

Program 01 :-

Analysis of HR data :-

- i) Create KPI to show employee count, attrition count, attrition rate, attrition count active employee and average age.
(KPI = Key Performance Indicator)
- ii) Create a lollipop chart to show the attrition rate based on gender category.
- iii) Create a pie chart to show the attrition percentage based on department category. Drag department into colours & change automatic to pie. entire view, Drag attrition count to angle. Label attrition count, change to percent, and total also, edit label.
- iv) Create a bar chart to display the number of employees by age group.
- v) Create a highlight table to show the job satisfactions rating for each job role based on employee count.
- vi) Create a horizontal bar chart to show the attrition count for each education field education field wise attrition - drag education field to rows, sum attrition count to one.
- vii) Create multiple donut chart to show the attrition rate by gender for different age group.

File Story Analysis Map Format Server Window Help

HR Analysis DB

Key Performance Indicators



Show Me

Education (All)

Gender

Female

Male

Department

IT

Marketing

Sales

Employee Count

42

150

500

2000

3000

5000

10000

20000

30000

40000

50000

60000

70000

80000

90000

100000

110000

120000

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2600000

2610000

2620000

2630000

g) KPI :- Create calculated field for each KPI.

Employee count: Drag employee ID to the [main cell] text area.

Attrition count:

```
IF ([Attrition]) = "YES" THEN 1  
ELSE 0  
ENDS
```

Attrition rate:

$$\text{SUM} ([Attrition Count]) / \text{SUM} ([Employee Count])$$

Active employee:

$$\text{SUM} ([Employee Count]) - \text{SUM} ([Attrition Count])$$

Average age:

$$\text{avg} (\text{age})$$

Drag each calculated field onto the text card of a dashboard.

Add education from dimension into filter measure values into text.

Measure names into filter.



iii) Lollipop chart.

Drag (attrition count) to col from measure.

" Gender to rows from measure.

Create 2 attrition count by using col to col.

change according to size 1st - Bar } lollipop

2nd - Circle }

by right click
dual axis

Drag attrition count to table & change to gender.

" gender to col \rightarrow change accordingly.

iii) Pie chart :-

Drag Department to values

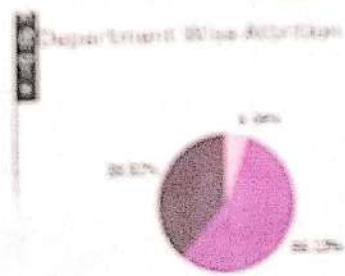
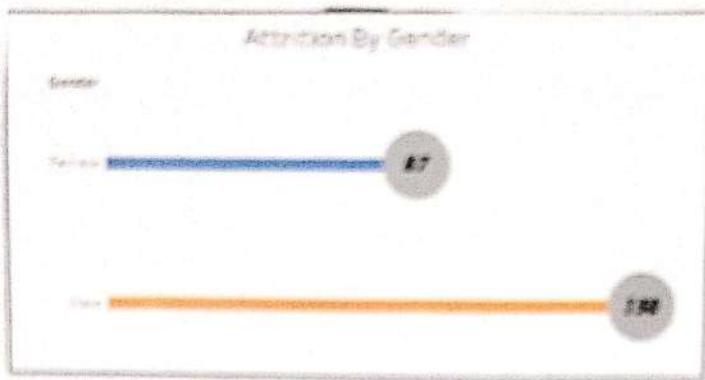
Drag attrition count to angle

attrition count to label
" "

right click \rightarrow

to get in of quick table calculation

%" } of total.



iv) Bar chart:-

Drag age from measure → Create

→ Bins

→ Size - 3 *

Create parameters

Change name → Bin size.

Drag age → column

employee count → Row

employee count → table

Bin size & show parameters

Employee count → colour.

v) Highlight table: change Job Satisfaction from measure to dimension.

Drag Job role → Row

Job satisfaction → Col

Employee count → Text

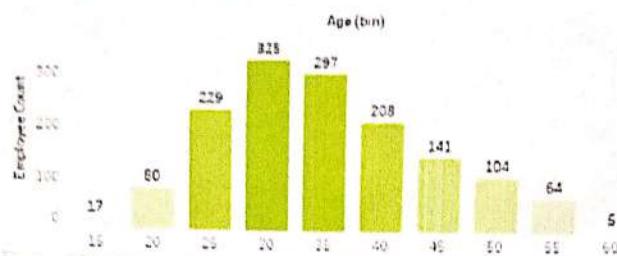
" → colour.

