JOB ANALYTICS

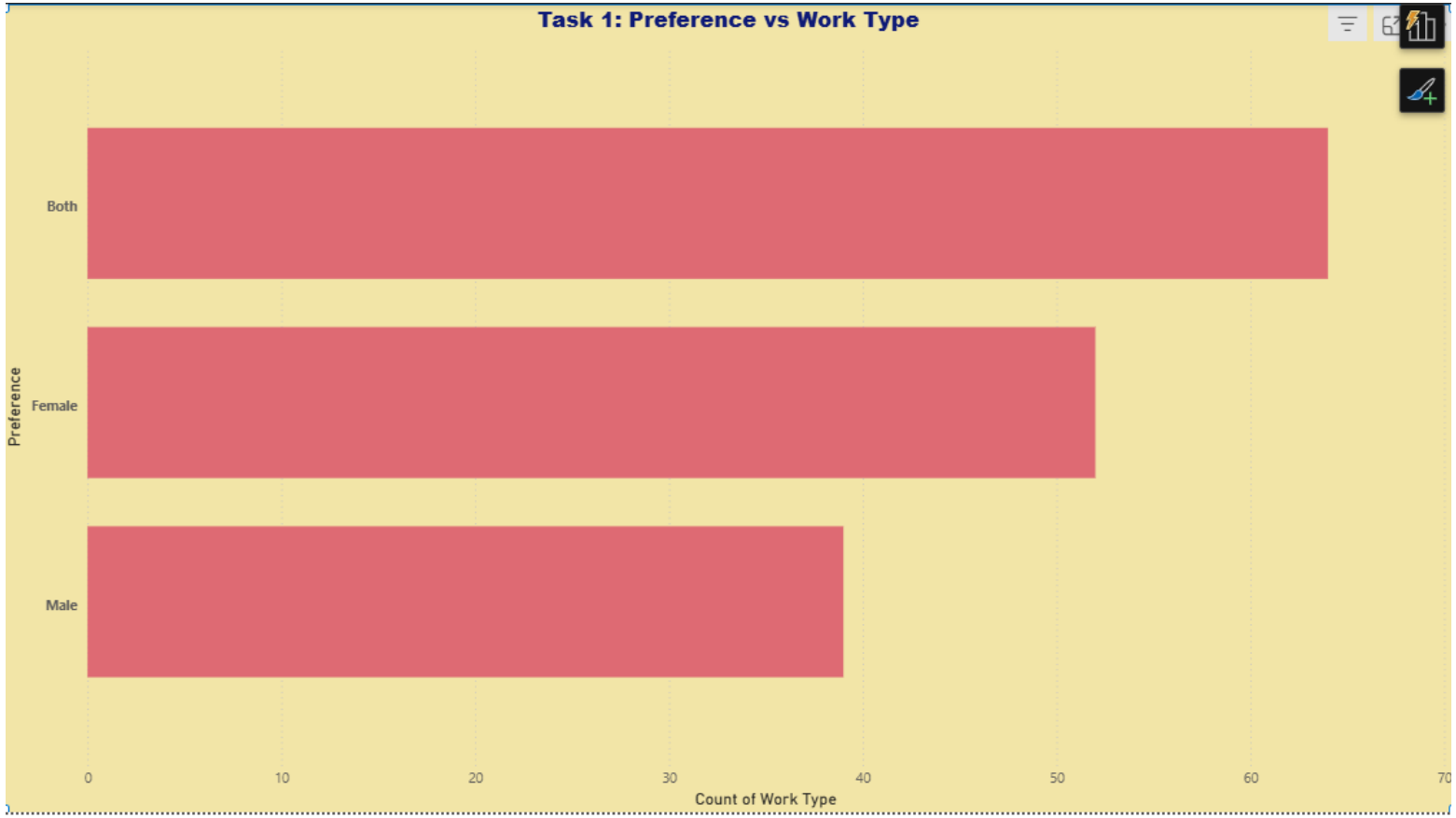
DOMAIN – DATA ENGINEERING

TOOL – Power BI

TASK – 1
Preference vs Work Type (Intern – Bar Chart)

Objective

Analyze internship job postings by Preference under specific geographic, salary, and experience constraints.

