(11) Analysis of HR Datasets.

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

(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 Departments Category - Drag department into Colors and change automatic to Pie. Entire View, Drag attrition Count to angle

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

(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 Education Field wise attrition - drag education field to rows

(vii) Create multiple donut charts

Sol (i) Import the HR details CSV file → click Quick/new measure → Enter the DAX Query (Data Analytics Expression) → Enter Formula Employee Count = COUNT ((HR(HR[Employee Number])))

→ go to Visualization → Select Card → Enter Employee Count as field Values

→ For attrition Count → click on new measure → Enter DAX attrition Count = COUNTROWS (FILTER ('HR', HR[Attrition] = "Yes")) → For attrition Count → again go to new measure → Enter DAX Attrition rate = DIVIDE ([attrition Count], [Employee Count], 0) * 100 (0 to avoid Divide by 0 inbuilt 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 Y axis add attrition rate → Graph is obtained.

(iii) Click on piechart → Provide Department in Field ~~chart~~ 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 inbetween → Select Stacked Column chart → x axis is age bins & y axis is Employee Counts.

(v) Select matrix option → In Rows Field provide JobRole → In Column Field JobSatisfaction, in Values Field Employee Count → the matrix is obtained

(vi) Select Stacked bar charts → In Y-axis Field Enter Education Field → in X-axis Enter attrition Count ~~& Sum~~

(vii) select donut chart → In legends Field Enter Gender → In Values Field Enter attrition Count, in Details Enter age bins → In Filters advanced Filters → age bins → less than 30 / more than 30

(12) Analysis of Amazon Prime Datasets

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 Top10 genre

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.

→ (iv) Create a line chart for total shows by Country.

Sol: Blank report → csv/text file → Amazon titles csv file → Transform → rename file to amazon → click ok & Proceed.

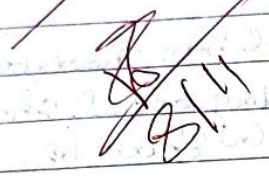
(i) Select donut chart → Enter movie type in legend field → show id in Y axis field → then go into filters → Type → Select only movies & TV shows.

(ii) Select area chart → put release year in X-axis → ~~Co~~ Type in Y axis & legend.

(iii) Select clustered chart → In Y axis field listed_in → in X axis Count of title → go to advanced filtering → listed in → filter type ~~...~~ Top N → Top 10 → By value First listed_in

(iv) Select line chart → In x-axis Published in
→ In Y_axis Count of Country

(v) Select Table → In Coloumns Field add Title
& description Values.



① Analysis of Revenue in Sales Datasets . . . . . etc

Sol: (i) Not doing (No need for in ou Coord)

(ii) Select line chart from Visual
→ Enter month in x-axis field
→ Enter revenue in y-axis field.

(iii) Right click on Customer age → Selects Binsize → Enter 10 and ok

Select stacked bar chart → Enter Customer age in x-axis → Enter Customer Revenue in yaxis.

(iv) Select donut chart from Visuals → give shake in Legend field → and, Revenue in Value field → then go to Visuals → Data labels → change position to inside

(v) Select a stacked column chart → in x-axis field add product Category, in Y axis field Sum of Revenue, in Legends put Customer gendor → go to filter → product Category → Select all except Blank.

(vi) Create page → go to page → click ~~new~~ measure
→ Type the dax average rev = AVERAGEX (VALUES (SalesTable[state]), ~~Calculate~~ CALCULATE (SUM ((Sales Table [Revenue])))
→ create the field → Enter table visual
→ In column field Enter state & averagerevenue
→ click on new column → Enter DAX Profitable
IF([average rev]>1500, "Profitable", "Non Profitable")

(Q) Create a tableau dashboard to analyze Global Terrorism trends using global Terrorism database. 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

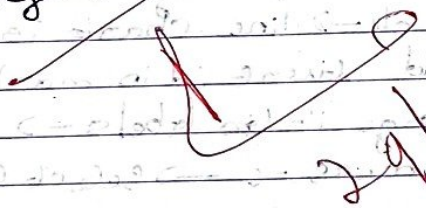
(iv) Find Out which locations are targeted by terrorist

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 row → 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 in marks → drag Country Txt → then drag Eventid & change to Colours → drag and drop Longitude in Column Latitude in Rows → put Country Txt, Event id in marks and change to label.

(iii) Select RegionTexts put it in Columns → drag and drop EventId in Rows → Put AttackType in marks and change it to Colors → Select Stacked bar charts → then click on drop Sorting format → Put AttackType in Filters → Go to Top → click By field, change it to Top 5 → Count.

(iv) drag and drop Targets in columns field → then drag and drop EventId into rows → change EventId to Count → Put Target-1 in Marks & change to Colors → then put EventId in marks & change to Label → then drag & drop AttackType into marks & change to Colours.



Q Analyse and visualize the
(a) Distribution of the 2 and 4 doors with respect to the type and fuel they use
(b) Distribution of cars of different body styles with respect to type of fuel they use
(c) Total no. of each type of body style are categorized by fuel type
(d) Horse power of each of the fuel type with respect to type of wide wheel present in cars.

Sol: a) Drag "num of doors" to Columns → drag "fuel type" to rows → click "▼" on fuel-type → click on measure and then Count
Drag "fuel type" to marks and select colour → drag another "fuel type" and select labels.
Drag "fuel type" click on "▼" → click measure and then Count & select it as label.