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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: Temporal category visualization		
Date of Performance: 7/11/2022		Date of Submission: 12/11/2022

Aim: Visualization for temporal category (use analytic-average/reference/trend lines/regressions)

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

Theory/Writeup:

Assignment no : 4

Aim: Temporal category Visualization

1) What is temporal category ?

Ans Temporal visualization are similar to one - dimensional linear visulation. Because timelines are widely used and vital enough for medical record, project management, and historical presentation, they are considered a separate data types. Temporal data is characterized by item that have a start and finish time, and item may overlap each other. Timeline visualization usually include all event before, after or during some time period or moment. Example of Temporal Visualization include : timeline, Gantt charts, stream graph, arc diagram / thread arc, three tree ring / concentric circle graph, time series chart / graphs, and alluvial diagram.

2) Detail of the dataset used ?

Ans We have used dataset of Nurtion physical Activity and obesity Behavioral Risk Factor surveillance system which has been downloaded from kaggle. This dataset includes data on adult's diet, physical activity, and weight status from Behavioral risk factor surveillance system. This data is used for DNPAO's Data, Trends, and Maps database, which provide national and state.
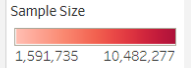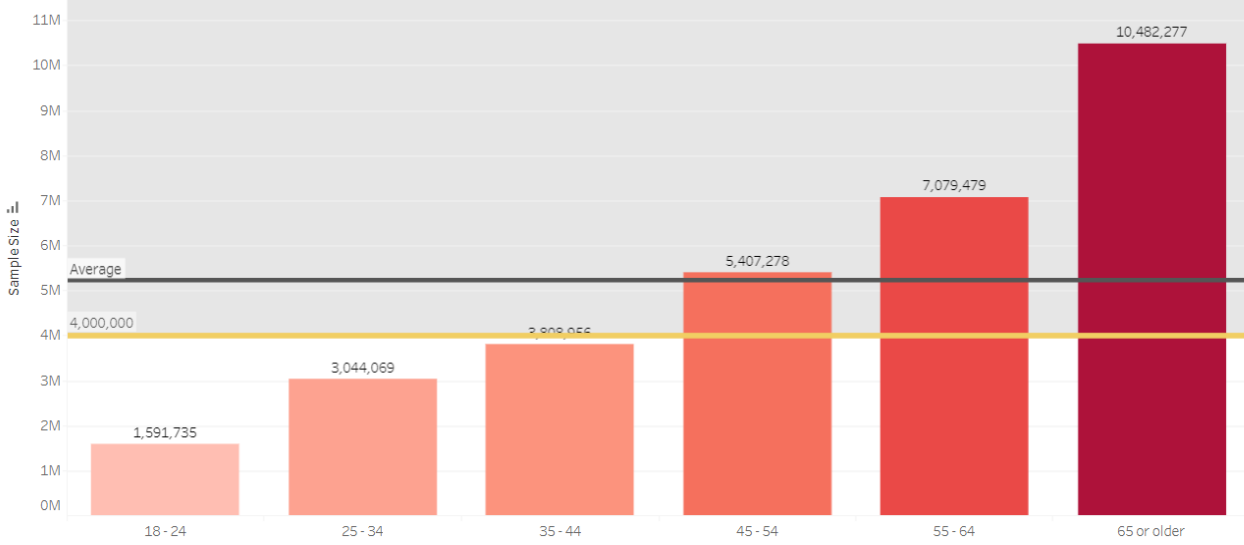
3) The detail of which

Ans We have used Bar chart visualization specifically with horizontal bars. Also it is recommended by tableau with 0 or more dimension and 1 or more measures. This visualization is used because properly representation has been done through which the audience can easily read what we had have to show them.

4) Types of analytics?

Ans Broadly, there are three types of analytic. descriptive, prescriptive and predictive. the simplest types, descriptive analytic, describe something that has already happened and suggest its root causes.