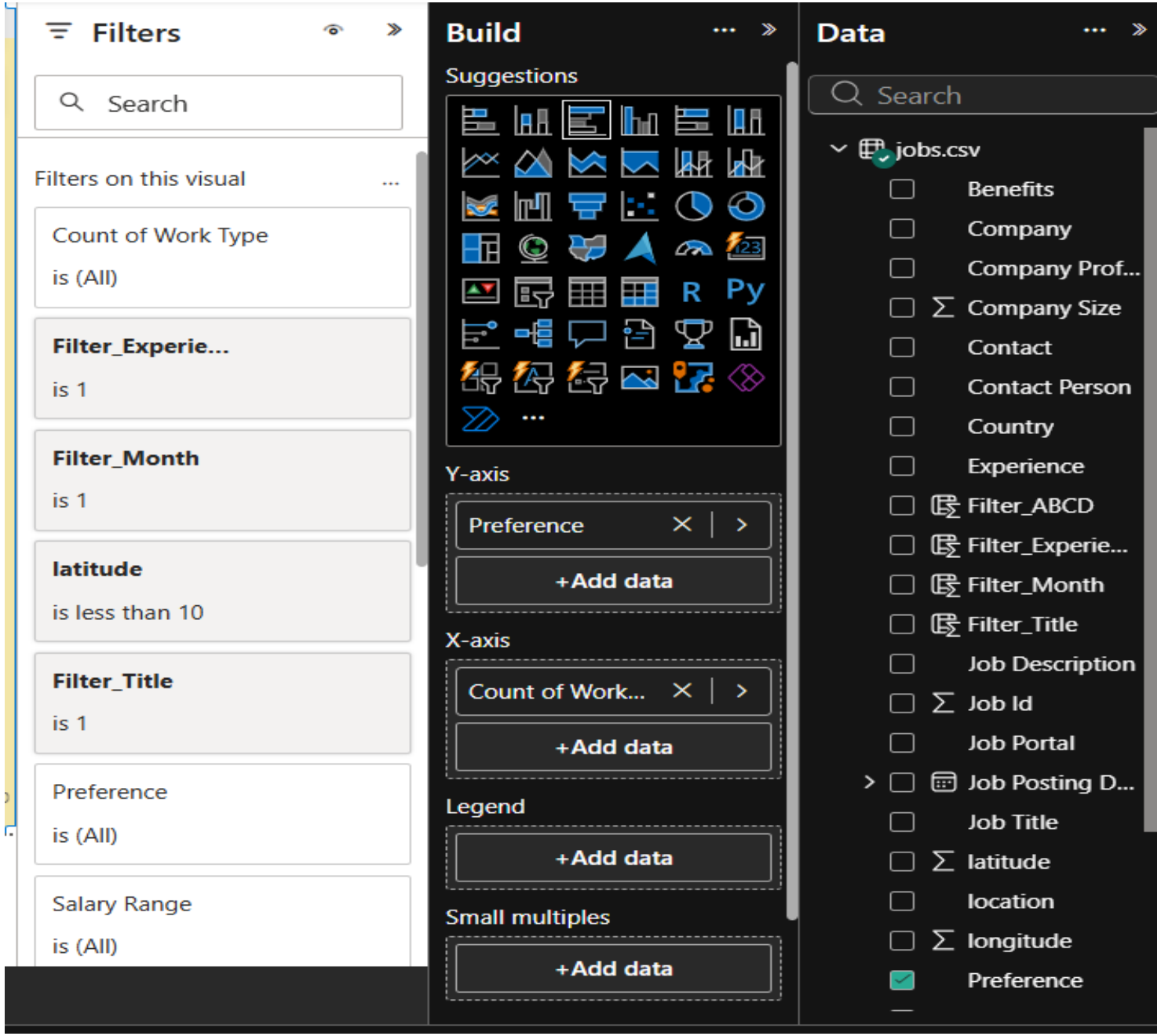


Key Filters

- Work Type: Intern
- Latitude < 10
- Company Size < 50,000
- Salary > $9,000
- Experience: even numbers only
- Job Posting Month: odd months

Visualization

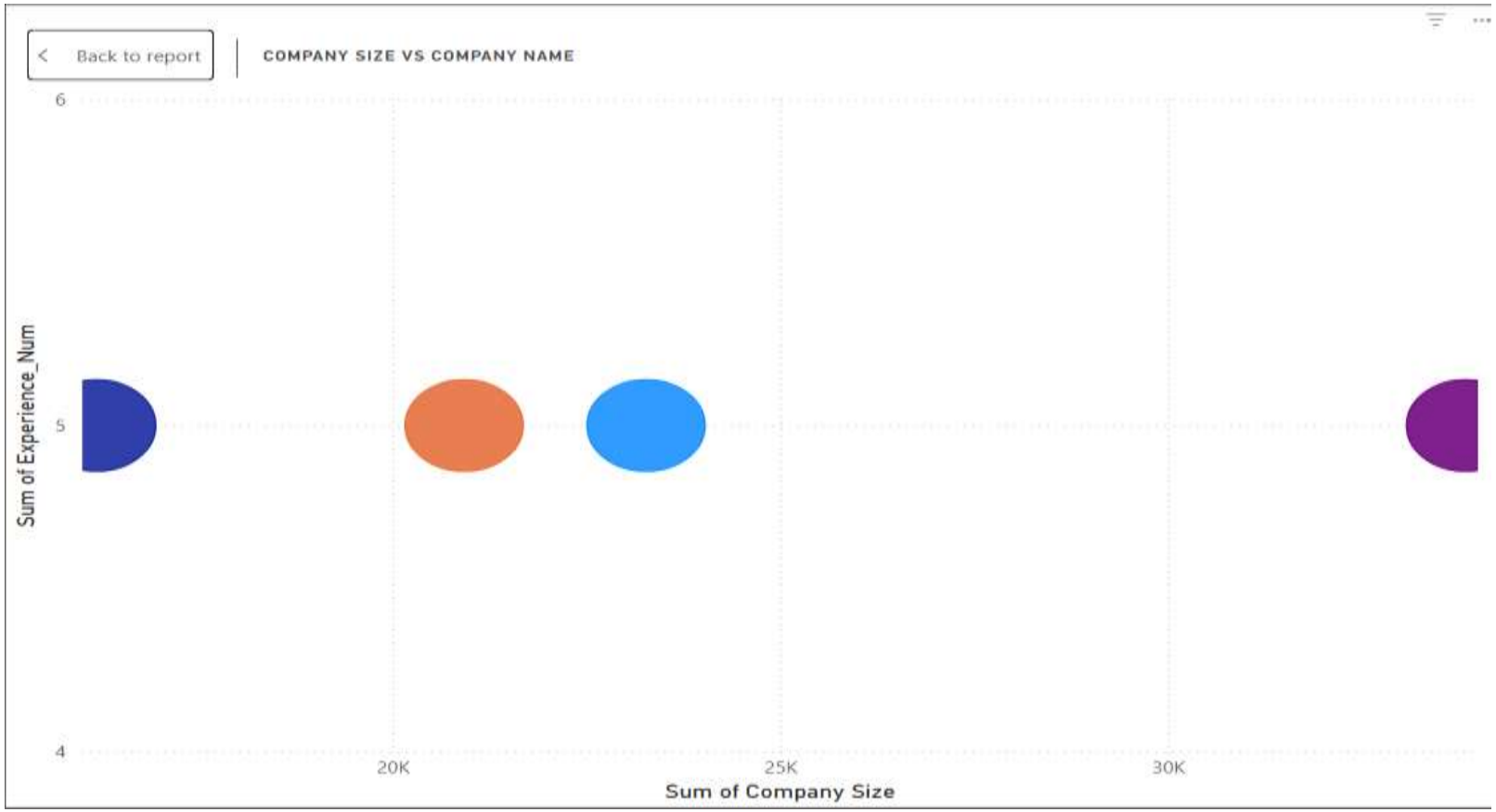
- Horizontal bar chart
- X-axis: Count of Work Type
- Y-axis: Preference
- Sorted in descending order



