# Data Analyst Support Needed for Workforce and Budget Management Dashboard

### **Objective**

We need to develop a structured, data-driven approach to monitor workforce efficiency, financial risks, and project health. The goal is to create a Power BI dashboard that helps answer the following:

## Which projects and departments are at risk of being over budget or underperforming?

Since department budgets are set at 2-year intervals, we also need to determine whether a single year's budget can cover all expenses.

#### **Problems Identified**

- Some departments and projects are exceeding budgets or underperforming, making it difficult to take corrective action in time.
- Financial data is scattered across multiple sources (employee information, salary data, budgets, and project details), making reporting inefficient.
- A centralized Power BI dashboard is needed to track financial health and workforce performance across departments.

## **Target Audience**

- Primary Leadership team (decision-makers managing workforce and budget allocations)
- Secondary Financial analysts and project managers

## **Use Cases: Workforce & Budget Monitoring**

1. Identifying Departments and Projects in the Red

#### **User Story:**

As a department manager, I want to analyze which departments and projects are over budget or underperforming so that I can take corrective actions before the next budget cycle.

#### **Acceptance Criteria:**

- The dashboard should highlight departments/projects exceeding their budget.
- It should allow filtering by department, project, and time.
- Key financial metrics (e.g., total allocated budget vs. actual spending) should be visualized clearly.

## 2. Organizing Data for Efficient Reporting

#### **User Story:**

As a data analyst, I want to ensure that financial and workforce data is structured correctly and accessible so that we can generate meaningful insights.

#### **Acceptance Criteria:**

- The data should be consolidated from various sources (employee data, salaries, budgets, and project details).
- Data should be clean, validated, and formatted correctly for reporting.
- Any data integrity issues (e.g., missing records, duplicates) should be flagged.

## 3. Power BI Dashboard Development

#### **User Story:**

As a financial analyst, I want a Power BI dashboard to monitor employee performance, salary distribution, and departmental budget management so I can improve decision-making.

#### **Acceptance Criteria:**

- The dashboard should display real-time insights into workforce performance and budget health
- Key visualizations should include:
  - o Departmental budget vs. actual spending
  - Employee salary distribution
  - Performance trends by project and team
- It should be user-friendly and support filtering, sorting, and exporting reports.

#### **Success Criteria**

- Leadership can easily identify underperforming departments and budget risks.
- Financial teams can quickly generate reports with organized data.

• The dashboard enables better budget planning for upcoming fiscal years.

## **Data Requirements**

To produce the required insights, the dataset should include:

- Department Name (string)
- Project Name (string)
- Total Allocated Budget (integer)
- Actual Spend (integer)
- Employee Count (integer)
- Salary Distribution (decimal)
- Performance Score (integer)

## **Data Quality Checks**

To ensure accuracy, we will conduct the following:

- Row count check (ensuring all departments/projects are included)
- Column count check (verifying that all necessary fields are present)
- Data type validation (ensuring numeric values are correct)
- Duplicate and missing data check

## **Additional Requirements**

- Document the solution (including data sources, transformation process, and analysis conclusions).
- Publish the dashboard on GitHub with a README explaining its functionality.
- Ensure the solution is scalable for future budget cycles.