Instructions for Devyani: Visualizing Market Research Data

Objective: To effectively visualize and present the collected data from various stakeholders in a clear and dynamic format that can be updated daily.

Step-by-Step Approach:

1. Identify Key Metrics and Data Points:

- Student responses
- Company responses
- Placement cell responses
- Competitive analysis insights
- KPIs (Growth, Research Accuracy, Research Timelines, Stakeholder Satisfaction, Innovation Index)

2. Choose Appropriate Visualization Tools:

- Microsoft Excel or Google Sheets for basic charts and graphs.
- Looker Studio for more advanced and interactive dashboards.
- Tableau or Power BI for comprehensive and professional data visualization (if available).

3. Create Visual Templates:

- Daily Progress Charts:
 - Line charts to show daily growth in student and company responses.
 - Bar charts to compare actual responses vs. target responses.
- KPI Dashboards:
 - Gauge charts or bullet graphs to show performance against targets.
- Comparative Analysis:
 - Bar or column charts for competitive analysis.
 - Heat maps for identifying trends and patterns.
- Stakeholder Satisfaction & Innovation Index:
 - Pie charts or donut charts to represent satisfaction levels.
 - Simple count or bar chart for innovation methods used.

4. Dynamic Data Integration:

- Set up a central data repository (like a Google Sheet or Excel file) where daily data can be updated.
- Link this repository to your visualization tool to ensure real-time updates.

5. Implementation Plan:

- Data Collection:
 - Continue collecting data daily as you have been.
 - Ensure data is entered into the central data repository.

Visualization Creation:

- Use the chosen tools to create the initial set of charts and dashboards.
- Set up automatic updates if using advanced tools like Looker Studio, Tableau, or Power BI.

- Daily Updates:
 - Update the central data repository with new findings daily.
 - Review the visualizations to ensure they reflect the latest data.
- Reporting:
 - Incorporate the visualizations into your daily report.
 - Highlight key insights and trends observed from the data.

6. Example Visualization Plan:

Line Chart for Growth Percentage:

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A1: Date | B1: Student Growth (%) | C1: Company Growth (%)
A2: 10-06 | B2: 10% | C2: 15%
A3: 11-06 | B3: 17.56% | C3: 25%
```

■ Create a line chart using columns A, B, and C.

Bar Chart for Actual vs. Target Responses:

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A1: Category | B1: Actual Responses | C1: Target Responses A2: Students | B2: 87 | C2: 60
A3: Companies | B3: 10 | C3: 10
A4: Placement Cells | B4: 2 | C4: 6
```

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Create a bar chart comparing columns B and C.

KPI Dashboard:

Use gauges to show overall KPIs for students, companies, and placement cells.

7. Continuous Improvement:

- Regularly review the effectiveness of the visualizations.
- Gather feedback from stakeholders on the clarity and usefulness of the visual reports.
- Make adjustments as needed to improve comprehension and impact.

Implementation Example in Google Sheets:

1. **Create a Google Sheet** with the following tabs:

o Raw Data: for daily data entry.

• Visualizations: for creating charts and graphs.

2. Set up Charts:

- Insert charts in the "Visualizations" tab linked to the data in the "Raw Data" tab.
- Use the "Chart Editor" to customize the type of chart and data range.

3. Embed Dashboard:

- If using Looker Studio, connect your Google Sheet and create an interactive dashboard.
- o Share the dashboard link with stakeholders for real-time access.