Task - 2
Company Size vs Company Name (Scatter Plot)

Objective

Analyze the relationship between company size and company name for Mechanical Engineer roles under strict job, demographic, and geographic constraints.

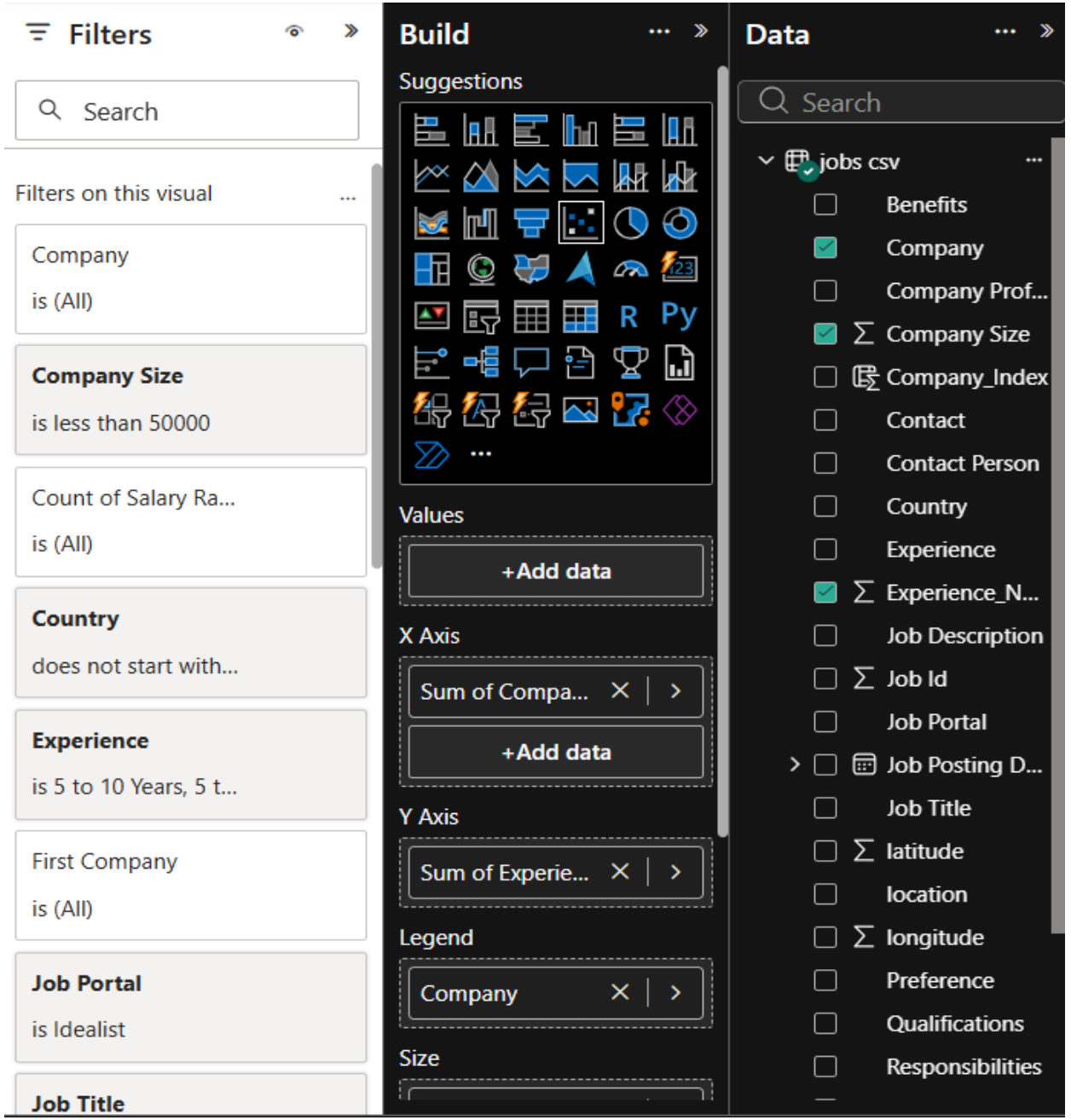


Key Filters

- Job Title: Mechanical Engineer
- Company Size < 50,000
- Experience > 5 years
- Salary > $50,000
- Country: Asia (excluding countries starting with “I”)