Show me → highlight table

analysis → total → show row grand total

" col " "

Number of Employees By Age Group



Job Satisfaction Rating

Job Satisfaction	Job Role								
	Healthcare Reps.	Human Resources	Lab Technicians	Manufacturing	Research	Sales Executives	Sales Reps.	Scientist	Manager
1	26	10	56	21	26	15	54	69	12
2	19	16	48	21	32	16	53	54	21
3	43	13	75	27	49	27	80	91	27
4	43	13	80	33	38	22	95	112	23

vii) Horizontal bar chart:

[at middle sort if ungrouped]

Drag educational field \rightarrow rows

attrition count \rightarrow col

" " \rightarrow label.

viii) Donut chart:

Drag cf age band \rightarrow col.

automatic - pie chart

Drag gender \rightarrow coloum

attrition count \rightarrow angle.

Pass vacate dummy $\overset{1^{\text{st}}}{\text{min}}$ (11) + one more (12) + reduce 2^{nd} pie chart \rightarrow size.

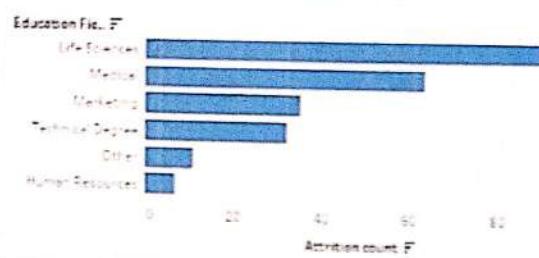
remove gender & attrition count from 2^{nd} chart.

dual axis 2^{nd} pie chart drag attrition count \rightarrow label.

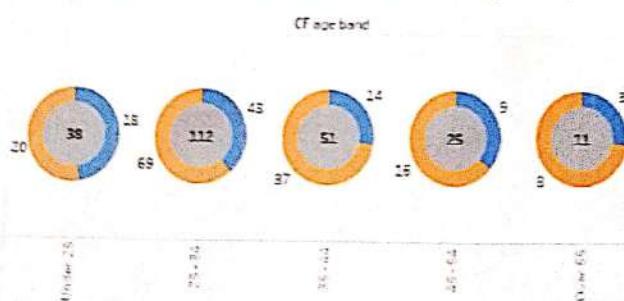
1^{st} " " " " " \rightarrow label.

Ctrl - CF age band \rightarrow sort \rightarrow manual \rightarrow under 25.

Education Field Attrition



Attrition Rate By Gender For Different Age Groups



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30 12 2024

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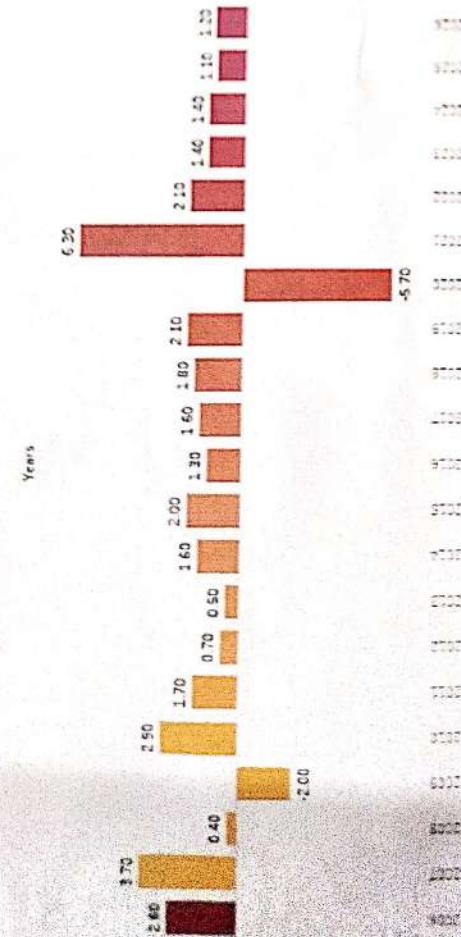
Program 02 :

Analysis of GDP dataset.

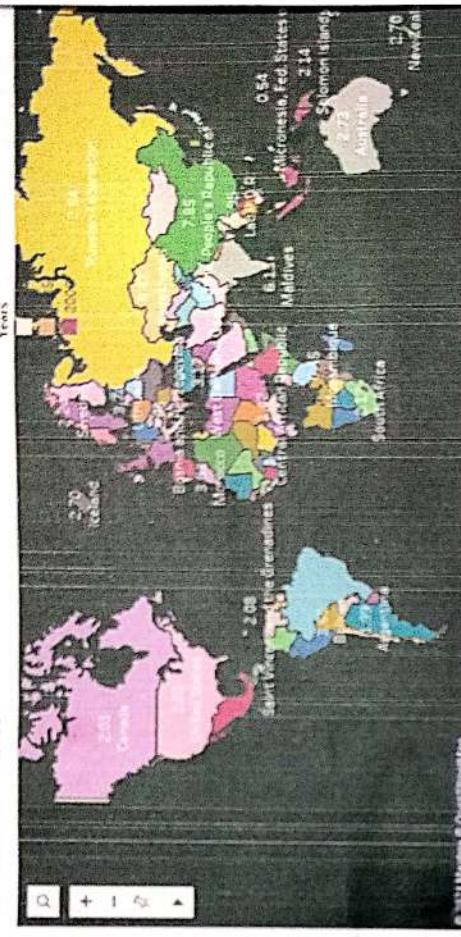
- i) Visualize the countries data given in the dataset with respect to latitude and longitude along with country name using symbol maps.
- ii) Create a bar graph to compare GDP of Belgium b/w 2006 - 2026.
- iii) Using pie-chart, visualize the GDP of India, Nepal, Romania, South Africa, Singapore by the year 2010.
- iv) Visualize the countries by Bhutan & Costa Rica competing in terms of GDP.
- v) Create a Scatter plot or Circle view of GDP of Mexico, Algeria, Fiji, Estonia from 2001 to 2006.
- vi) Build an interactive dashboard.