Prescriptive Analytic take things a stage further : In addition to helping organization understand causes, it helps them learn from what's happened and shape tactics and strategies that can improve their current performance and their profitability. A simple example would be the analysis of marketing campaigns. predictive Analytic is the most beneficial, but agreatly the most complex types It help user to identify pattern that suggest future situation and behaviours

Sample Size of Obesity with Age

Age(years)

Sample Size: 1,591,735 — 10,482,277

Age group	Sample Size
18 - 24	1,591,735
25 - 34	3,044,069
35 - 44	3,808,056
45 - 54	5,407,278
55 - 64	7,079,479
65 or older	10,482,277

Average
4,000,000

YearStart	YearEnd	LocationA	LocationD	Datasour	Class	Topic	Question	Data_Valu	Data_Valu	Data_Valu	Data_Valu	Data_Valu	Data_Valu	Low_Conf	High_Con	Sample_S	Total	Age(years	Education	Gender	Income	Race/Ethr	GeoLocati	ClassID	TopicID	QuestionI	DataValue	LocationI	Stratifica	Stratifica	Stratifica	Stratification
2011	2011	AL	Alabama	Behaviora	Obesity /	Obesity /	Percent of adults ag	Value	32	32					30.5	33.5	7304	Total						(32.8405	OWS	OWS1	Q036	VALUE	1	Total	Total	OVR	OVERALL
2011	2011	AL	Alabama	Behaviora	Obesity /	Obesity /	Percent of adults ag	Value	32.3	32.3					29.9	34.7	2581				Male			(32.8405	OWS	OWS1	Q036	VALUE	1	Gender	Male	GEN	MALE
2011	2011	AL	Alabama	Behaviora	Obesity /	Obesity /	Percent of adults ag	Value	31.8	31.8					30	33.6	4723				Female			(32.8405	OWS	OWS1	Q036	VALUE	1	Gender	Female	GEN	FEMALE
2011	2011	AL	Alabama	Behaviora	Obesity /	Obesity /	Percent of adults ag	Value	33.6	33.6					29.9	37.6	1153			Less than high school				(32.8405	OWS	OWS1	Q036	VALUE	1	Education	Less than	EDU	EDUHS
2011	2011	AL	Alabama	Behaviora	Obesity /	Obesity /	Percent of adults ag	Value	32.8	32.8					30.2	35.6	2402			High school graduate				(32.8405	OWS	OWS1	Q036	VALUE	1	Education	High scho	EDU	EDUHSGRAD
2011	2011	AL	Alabama	Behaviora	Obesity /	Obesity /	Percent of adults ag	Value	33.8	33.8					31	36.8	1925			Some college or technical school				(32.8405	OWS	OWS1	Q036	VALUE	1	Education	Some coll	EDU	EDUCOTEC
2011	2011	AL	Alabama	Behaviora	Obesity /	Obesity /	Percent of adults ag	Value	26.4	26.4					23.7	29.3	1812			College graduate				(32.8405	OWS	OWS1	Q036	VALUE	1	Education	College gr	EDU	EDUCOGRAD
2011	2011	AL	Alabama	Behaviora	Obesity /	Obesity /	Percent of adults ag	Value	16.3	16.3					12.6	20.9	356		18 - 24					(32.8405	OWS	OWS1	Q036	VALUE	1	Age (year	18 - 24	AGEYR	AGEYR1824
2011	2011	AL	Alabama	Behaviora	Obesity /	Obesity /	Percent of adults ag	Value	35.2	35.2					30.7	40	598		25 - 34					(32.8405	OWS	OWS1	Q036	VALUE	1	Age (year	25 - 34	AGEYR	AGEYR2534
2011	2011	AL	Alabama	Behaviora	Obesity /	Obesity /	Percent of adults ag	Value	35.5	35.5					31.6	39.6	865		35 - 44					(32.8405	OWS	OWS1	Q036	VALUE	1	Age (year	35 - 44	AGEYR	AGEYR3544