- Work Type: Full-Time or Part-Time
- Preference: Male
- Job Portal: Idealist
- Company Name: at least 2 vowels

Visualization

- Scatter Plot
- X-axis: Company Size
- Y-axis: Company Name



Task - 3
Top 10 Companies (Tree Map)

Objective

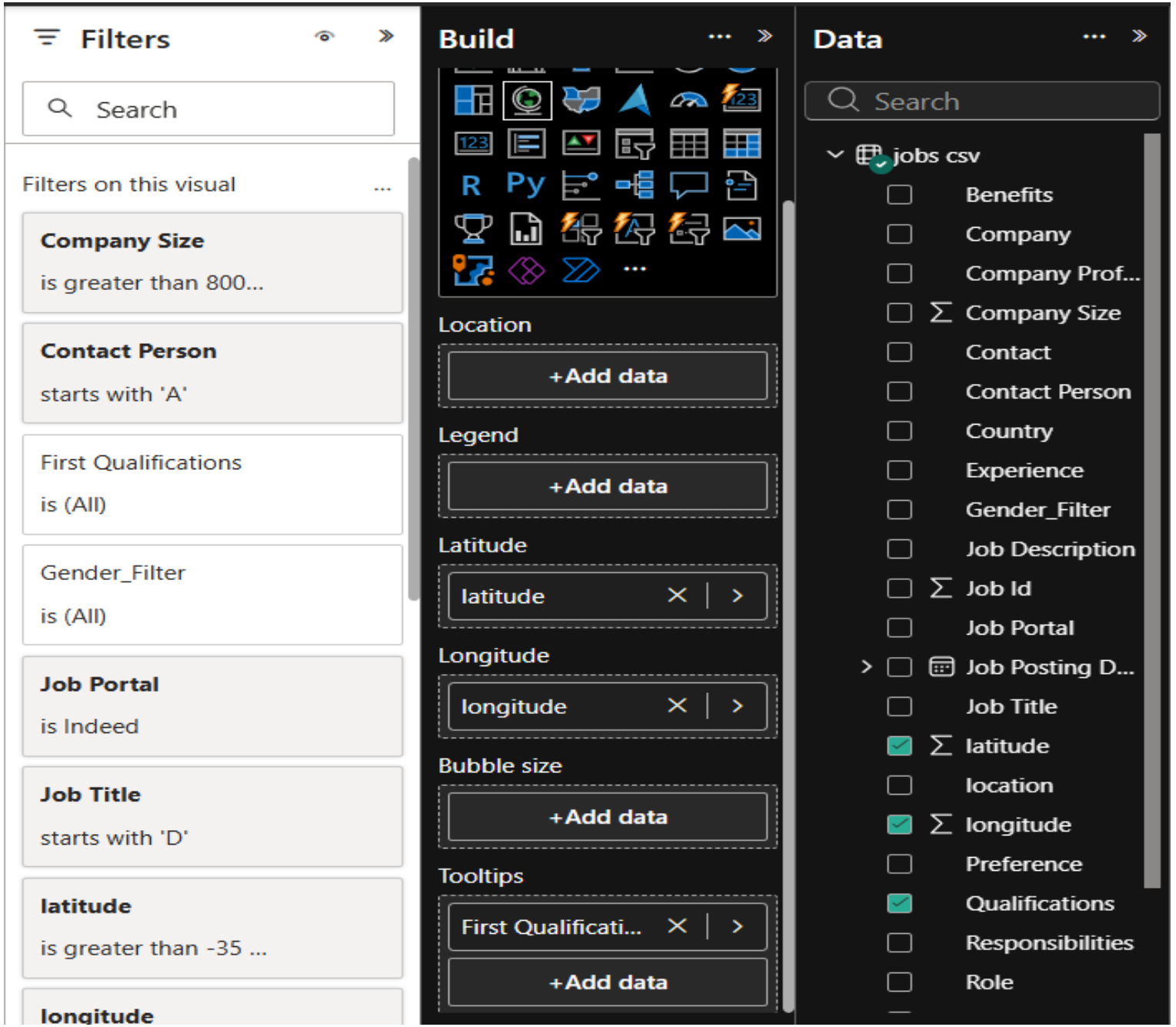
Identify the top 10 companies hiring for Data Engineer and Data Scientist roles under specific qualification, location, and posting constraints.

