Experiment-6

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1.Aim Of Experiment :- Create Report and Dashboard in Tableau.
**Connect to Your Data**
- **Open Tableau** and connect to your data source. Tableau supports various data sources, including Excel, SQL databases, and cloud services.
- Once connected, **explore the data** in the Data Pane to understand its structure and available fields.

Connections   Add

ds_salaries
Text file

Files   🔎

☐ Use Data Interpreter
   Data Interpreter might be able to
   clean your Text file workbook.

⊞ ds_salaries.csv
⊞ Full Name,UID,M...t-2,End Ter.csv

ds_salaries.csv

ds_salaries.csv   ▼   12 fields 607 rows
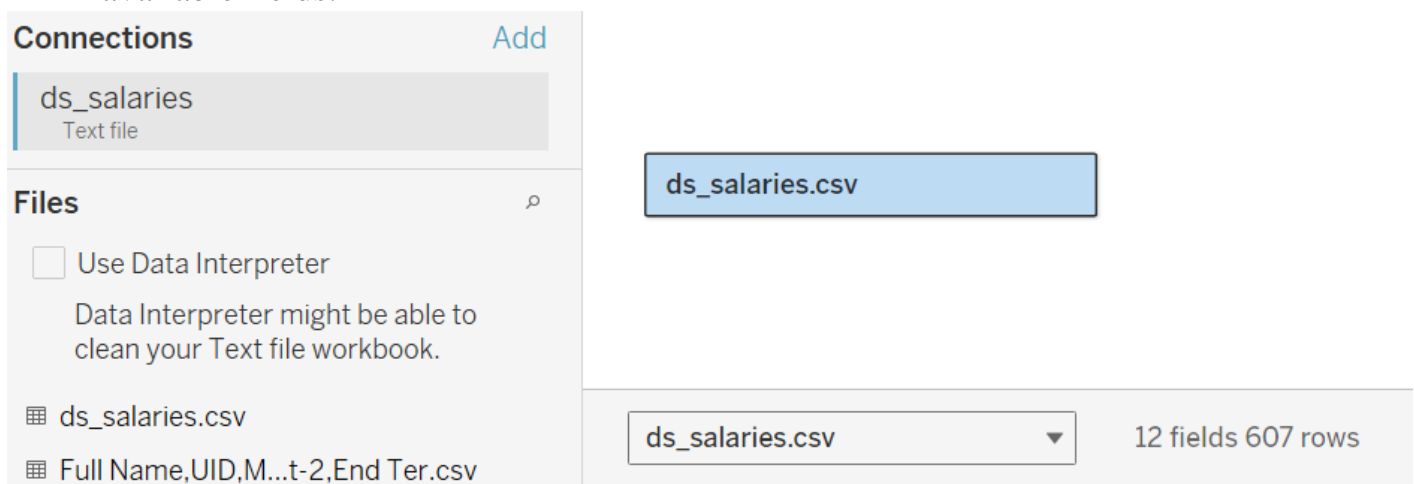
2. Build Visualizations
- Start by dragging fields from the Data Pane to the **Rows** and **Columns** shelves to create basic charts.
- **Use Show Me**: Tableau's "Show Me" feature suggests appropriate chart types based on the selected data.
- Experiment with different types of visualizations, such as **bar charts, line charts, maps, or scatter plots**, depending on your data and analysis needs.
- **Customize your visualizations** with colors, labels, filters, and tooltips to enhance clarity and interactivity.

Employement Type

Part Time
0.56%

Freelance
0.85%

Full Time
97.46%
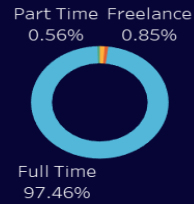
Filters

Employee Reside..
Company Locatio..

Marks

Automatic

Color Size Label

Detail Tooltip

CNT(Employee..