GDP Analysis Dashboard

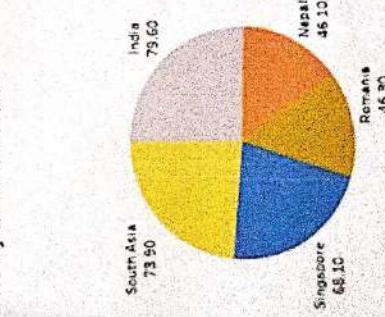
GDP Belgium between 2006 to 2026



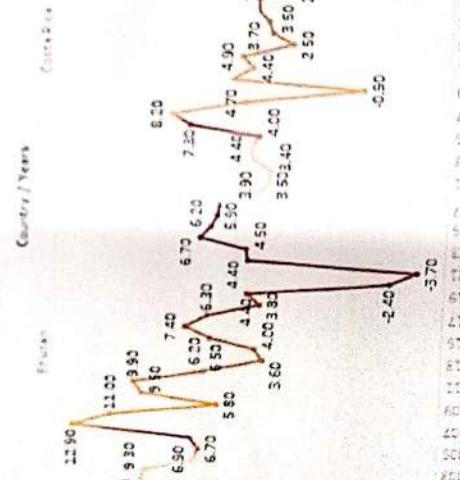
GDP of All countries



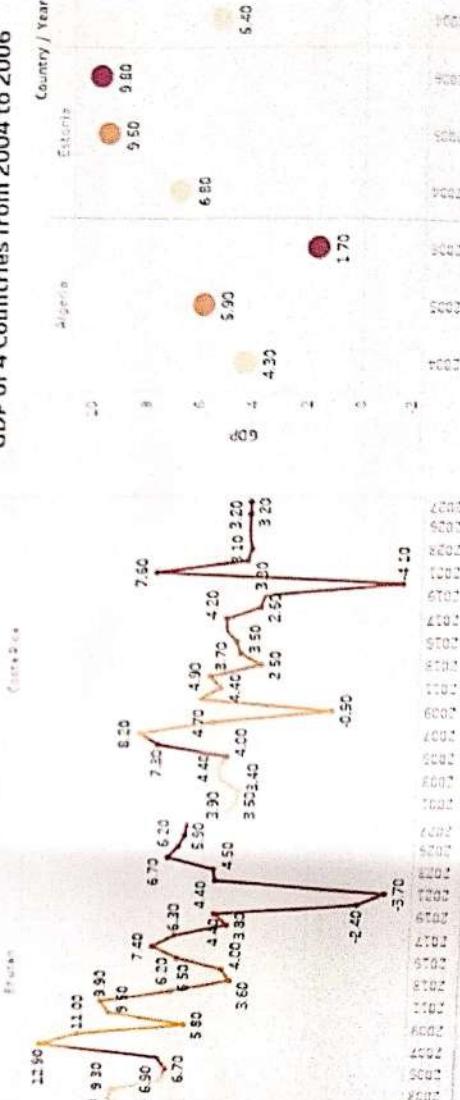
GDP OF 5 countries by 2000 to 2010



GDP of Bhutan and costarica



GDP of 4 Countries from 2004 to 2006



DDMMYY
[] [] [] [] [] []

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Drag table to col.

Select 2006-2007. right click → pivot
clicking
Pivot name field - year
" - GDP

ii Select country dimension from Show me - 2nd map.
map from top → Background map → dark.
country from dimension (D) → label.
GDP " measure (M) → label.
Sum → measure → avg
Country from M → color.