Key Filters

- Role: Data Engineer
- Job Title: Data Scientist
- Exclude Asian countries
- Exclude countries starting with “C”
- Latitude < 10
- Preference: Female
- Qualification: B.Tech
- Company Size ≥ 10,000
- Job Portal: LinkedIn
- Job Posting Date: 01/01/2023 – 06/01/2023
- Contact Person: ends with a vowel

Visualization

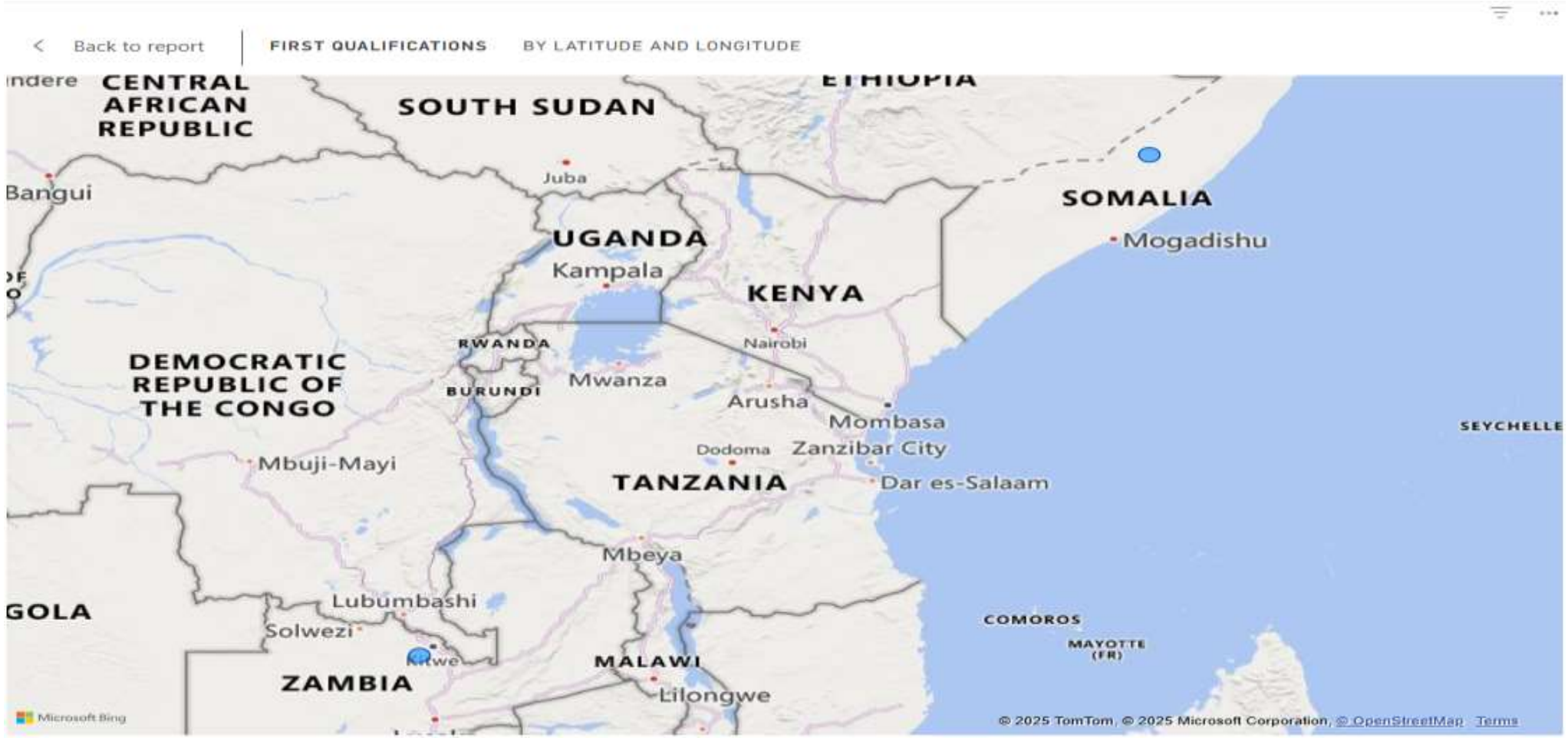
- Tree Map
- Values: Company Count
- Category: Company Name (Top 10)



Task - 4
Qualification Drilldown Map (Map with Click)

Objective

Visualize job postings in Africa based on qualification and company size using an interactive drilldown map.