Top 10 Employee Residence

Residence	Count
US	330
IN	4
BR	3
GR	1
FR	1
ES	1
DE	1
CA	1

0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 310 320 330 340 350
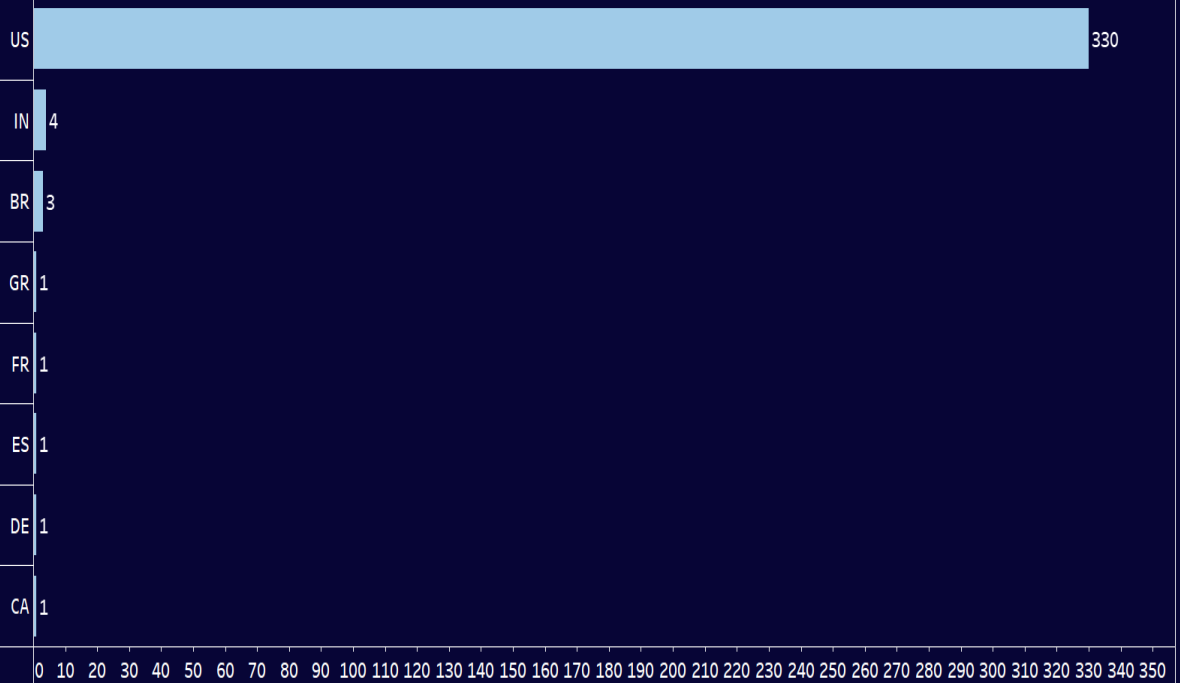
Map : Average Salary by Country

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Average salary by job title and experience level

| Job Title	Experience Level	Salary
AI Scientist	Intermediate	160,000
	Entry Level	12,000
Analytics Engineer	Senior	195,000
	Expert	155,000
Applied Data Scientist	Senior	278,500
	Intermediate	157,000
Applied Machine Learning S..	Intermediate	178,800
BI Data Analyst	Expert	150,000
	Intermediate	78,086
	Entry Level	55,000
Big Data Engineer	Entry Level	70,000
Business Data Analyst	Intermediate	135,000
	Entry Level	100,000
Cloud Data Engineer	Senior	160,000
Computer Vision Engineer	Entry Level	125,000
	Senior	60,000
Computer Vision Software Engineer	Intermediate	95,746
	Entry Level	70,000
Data Analyst	Expert	120,000
	Senior	115,117
	Intermediate	95,751
	Entry Level	73,833
Data Analytics Engineer	Intermediate	110,000

3. Create Calculated Fields (if needed)

- If you need additional fields that aren't directly available in your data, you can create **calculated fields**.
- For example, you could calculate a **percentage difference**, a **ranking**, or even classify values based on conditions.
- Use Tableau's **Calculation Editor** to write custom formulas.
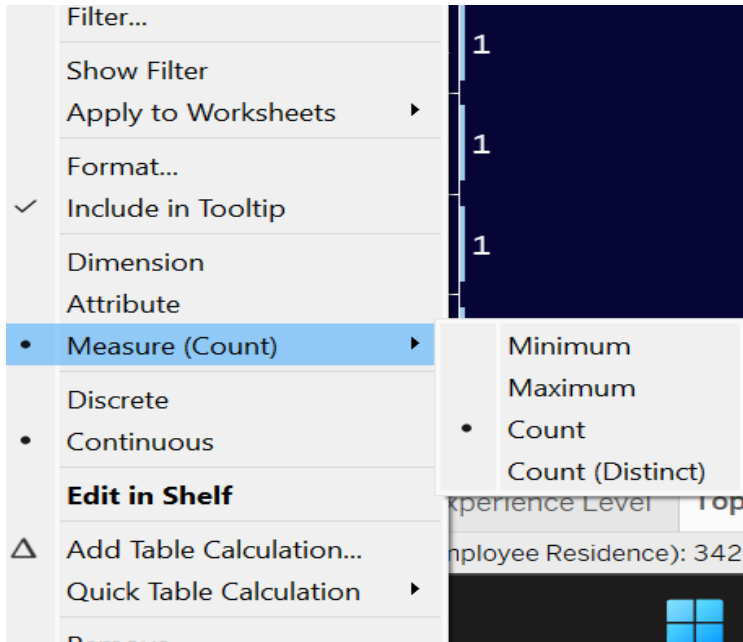
4. Build the Dashboard

