TechnoEdge HR Analytics Dashboard — Power BI Project

Built a comprehensive HR analytics dashboard for TechnoEdge using Power BI, visualizing and analyzing workforce data from 2020-2022. The project includes employee details, departmental insights, attendance, experience, age groups, salary trends, and workforce diversity. Integrated advanced data cleaning steps and business intelligence techniques to support HR decision-making.

**Key Features & Steps**

* **Data Cleaning in Power Query**
  + Appended yearly sales tables (2020-2022) into one unified table using "Append Queries".
  + Changed column data types with "Transform Data" for consistency (e.g., salary to number, date to Date/Time).
  + Capitalized names by recreating the Employee Name column using "Replace Values" and text transformations.
  + Identified and removed duplicate rows with "Remove Duplicates," documenting the count for dataset quality.
  + Created a conditional column to classify experience levels: Fresher, Junior, Senior, based on salary bands.
  + Merged Employee Attendance into Employee Details on Employee ID using "Merge Queries" for consolidated analysis.
  + Calculated age using Power Query functions: subtracting Birthdate from today's date, converting duration to years.
  + Extracted years from date columns using "Date.Year" transformation for time-based analysis.
* **Geographical Data Model**
  + Categorized location fields (city, country, state, region) for dynamic map visuals and easy filtering.

**Dashboard Visuals**

* **KPI Cards** displaying: Total employees, average salary, and department count.
* **Pie and Donut Charts**: Show salary distribution by experience level and age group.
* **Line and Bar Charts**: Track yearly salary trends and employee count.
* **Slicers/Filters**: Enable interactive data exploration by country, gender, department.
* **Tables**: Present detailed salary and department breakdowns per employee.
* **Stacked and Clustered Charts**: Illustrate departmental headcount and yearly gender-wise attendance.