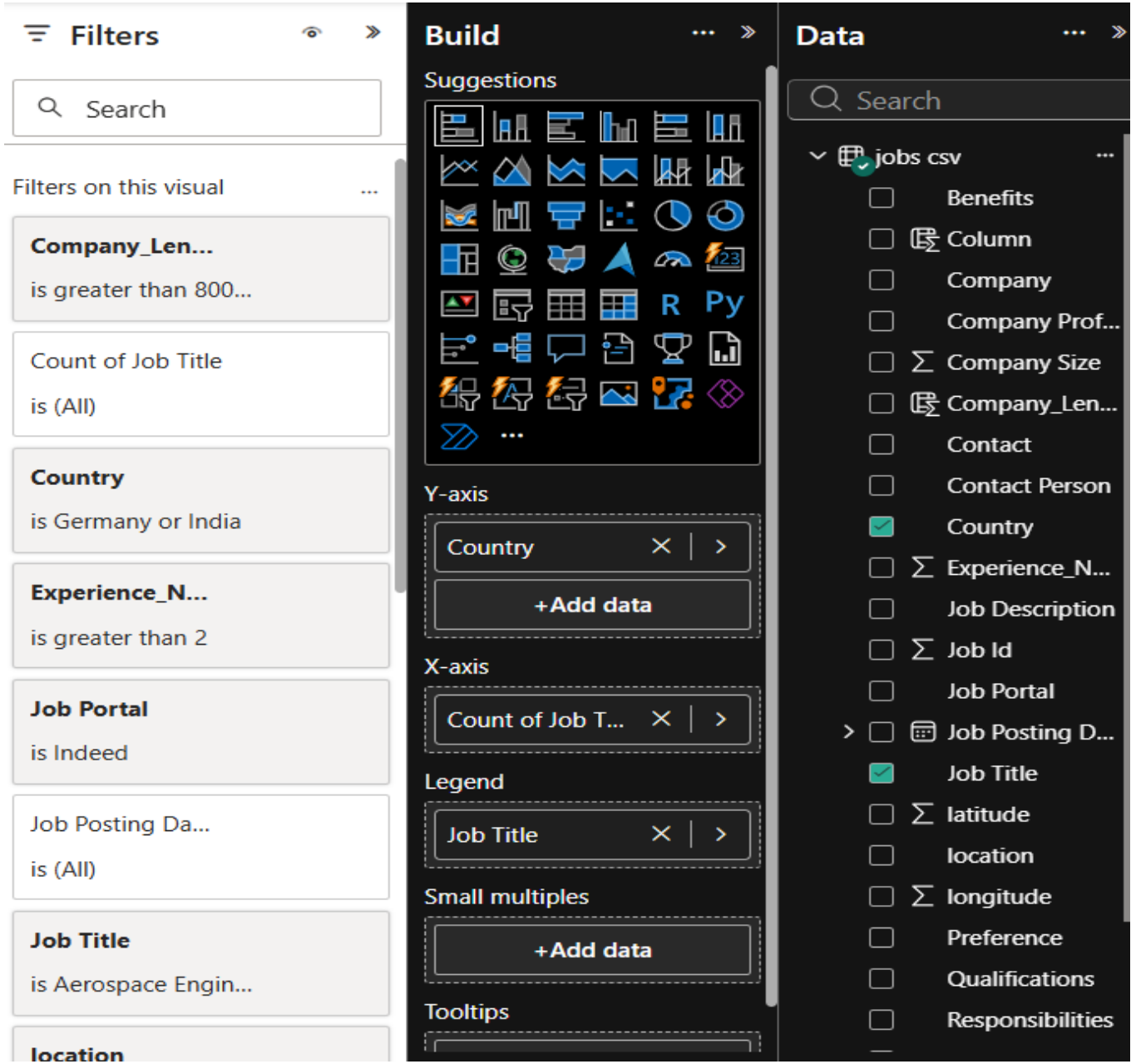


Key Filters

- Qualification: B.Tech, M.Tech, PhD
- Work Type: Full-Time
- Country: Africa only
- Job Title starts with “D”
- Preference: Male
- Company Size > 80,000
- Contact Person starts with “A”
- Job Portal: Indeed
- Salary > $20,000

Visualization

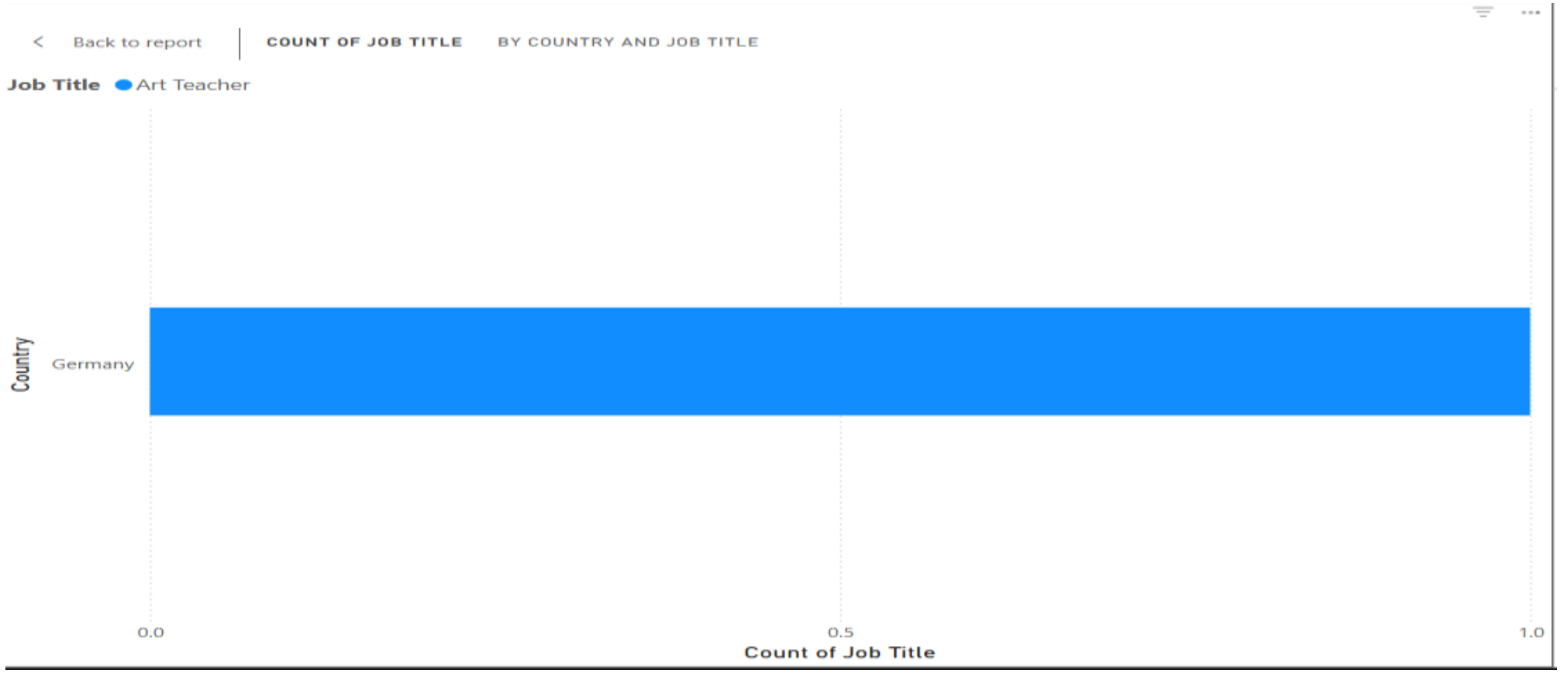
- Map using Latitude & Longitude
- Drilldown enabled for detailed location view