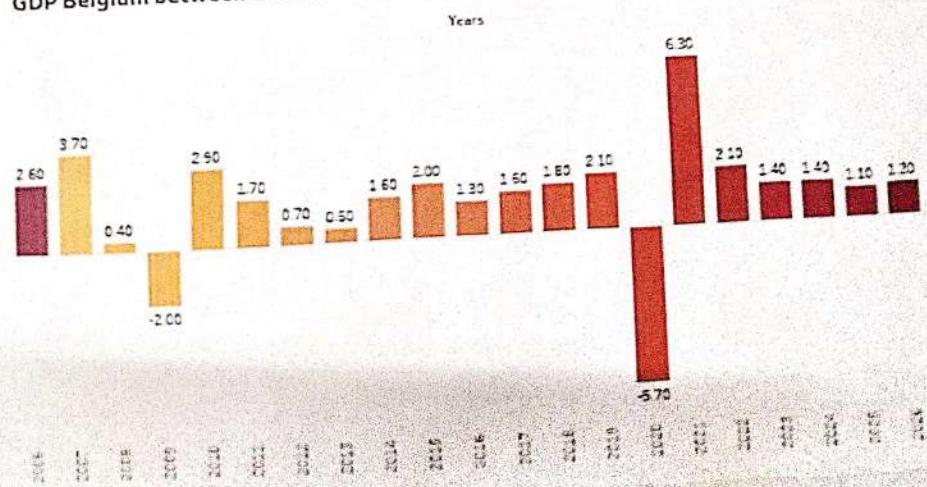
iii Country from D → filter → Bel ^{country in} → apply → OK.
years " " → " → 2006-26.
" " " → col.

GDP from M → avg
years to color
GDP to label.

GDP of All countries



GDP Belgium between 2006 to 2026



DDMMYY
□□□□□□

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iii) Country from D \rightarrow filter \rightarrow country
years " " \rightarrow " \rightarrow 2000-10.

marks - automatic - Pie

EpDp \rightarrow angle

Country \rightarrow colour

EpDp, country \rightarrow label.

iv) Country from D \rightarrow filter \rightarrow country

EpDp " M \rightarrow Row.

years " D \rightarrow col

Country \rightarrow colour

Show me \rightarrow 9th (slide by slide)

EpDp - label

marks \rightarrow automatic - line.

v) Country from D \rightarrow filter \rightarrow country

years " " \rightarrow " (2004-06)

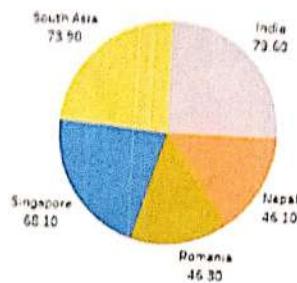
Country, years \rightarrow col.

