Power BI Data Analytics Projects Documentation

Dataset - https://bit.ly/3TmtJnf

Help an organization to improve employee performance and retention rate by creating an HR Analytics Dashboard.

Problem Statements

- 1. Find the total attrition rate.
- 2. Find the educational background of attrited employees.
- 3. Find the travel habits of attrited employees.
- 4. Find the relation between age and gender of attrited employees.
- 5. Find which department consists the most number of attrited employees.
- 6. Find the job satisfaction levels for different job roles.
- 7. Find how overtime affected attrited employees.
- 8. Find how marital status affected attrited employees.

Data Cleaning:

- 1. Remove column EmpID, Over18, and StandardHours
- 2. Select all columns then right-click and select the function Remove Duplicates.
- 3. In column BusinessTravel replace the cell containing TravelRarely with Travel_Rarely.
- 4. Select all columns then goto 'Transform' and click the function Detect Data Types.

Data Modeling:

- 1. I created a new AttritionCount column by selecting Add Column tab then selecting Conditional Column function to find the total number of attrited employees.
- 2. I created a new measure AttritionRate to count the percentage of attrited employees using the formula: Sum('HR-Employee-Attrition'[AttritionCount]) / Count('HR-Employee-Attrition'[EmployeeNumber])

Data Visualization:

- 1. I created a Card to display the total number of employees.
- 2. I created a Card to display the total attrition count.
- 3. I created a Card to display the attrition rate.
- 4. I created a Card to display the average age of attrited employees.
- 5. I created a Card to display the average salary of attrited employees.

- 6. I created a Card to display the average years of service at the company by the employees.
- 7. I created a Pie Chart to display the education of attrited employees.
- 8. I created a Pie Chart to display the travel habits of attrited employees.
- 9. I created a Pie Chart to display the departments of attrited employees.
- 10. I created a Stacked Area Chart to display the age of attrited employees from both genders.
- 11. I created a Stacked Bar Chart to display the job satisfaction of attrited employees for different job roles.
- 12. I created a slicer for the Marital status of employees.
- 13. I created a slicer for the Overtime status of employees.

Data Analysis:

- 1. The dataset contains data for 1470 employees.
- 2. Total 237 employees have left the company and the total attrition rate is 16%.
- 3. Majority of the attrited employees travelled frequently.
- 4. The sales and human resource department have the highest number of attrited employees.
- 5. Majority of the attrited employees were between the age 25 to 35.
- 6. The laboratory technician, sales executive, and research scientist had the most number of poor job satisfaction rating.

Kaggel dataset api -> kaggle datasets download -d saadharoon27/coffee-bean-sales-raw-dataset
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Documentation - Documentation - HR Data Analysis -> This file contains all data cleaning steps taken in this project.

cleaning

Coffee Beans Data Analysis -> This file contains the Dashboard and clean data.

Coffee Beans Raw Data -> This file contains the original and unclean data data.