Task – 5
India vs Germany Comparison (Stacked Bar Chart)

Objective

Compare job postings between India and Germany based on qualification, experience, and job role using a stacked bar chart.

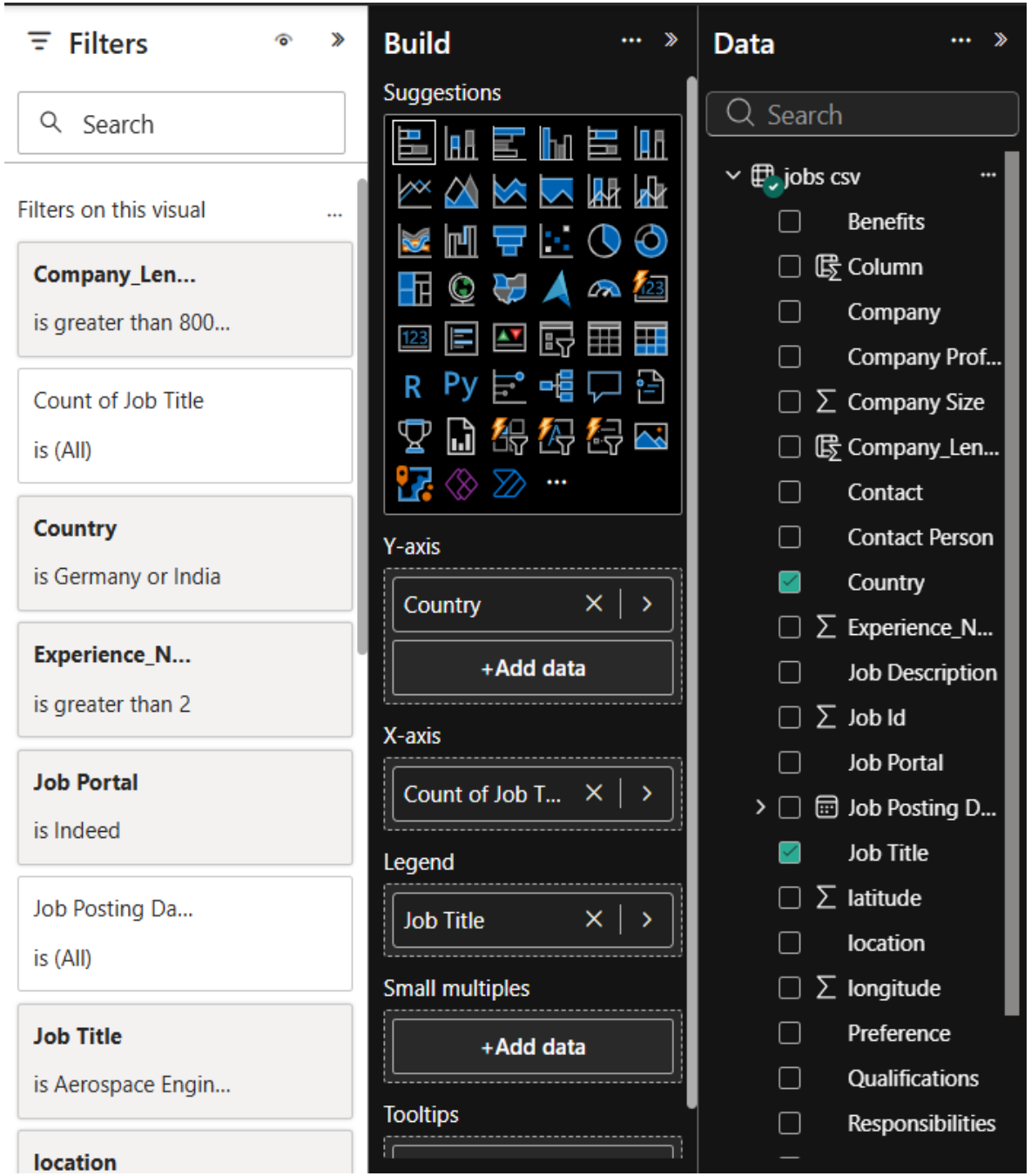


Key Filters

- Countries: India and Germany
- Qualification: B.Tech
- Work Type: Full-Time
- Experience > 2 years
- Job Titles: Data Scientist, Art Teacher, Aerospace Engineer
- Salary > $10,000
- Preference: Female
- Job Portal: Indeed
- Job Posting Date: before 08/01/2023
- Location: not blank
- Company Name: more than 8 characters