EpDp \rightarrow Row

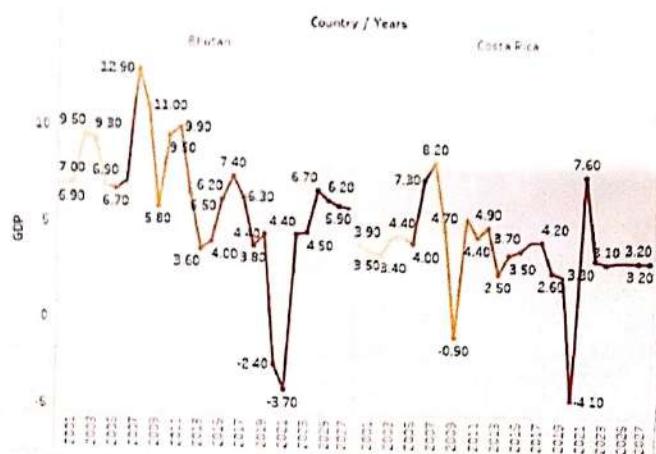
Country \rightarrow colour

EpDp. \rightarrow label

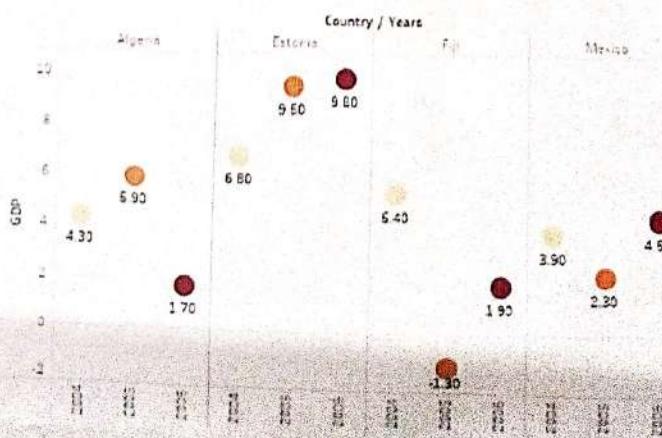
GDP OF 5 countries by 2000 to 2010



GDP of Bhutan and costarica



GDP of 4 Countries from 2004 to 2006

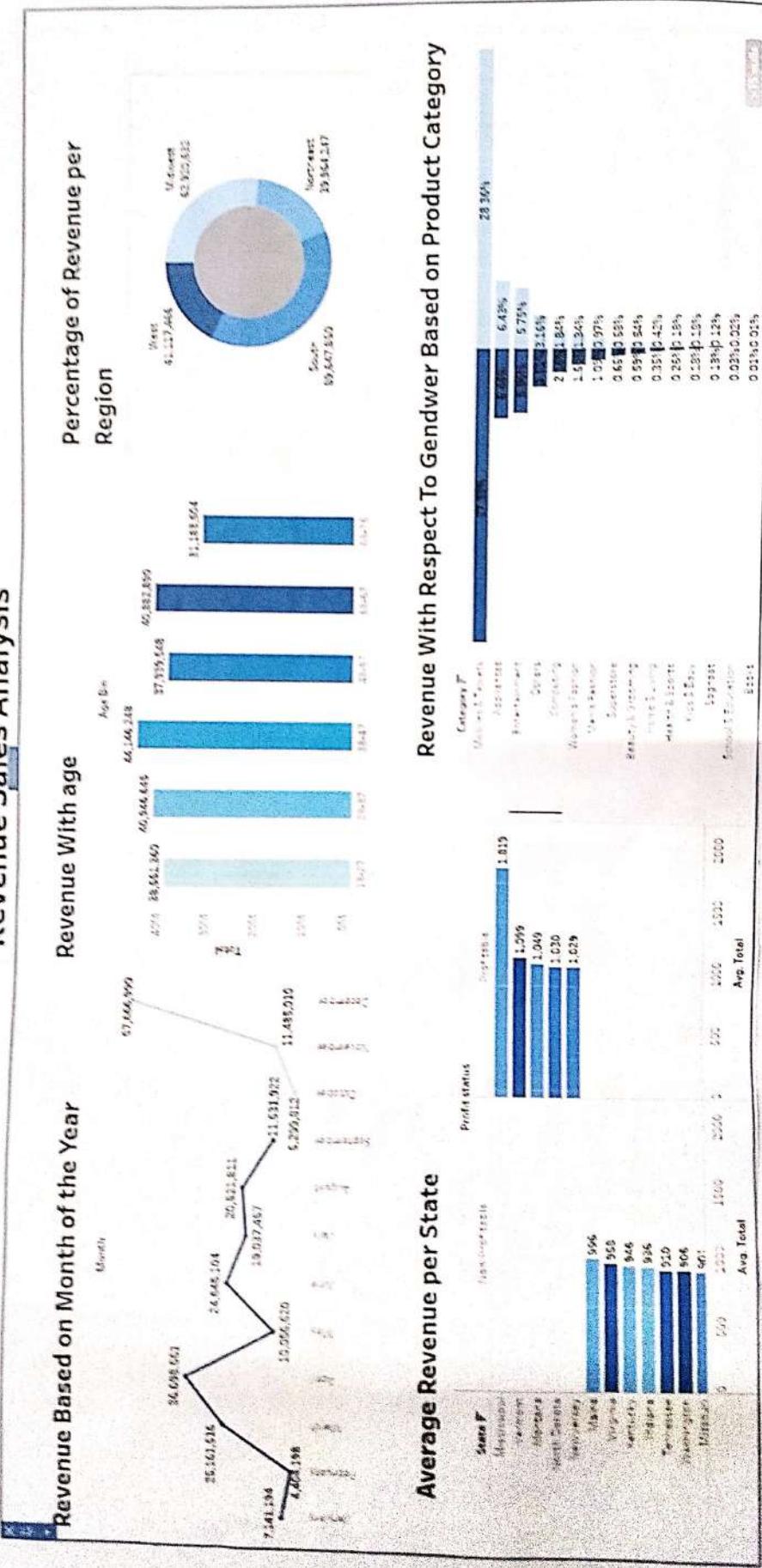


Program 3:-

Analysis of revenue in sales dataset:

- ii) Create a choropleth map (fill the map) to spot the special trends to show the state which has the highest revenue.
- iii) Create a line chart to show the revenue based on the month of the year.
- iv) Create a bin of size 10 for the age measure to create a new dimension to show the revenue.
- v) Create a donut chart view to show the percentage of revenue per region by creating local access for the calculated field.
- vi) Create a butterfly chart by mapping the bar chart to compare female & male revenue based on product category.
- vii) Create a calculated field to show the average per state & display profittable & non-profitable states.
- viii) Build dashboard.

Revenue Sales Analysis

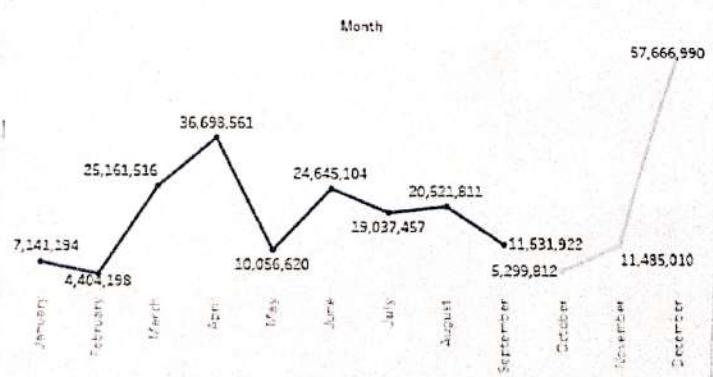


- i) Select state and click on Map to show the.
- ii) Add total to colors.
- iii) Add total to labels.