2011	2011	AL	Alabama	Behaviora	Obesity /	Obesity /	Percent of adults ag	Value	38	38					34.5	41.5	1288		45 - 54					(32.8405	OWS	OWS1	Q036	VALUE	1	Age (year	45 - 54	AGEYR	AGEYR4554
2011	2011	AL	Alabama	Behaviora	Obesity /	Obesity /	Percent of adults ag	Value	36.4	36.4					33.4	39.5	1676		55 - 64					(32.8405	OWS	OWS1	Q036	VALUE	1	Age (year	55 - 64	AGEYR	AGEYR5564
2011	2011	AL	Alabama	Behaviora	Obesity /	Obesity /	Percent of adults ag	Value	27.1	27.1					24.9	29.3	2521		65 or older					(32.8405	OWS	OWS1	Q036	VALUE	1	Age (year	65 or olde	AGEYR	AGEYR65PLUS
2011	2011	AL	Alabama	Behaviora	Obesity /	Obesity /	Percent of adults ag	Value	38.5	38.5					34.4	42.8	1112					Less than $15,000		(32.8405	OWS	OWS1	Q036	VALUE	1	Income	Less than	INC	INCLESS15
2011	2011	AL	Alabama	Behaviora	Obesity /	Obesity /	Percent of adults ag	Value	34.8	34.8					31.3	38.5	1367					$15,000 - $24,999		(32.8405	OWS	OWS1	Q036	VALUE	1	Income	$15,000 -	INC	INC1525
2011	2011	AL	Alabama	Behaviora	Obesity /	Obesity /	Percent of adults ag	Value	35.8	35.8					31.1	40.8	757					$25,000 - $34,999		(32.8405	OWS	OWS1	Q036	VALUE	1	Income	$25,000 -	INC	INC2535
2011	2011	AL	Alabama	Behaviora	Obesity /	Obesity /	Percent of adults ag	Value	32.3	32.3					28	36.8	861					$35,000 - $49,999		(32.8405	OWS	OWS1	Q036	VALUE	1	Income	$35,000 -	INC	INC3550
2011	2011	AL	Alabama	Behaviora	Obesity /	Obesity /	Percent of adults ag	Value	34.1	34.1					29.7	38.8	785					$50,000 - $74,999		(32.8405	OWS	OWS1	Q036	VALUE	1	Income	$50,000 -	INC	INC5075
2011	2011	AL	Alabama	Behaviora	Obesity /	Obesity /	Percent of adults ag	Value	28.8	28.8					25.4	32.5	1125					$75,000 or greater		(32.8405	OWS	OWS1	Q036	VALUE	1	Income	$75,000 c	INC	INC75PLUS
2011	2011	AL	Alabama	Behaviora	Obesity /	Obesity /	Percent of adults ag	Value	23.8	23.8					20.7	27.3	1297					Data not reported		(32.8405	OWS	OWS1	Q036	VALUE	1	Income	Data not	INC	INCNR
2011	2011	AL	Alabama	Behaviora	Obesity /	Obesity /	Percent of adults ag	Value	29.8	29.8					28	31.6	5042						Non-Hisp	(32.8405	OWS	OWS1	Q036	VALUE	1	Race/Ethr	Non-Hisp	RACE	RACEWHT
2011	2011	AL	Alabama	Behaviora	Obesity /	Obesity /	Percent of adults ag	Value	40.1	40.1					36.9	43.3	1878						Non-Hisp	(32.8405	OWS	OWS1	Q036	VALUE	1	Race/Ethr	Non-Hisp	RACE	RACEBLK
2011	2011	AL	Alabama	Behaviora	Obesity /	Obesity /	Percent of adults ag	Value	28.6	28.6					17.5	43.1	115						Hispanic	(32.8405	OWS	OWS1	Q036	VALUE	1	Race/Ethr	Hispanic	RACE	RACEHIS
2011	2011	AL	Alabama	Behaviora	Obesity /	Obesity /	Percent of adults ag					~	Data not available because sample size is insufficient.									Asian	(32.8405	OWS	OWS1	Q036	VALUE	1	Race/Ethr	Asian	RACE	RACEASN
2011	2011	AL	Alabama	Behaviora	Obesity /	Obesity /	Percent of adults ag					~	Data not available because sample size is insufficient.									Hawaiian	(32.8405	OWS	OWS1	Q036	VALUE	1	Race/Ethr	Hawaiian	RACE	RACEHPI
