller	APAC	6/6/2013	IN-2013-73951	Critical	Null	OFF-AP-10003500	KitchenAid Microwave, White	North Asia	27704	Consumer	6/8/2013	Second Class	Heilongjiang	Appliances	0.000000
Office Supplies	Paris	France	BP-11185	Ben Peterman	EU	7/31/2014	ES-2014-5099	Critical	Null	OFF-AP-10000423	Breville Refrigerator, Red	Central	13779	Corporate	8/3/2014	Second Class	Ile-de-France	Appliances	0.100000
Technology	Henderson	United States	TB-21175	Thomas Boland	US	11/3/2014	CA-2014-143567	Critical	42420	TEC-AC-10004145	Logitech diNovo Edge Keybo	South	36178	Corporate	11/6/2014	Second Class	Kentucky	Accessories	0.000000
Office Supplies	Prato	Italy	PJ-18835	Patrick Jones	EU	9/8/2014	ES-2014-1651774	Low	Null	OFF-AP-10004512	Hoover Stove, Red	South	12069	Corporate	9/14/2014	Standard Class	Tuscany	Appliances	0.000000
Technology	Townsville	Australia	JS-15685	Jim Sink	APAC	1/31/2014	IN-2014-11763	Critical	Null	TEC-CO-10000865	Brother Fax Machine, High-S	Oceania	22096	Corporate	2/1/2014	First Class	Queensland	Copiers	0.100000
Office Supplies	Uvinza	Tanzania	RH-9555	Ritsa Hightower	Africa	12/5/2014	TZ-2014-8190	High	Null	OFF-KIT-10004058	KitchenAid Stove, White	Africa	49463	Consumer	12/7/2014	Second Class	Kigoma	Appliances	0.000000
Furniture	Bytom	Poland	AB-600	Ann Blume	EMEA	8/8/2012	PL-2012-7820	Critical	Null	FUR-HON-100002	Hon Computer Table, with Bo	EMEA	46630	Corporate	8/10/2012	First Class	Silesia	Tables	0.000000
Technology	Chicago	United States	SA-20830	Sue Ann Reed	US	10/29/2011	CA-2011-154627	High	60610	TEC-PH-10001363	Apple iPhone 5S	Central	31784	Consumer	10/31/2011	First Class	Illinois	Phones	0.200000
Furniture	Suzhou	China	JK-15325	Jason Klamczynski	APAC	5/2/2011	IN-2011-44803	Critical	Null	FUR-CH-10000027	SAFCO Executive Leather Ar	North Asia	21586	Corporate	5/3/2011	First Class	Anhui	Chairs	0.000000
Office Supplies	Edinburgh	United King	LB-16795	Laurel Beltran	EU	2/27/2013	ES-2013-28605	High	Null	OFF-AP-10003590	KitchenAid Refrigerator, Black	North	13528	Home Office	3/1/2013	Second Class	Scotland	Appliances	0.000000
Technology	Juárez	Mexico	NP-18325	Naresi Patel	LATAM	7/31/2014	US-2014-133193	Critical	Null	TEC-PH-10004182	Motorola Smart Phone, Full S	North	1570	Consumer	8/1/2014	First Class	Chihuahua	Phones	0.000000
Furniture	Soyapango	El Salvador	VD-21670	Valerie Dominguez	LATAM	9/5/2014	MX-2014-165309	Critical	Null	FUR-TA-10002827	Hon Computer Table, Fully As	Central	3484	Consumer	9/8/2014	First Class	San Salvador	Tables	0.200000
Furniture	Taipei	Taiwan	PB-19210	Phillip Breyer	APAC	12/17/2011	IN-2011-10286	Critical	Null	FUR-TA-10004744	Lesro Conference Table, with	North Asia	30191	Corporate	12/20/2011	First Class	Taipei City	Tables	0.000000
Office Supplies	Leipzig	Germany	EB-14110	Eugene Barchas	EU	3/14/2011	ES-2011-46997	Critical	Null	OFF-AP-10004512	Hoover Stove, Red	Central	11645	Consumer	3/17/2011	Second Class	Saxony	Appliances	0.100000
Technology	Los Angeles	United States	KF-16285	Karen Ferguson	US	3/11/2013	CA-2013-159016	High	90008	TEC-PH-10002885	Apple iPhone 5	West	37311	Home Office	3/12/2013	First Class	California	Phones	0.200000
Furniture	Surat	India	BP-11230	Benjamin Patterson	APAC	2/25/2012	IN-2012-44810	Critical	Null	FUR-CH-10001415	Office Star Executive Leather	Central A	22999	Consumer	2/25/2012	Same Day	Gujarat	Chairs	0.000000
Technology	Santo Domi	Dominican	RR-19525	Rick Reed	LATAM	12/28/2011	US-2011-128776	Critical	Null	TEC-PH-10002815	Samsune Smart Phone, VoIP	Caribbean	220	Corporate	12/30/2011	Second Class	Santo Domingo	Phones	0.200000
Technology	Saint-Brieuc	France	BS-11365	Bill Shonely	EU	7/17/2012	ES-2012-58702	Critical	Null	TEC-MA-10000161	Okidata Inkjet, Wireless	Central	10648	Corporate	7/19/2012	First Class	Brittany	Machines	0.150000
Furniture	Amarillo	United States	JF-15745	Inel Faton	US	10/15/2012	CA-2012-139731	High	79109	FUR-CH-10002024	HON 5400 Series Task Chair	Central	32735	Consumer	10/15/2012	Same Day	Texas	Chairs	0.300000
Office Supplies	Gold Coast	Australia	DP-13105	Dave Poiner	APAC	11/3/2012	IN-2011-28087	Critical	Null	OFF-AP-10004246	Breville Stove, Red	Oceania	21286	Corporate	11/5/2011	Second Class	Queensland	Appliances	0.100000
Furniture	Fresno	United States	NP-18700	Nora Preis	US	12/12/2011	CA-2011-28087	High	93727	FUR-TA-10003473	Bretford Rectangular Confer	West	32543	Consumer	12/14/2011	Second Class Second Class	Queensiand	Appliances Tables	0.200000
		Democratic						-			-		32043 47905						
Technology	Kamina Naw Yest City		AH-30	Aaron Hawkins	Africa	9/14/2011	CG-2011-8610	High	Null	TEC-APP-100003	Apple Smart Phone, Full Size	Africa		Corporate	9/15/2011	First Class	Katanga	Phones	0.000000
Technology	New York City	United States	DM-13015	Darrin Martin	US	9/14/2011	CA-2011-160766	High	10009	TEC-MA-10003979	Ativa V4110MDD Micro-Cut S	East	36423	Consumer	9/14/2011	Same Day	New York	Machines	0.000000
Technology	Burlington	United States	GT-14635	Grant Thornton	US	11/5/2014	US-2014-168116	High	27217	TEC-MA-10004125	Cubify CubeX 3D Printer Trip	South	31980	Corporate	11/5/2014	Same Day	North Carolina	Machines	0.500000

Conclusion: Through this assignment, I had learned how to make different types of visualizations and how to do it analysis.

Tableau Public Profile Link:

https://public.tableau.com/app/profile/siddhesh.dilip.kh airnar/viz/B 28 SiddheshKhairnar ASS 3/PIECHART