

Visualization Exam -1



- **All the Questions are required to be completed using Tableau.**
- **You must submit the Tableau in the Git and Update on the Excel sheet Shared in the group with proper comments.**
- **All the data for questions asked below is available in Excel Attached.**

A company take all its decisions based on the insights that's get generated from the excel. But it is more of a manual work. The company CEO is looking for some dynamic Data visualisations tools to meet the requirements. As a proof of concept, you have to built and create visualisations on the below problems shared by the client.

1. The Client needs a dummy wireframe before building the actual visualisations and dashboards.
2. The client also needs the estimates in building and developing this POC.
3. The above two parameters need to be drafted in a presentation and have to share by **Friday**.
4. The actual visualisations (Dashboards/Reports) have to be shared with some insights as a key point mentioned in the PPT. The link is to be shared to the Google Sheets and the presentation needs to be updated in the Git Hub. Last Day of Submission is **Sunday**.

Question 1: Draw a horizontal bar chart for top 10 themes having count of Start-ups within each of these themes.

Question 2: Draw a radar chart having Top 10 Tier 1 Investors and numbers of Start-ups they had invested in.

Question 3: Visual represent Start-ups by top 5 countries and Theme.

Question 4: Select 5 CDMS IDs (Random) from the Excel sheet and remove the data row corresponding to these IDs from the table and Export it back to excel after removing these 5 start-ups.

Question 5: Calculate Z-score for investment data (all metrics) and find the corresponding value for the Z- Score which is just greater than (next highest than) or equal to 3.5. Also show the underlying data points for each metrics.

Question 6: Draw a stacked Bar chart showing Top 5 countries by series of funding (count of Start-ups in each series). Series A to D should be shown independently and a single entity for Series E and above.

Question 7: Draw a Heat Map between themes and sector, themes on x axis and sector on y axis. Use different shades of same colour highest intensity being 1(darker shade) and 0 being lowest



intensity (lighter shade).

Question 8: Draw Donut charts for top 5 countries showing their respective top 8 sectors by %.

Question 9: Draw a bubble chart for count of Start-ups divided into three stages: Seed & Early Stages,

Growth and Later stage.

Question 10: Draw a vertical stacked bar chart for top 5 themes, their count of Start-ups by top 5 countries.

Mention the Insights driven from the visualisations in the presentation. The more the insights, the better marks. Use of More analytics and creativity will be a plus point.
