⑤ Analysis of HR datasets

ⅰ) Create BI KPI to show employee Count, attrition rate, attrition Count, active employees and average age

ⅱ) Create a linear & Column stacked chart to show the attrition rate based on gender Categorye

ⅲ) Create a Pie chart to show the attrition percentage Based on Department Categorye - Drag department into Colours and change automatic in Pie Entire View, Drag attrition Count to angle

ⅳ) Create a bar chart to display the number of Employee by Age group

ⅴ) Create a highlight table to show the Job Satisfaction Rating for Each job role based on Employee count

ⅵ) Create horizontal bar chart to show the attrition Count for Each Education field wise attrition - drag educational field to rows

ⅶ) Create multiple donut chart.

Sol: ⅰ) Import the HR details CSV file → click Quick/ (new measure) → Enter the DAX Query (Data Analytics Expression) → Enter formula Employee Count = COUNT (CHR (HR [Employee Number]))
→ go to Visualization → Select Card → Enter Employee Count as field Values → For attrition Count as field Values → For attrition Count → click on new measure/ new Column → Enter DAX attrition Count = COUNTROWS (FILTER ('HR', HR[Attrition] = "Yes")
→ For attrition rate → again go to new measure
→ Enter DAX Attrition rate = DIVIDE ([attrition Cant]

[Employee Count], 0) * 100 (0 to avoide Divide by 0 infinity error) → active Employee → DAX active Employee = [Employee Count] - [active Count] → Average age → DAX Average age ≥ Average (HR[Age])

(ii) Select line and Column Stacked chart → In x-axis field add Gender in Column y-axis add attrition Count → In the line y-axis add attrition rate → Graph is Obtained

(iii) Click On Piechart → Provide Department in field legend → give attrition Count & attrition rate in Values field

(iv) Right click on 3 dots on age → Select new group → change Bin Size to 10 to make group of ages with 10 years in between → select stacked Column chart → x-axis is age bins & y-axis is Employee Counts.

(v) Select matrix option → In rows field provide job role → In Column field Job Satisfaction, in Value field Employee Count → The matrix is Obtained

(vi) Select stacked bar chart → In y-axis field Enter Education field → In x-axis Enter attrition rate Count.

(vii) Select donut chart → In legend field Enter Gender → In Values field Enter attrition Count, in details

Enter age bins → In filters advanced filters →
age bins → In filters advanced filters → age
bins → less than 30/more than 30.

(6) Analysis of Amazon Prime DataBase
(i) Create a Donut chart to show the percentage of movie and Tv shows
(ii) Create a Area chart to show by release year and type.
(iii) Create a horizontal bar chart to show Top 10 genere.
(iv) Create a line chart for Total show by Country.
(v) Create a text sheet to show the description of any movie/movies.
(vi) Build an interactive dashboard.

Sol:- Blank report → CSV/textfile → Amazon titles csv file
→ click Transform → rename file to Amazon →
click OK & procede.

(i) Select donut chart → Enter movie type in legend field →
Show id in y axis field → Then go into filters →
Type → Select only movies & Tv shows.

(ii) Select Area chart → Put release year in x-axis → Type in
y-axis & legend

(iii) Select clostered chart → In Y-axis field list-in →
in x-axis put Count of title → go to advanced filtering
→ listed-in → filter type TopN → Top10 → By
value First listed-in

iv) Select line chart→ in x-axis listed in → in y-axis
   Count of Country

v) Select table → in Columns field add title & descrip
   - tion values.

① Analysis of Revenue in Sales Database Sahg

(i) Create a line chart to show the revenue based on the month of the year

(ii) Create a bin of size 10 for the age measure to create a new dimension to show the revenue

(iii) Create a donut chart View to show the Percentage of revenue Per region by creating zero access in the Calculated field

(iv) Create a butterfly chart by reversing the barchart to compare female & male revenue based on the Product Category

(v) Create a Calculated field to show the average revenue per state & display profitable & Non-profitable state

(vi) Build a dashboard.

Sol:

(i) Select line chart from Visual → Enter month in X-axis field → Enter revenue in y-axis field

(ii) Right click on Customer age → Select BinSize → Enter 10 and Click ok

Select Stacked bar chart → Enter Customer age in X-axis → Enter Customer Revenue in y-axis

(iii) Select donut chart from Visuals → give state in Legend field → and revenue in value field → then go to Visuals → Data labels → Data labels → change position to inside

iv) Select a Stacked Column chart → In x-axis field
add Product Category, in y axis field Sum of
Revenue, in Legends put Customer gender → go to
filter → Product Category → select all except Blank

v) Create page2 → go to page2 → click new measure
→ Type the dax average rev = AVERAGE×(VALUES
(SalesTable[State]), CALCULATE(Sum((
SalesTable[Revenue])))) → Create the field

→ Enter table Visuals → In Column field Enter
State & average revenue → click on new Column

→ Enter DAX Profitable = IF(Caverage rev] > 1500,
"Profitable", "Non Profitable")

**10)** Create a tableau dashboard to analyze Global Terrorism trends using global Terrorism data-Base. Create a tableau dashboard to following Questions.

     (i) How has the no. of terrorist incident changed Over the years

     (ii)          Which Countries     have Experienced highest no of incidents

     (iii) What are the most Common types of Terrorist attack how do they Compare across region

     (iv) Find Out which locations are targetted by terrorists.

**Sol:** (i) Open tableau → Text file → import Global Terrorism database → drag & drop year in Columns → Event id in rows Column → Then Go to marks & Select line chart → Then go to year in Column now → go to dimensions → click → line chart is obtained → add Event id in marks Column → change it to labels → click and Go to measure → Select Count.

(ii) Select map is marks → drag Country Txt → Then drag Event id & change to Colours → drag and drop logitude in Column, latitude in Rows → put Country Txt, Event id in marks and change to label.

(iii) Select RegionText put it in columns → drag and drop Eventid in Rows → Put attacktype in marks and change it to Colours → Select Stacked bar charts → Then Click on any Sorting format → put attack type 1 in Filters → Go to Click ByField change it to Top 5 → Count.

(iv) drag and drop Targets in Columns field → then drag and drop Event id into rows → change Event id Count → Put target 1 in marks & change to Colours → Then put Event-id in marks & Change to label → then drag & drop Attacktype into marks & change to Colours.