Visualization

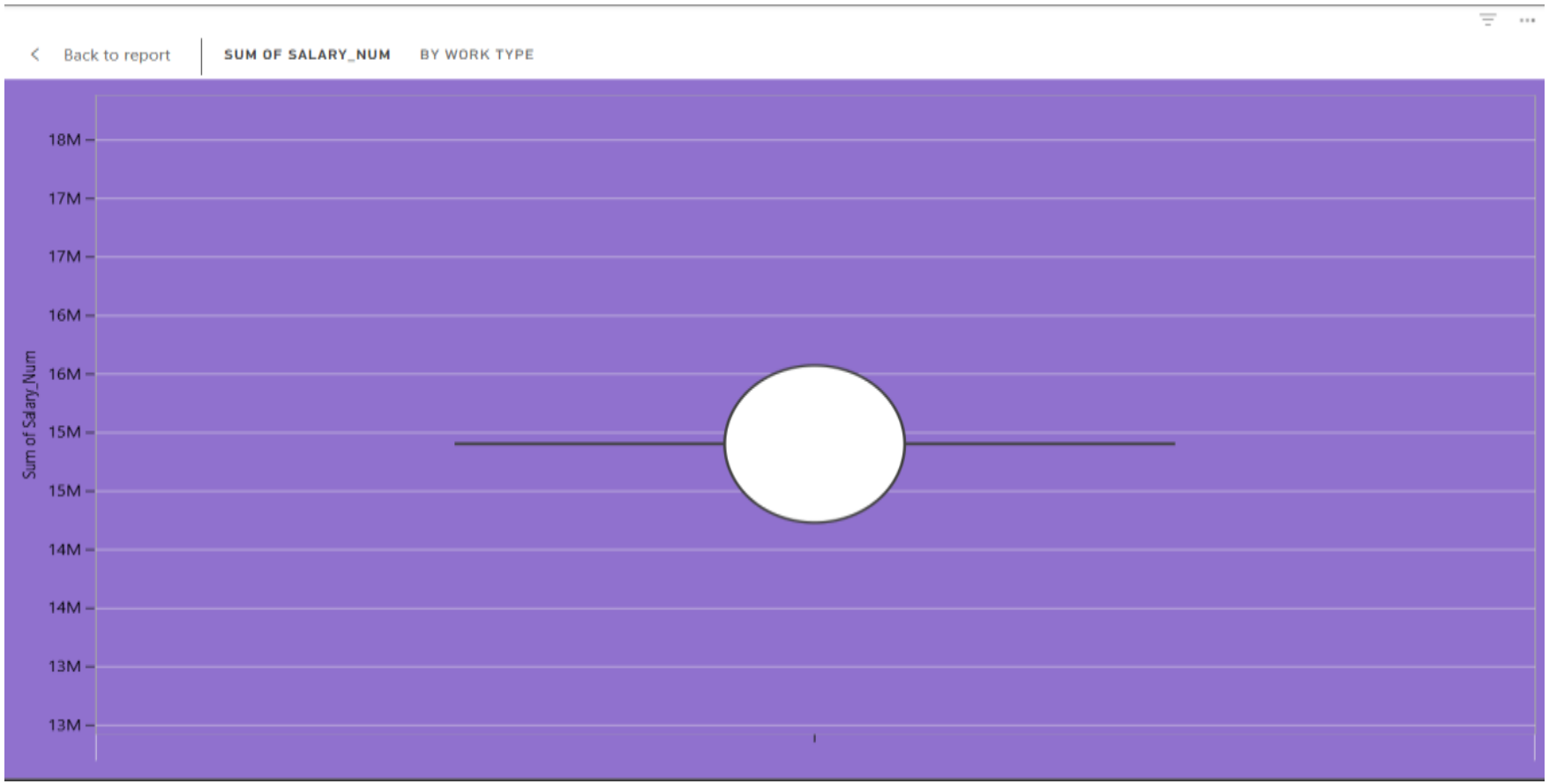
- Stacked Bar Chart
- India: Orange
- Germany: Green



Task - 6
Work Type Salary Distribution (Box Plot)

Objective

Analyze salary distribution for internship roles under geographic, experience, and company constraints using a box plot.



Key Filters

- Work Type: Intern
- Latitude < 10
- Country not starting with A, B, C, or D
- Job Title: single word, fewer than 10 characters
- Company Size < 50,000
- Salary > $8,000
- Experience: even numbers only
- Job Posting Date: between 2021 and 2023
- Contact Person: contains letter “e”

Visualization

- Box-and-Whisker Plot
- X-axis: Work Type
- Y-axis: Salary Range