2011	2011	AL	Alabama	Behaviora	Obesity /	Obesity /	Percent of adults ag	Value	32.9	32.9					18.4	51.7	61						American	(32.8405	OWS	OWS1	Q036	VALUE	1	Race/Ethr	American	RACE	RACENAA
2011	2011	AL	Alabama	Behaviora	Obesity /	Obesity /	Percent of adults ag	Value	27.8	27.8					14.4	46.9	58						2 or more	(32.8405	OWS	OWS1	Q036	VALUE	1	Race/Ethr	2 or more	RACE	RACE2PLUS
2011	2011	AL	Alabama	Behaviora	Obesity /	Obesity /	Percent of adults ag					~	Data not available because sample size is insufficient.									Other	(32.8405	OWS	OWS1	Q036	VALUE	1	Race/Ethr	Other	RACE	RACEOTH
2011	2011	AL	Alabama	Behaviora	Obesity /	Obesity /	Percent of adults ag	Value	34.7	34.7					33.1	36.3	7304	Total						(32.8405	OWS	OWS1	Q037	VALUE	1	Total	Total	OVR	OVERALL
2011	2011	AL	Alabama	Behaviora	Obesity /	Obesity /	Percent of adults ag	Value	39	39					36.5	41.6	2581				Male			(32.8405	OWS	OWS1	Q037	VALUE	1	Gender	Male	GEN	MALE
2011	2011	AL	Alabama	Behaviora	Obesity /	Obesity /	Percent of adults ag	Value	30.5	30.5					28.7	32.4	4723				Female			(32.8405	OWS	OWS1	Q037	VALUE	1	Gender	Female	GEN	FEMALE
2011	2011	AL	Alabama	Behaviora	Obesity /	Obesity /	Percent of adults ag	Value	33.2	33.2					29.2	37.5	1153			Less than high school				(32.8405	OWS	OWS1	Q037	VALUE	1	Education	Less than	EDU	EDUHS
2011	2011	AL	Alabama	Behaviora	Obesity /	Obesity /	Percent of adults ag	Value	34.1	34.1					31.4	36.8	2402			High school graduate				(32.8405	OWS	OWS1	Q037	VALUE	1	Education	High scho	EDU	EDUHSGRAD
2011	2011	AL	Alabama	Behaviora	Obesity /	Obesity /	Percent of adults ag	Value	35	35					32.1	38.1	1925			Some college or technical school				(32.8405	OWS	OWS1	Q037	VALUE	1	Education	Some coll	EDU	EDUCOTEC
2011	2011	AL	Alabama	Behaviora	Obesity /	Obesity /	Percent of adults ag	Value	36.8	36.8					33.8	39.8	1812			College graduate				(32.8405	OWS	OWS1	Q037	VALUE	1	Education	College gr	EDU	EDUCOGRAD
2011	2011	AL	Alabama	Behaviora	Obesity /	Obesity /	Percent of adults ag	Value	27.1	27.1					21.6	33.3	356		18 - 24					(32.8405	OWS	OWS1	Q037	VALUE	1	Age (year	18 - 24	AGEYR	AGEYR1824
2011	2011	AL	Alabama	Behaviora	Obesity /	Obesity /	Percent of adults ag	Value	31.9	31.9					27.4	36.7	598		25 - 34					(32.8405	OWS	OWS1	Q037	VALUE	1	Age (year	25 - 34	AGEYR	AGEYR2534
2011	2011	AL	Alabama	Behaviora	Obesity /	Obesity /	Percent of adults ag	Value	33.3	33.3					29.4	37.5	857		35 - 44					(32.8405	OWS	OWS1	Q037	VALUE	1	Age (year	35 - 44	AGEYR	AGEYR3544
2011	2011	AL	Alabama	Behaviora	Obesity /	Obesity /	Percent of adults ag	Value	35.8	35.8					32.5	39.3	1286		45 - 54					(32.8405	OWS	OWS1	Q037	VALUE	1	Age (year	45 - 54	AGEYR	AGEYR4554
2011	2011	AL	Alabama	Behaviora	Obesity /	Obesity /	Percent of adults ag	Value	38.9	38.9					35.7	42.2	1650		55 - 64					(32.8405	OWS	OWS1	Q037	VALUE	1	Age (year	55 - 64	AGEYR	AGEYR5564

Tableau Public Profile Link:

https://public.tableau.com/app/profile/siddhesh.dilip.khairnar/viz/B_28_SiddheshKhairnar_DV_ASS4/Sheet1