- Go to **Dashboard** > **New Dashboard**. You'll see a blank canvas where you can arrange and resize your visualizations.
- Drag individual sheets (visualizations) into the dashboard. Tableau will automatically align and fit them.
- **Add interactive elements**, such as filters or parameters, to let users customize the view.
- Consider adding **text boxes** for titles and captions, **images**, or **web pages** if you need to embed external content.
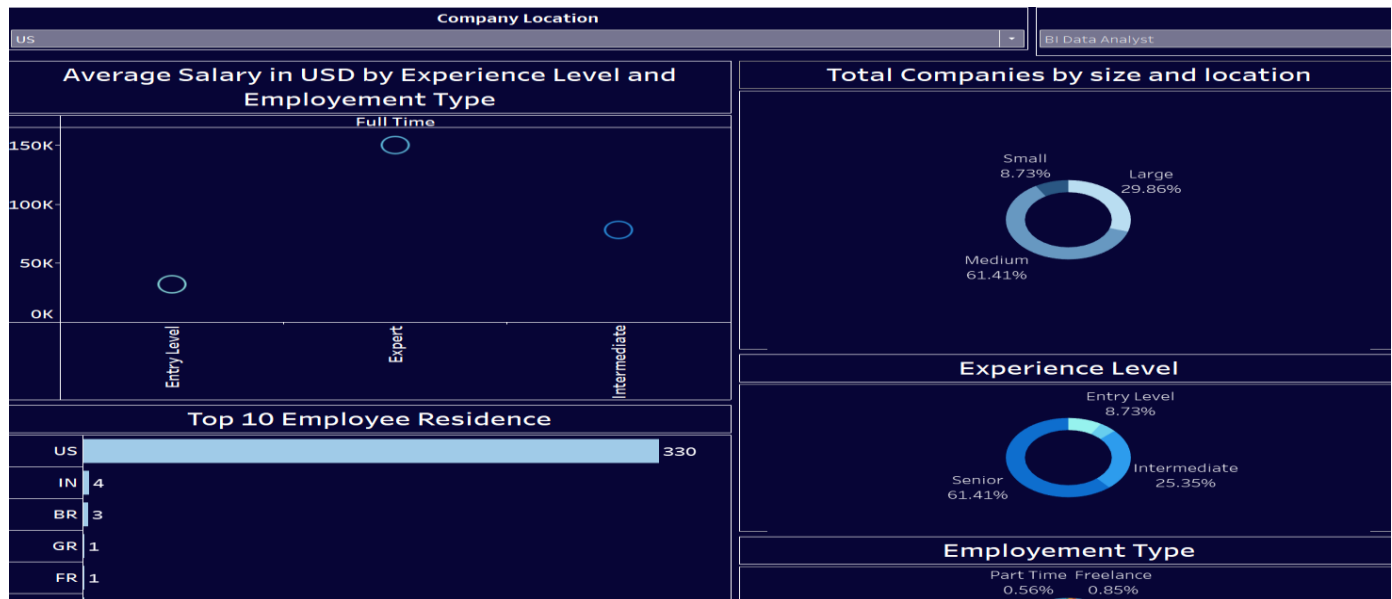
Learning Outcomes:

1. **Data Connection & Preparation**: Connect to various data sources, clean, and organize data for visualization.
2. **Data Visualization**: Create and customize a variety of charts and graphs for clear insights.
3. **Dashboard Design**: Build interactive dashboards, combining visualizations and adding filters for user engagement.
4. **Interactivity**: Use actions and parameters to enable dynamic, user-driven exploration of the data.