You can change the background if necessary.

- iv) Rows = Total col + month, right click & select month.
click on Total remove show header.
To edit any col, border & sheet right click on
sheet & go to format go to sheet & select grid
line as none.
- Select line chart put total to label & month
to colors.

Revenue Based on Month of the Year



D D M M Y Y Y Y

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if { create calculated field

if [Age] >= 18 AND ([Age]) <= 27 .

then " 18 - 27 "

ELSE IF [Age] >= 28 AND ([Age]) <= 37

then " 28 - 37 "

;

then " 58 - 67 "

ELSE " 68 - 75 "

ENDS .

Age bin → cal.

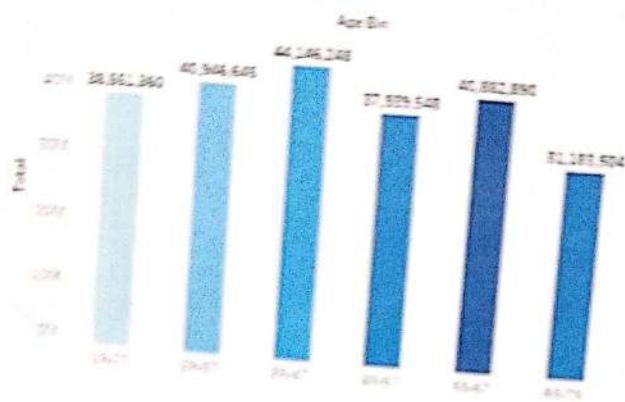
total → view

total → label

Entire view

Age - bin → color .

Revenue With age



Q18 Donut chart :-

- Add region to colour.
- Make the male to Pie chart & make entire view. add total to angle & type 0 in scores & then select it.
- Now change second to dual Axis.
- Increase the size on sum(0), add total to sum(0) & make it Percent of total.
- Add region to text
- Total to label & make it Percent of total

Q19 Calculation field :-

Female sequence

if [Gender] = "F"

then [Total]

END

Calculation field :-

Male sequence

if [Gender] = "M"

then [Total]

END

Category → scores

Female & Male sequence → cat. then sort in descending order by sum clicking on button on sheet.

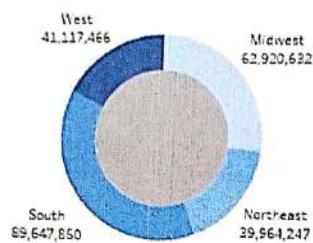
right click → edit axis → reverse

Shift → entire view

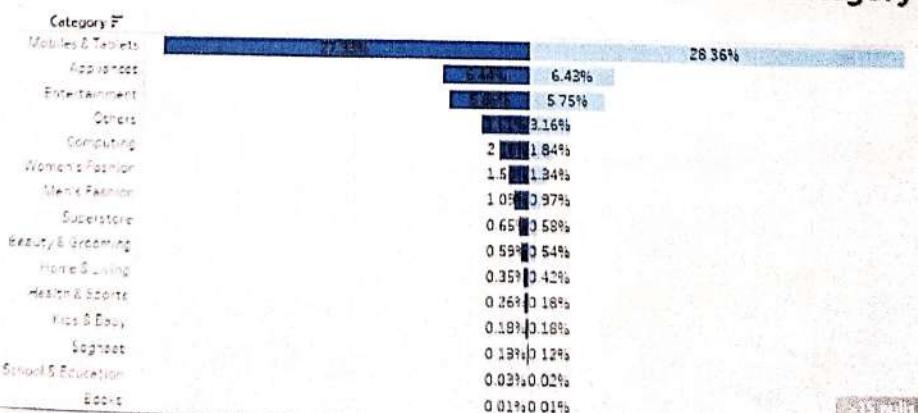
Gender → colour

Sum (Total) → click → %

Percentage of Revenue per Region



Revenue With Respect To Gendwer Based on Product Category



D D M M Y Y Y Y

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Avg revenue per state
v15 Total → col

Measure (Sum) → Avg
state → rows

Create calculate field

Profit states

if Avg ([Total]) ≥ 1000

then "Profitable"

else "Non-Profitable"

END

Apply OK.

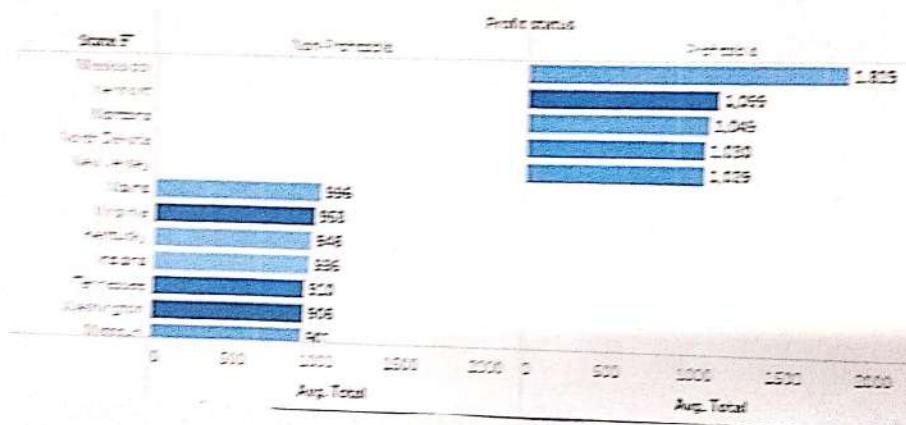
Profit states → col

State → colour

Total → label

Sum → Avg

Average Revenue per State



DD MM YYYY
20 01 2025

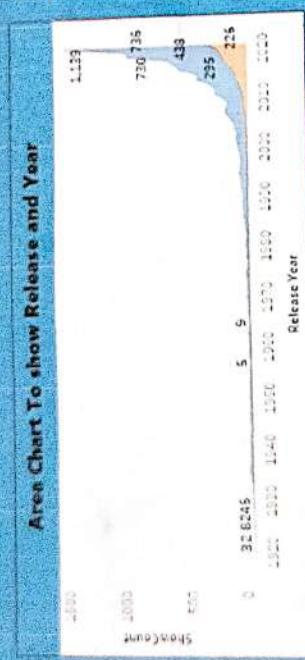
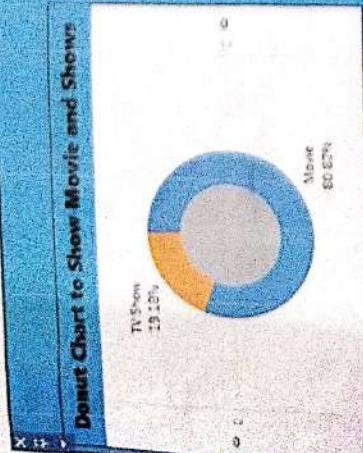
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Program 4 :- Analysis of Amazon Prime Dataset

Amazon Prime :-

- i) Create a donut chart to show the percentage of movie and tv shows.
- ii) Create a area chart to shows by release year and type -
- iii) Create a horizontal bar chart to show Top 10 genres.
- iv) Create a map to display total shows by country.
- v) Create a text sheet to show the description of any movie / movies .
- vi) Build an interactive dashboard .

Amazon Prime Data Set Analysis



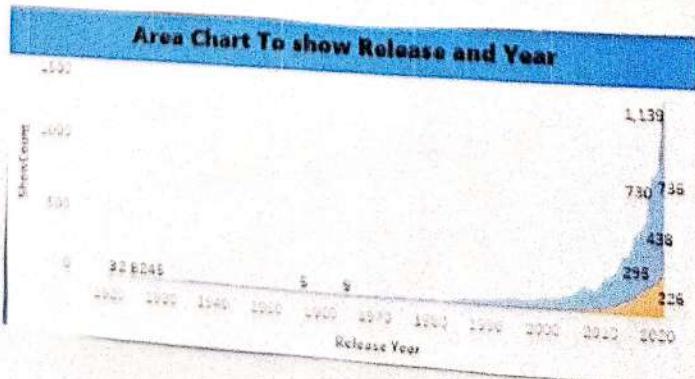
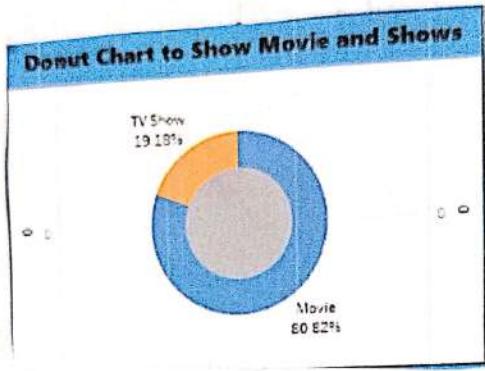
Distribution of *Microtus*

i) Donut chart :-

- * Create a Show count variable in create calculated field as COUNT([Show ID])
- * Also create a dummy variable zero with 0 value.
- * Change the view to entire view.
- * Add pie chart in mark.
- * Add type to colour.
- * Add ShowCount to Text, Angular size
- * Add sum (zero) to scores \rightarrow 2 times.
- * For the second sum (zero) remove all added type, ShowCount from colour, text.
- * Now remove the added type for first sum (zero).
- * Then right click on the sum & click on dual axis and synchronize axis.
- 2 Then increase size and adjust accordingly.

ii) Area chart :-

- * Select type, Reuse, ShowCount using step.
- * Then go to area chart in Show me.
- * Add type to text.

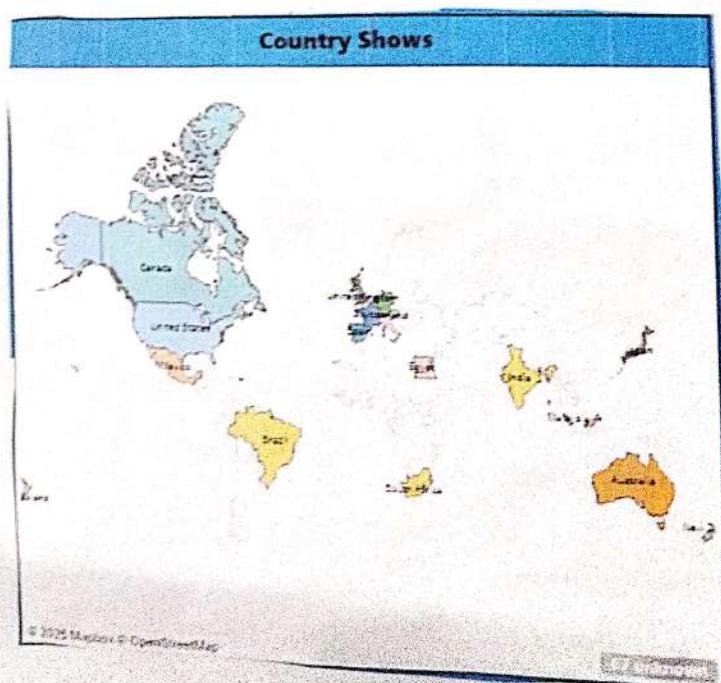
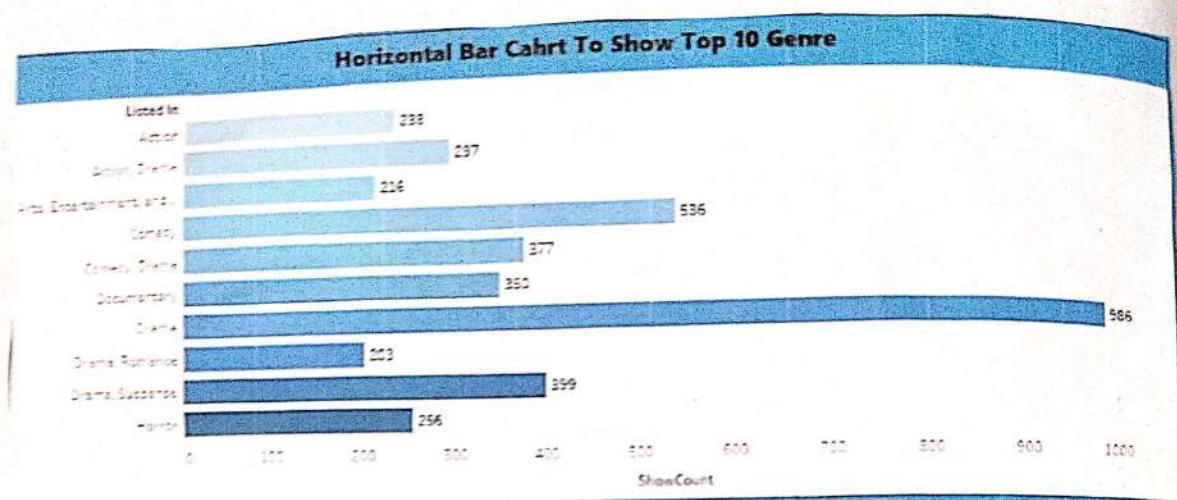


iii) Horizontal Bar chart:

- * Add detail in to filter & then select top & click on By field then click apply.
- * Select Showcount & listed in using ctrl.
- * Add bar chart from show me
- * Add type to colour & Showcount to label.

iv) Map:

- * Select Country & Show count using ctrl and then select map in Show me.
- * Add country to colour
- country to text
- country to detail.
- show count country to text
- show count to detail, size.
- * Right click on main screen & select a background colour (Select dark)
- * In Map select map in place of automatic.



* Text sheet

- * Select type put to filter & select only movies and click apply
- * Select description go to show me - Text
- * Select title and add to filter then choose only 3 from list then apply.

Creating a Dashboard

- * Select Dashboard options from the footer menu
- * Add title & drag and drop all sheets.
- * Adjust the using floating.

Description of Movies

Description

A visit from relatives overseas disrupts a New York couple's home life and initiates two unforgettable BFFs Hannah and Brooklyn, played by Jenna Ushkowitz (Glee) and Laura Ashley Samuels (Modern Family). Dr. Vaseegaran (Rajinikanth) and his android assistant Nila (Amy Jackson) are called in for help after m