

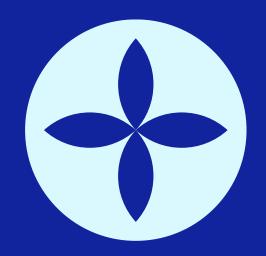




HR ANALYTICS



Topics Covered



<u>Introduction to HR Analytics</u>

Problem Statement

Project Objectives & KPIs

Data Analysis Process

Data Overview

Attrition Analysis

Recommendations

Introduction to HR Analytics

What is HR Analytics?

HR Analytics is the process of collecting, analyzing, and interpreting workforce data to drive strategic human resource decisions.

Why is HR Analytics Important?

- Enables data-driven HR planning and decision-making
- Identifies patterns and trends in employee behavior
- Helps reduce attrition and improve employee engagement
- Aligns workforce strategies with business goals

PROBLEM STATEMENT

Understanding the key drivers of employee attrition is essential to develop strategic HR interventions and improve retention.

The organization is currently facing a
 16% attrition rate,
 with 237 employees having exited the

 High attrition rates are impacting team stability, increasing hiring/training costs, and affecting business continuity.

company out of 1,470 total employees.

02 DATA ANALYSIS PROCESS

- Data Collection Collected data from HRIS a supplementary online sour		
2- Business Understanding & Objectives	Aligned goals through collaboration with HR stakeholders.	
3- Data Preparation & Cleaning	Cleaned, de-duplicated, and standardized raw data.	
4- Data Processing & Analysis	Used SQL and Power BI for exploration and analysis.	
5- Visualization & Insights	Created dashboards and derived actionable insights.	

Data Preparation & Cleaning:

- Created, 'attritcount', 'Marital Status', 'Job Satisfaction'
- Labeled satisfaction using SQL CASE

```
-- Number of employees by marital status

CREATE VIEW vw EmployeeCountByMaritalStatus AS

SELECT Marital_Status, COUNT(*) AS EmployeeCount

FROM HRdata

GROUP BY Marital_Status;

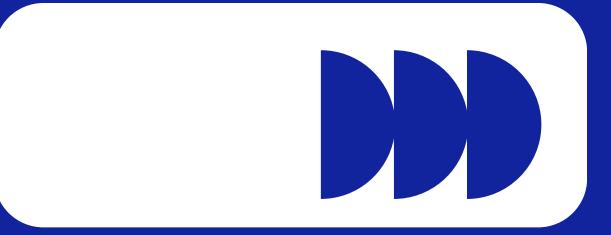
Results Marital_Status EmployeeCount
Single 470
Divorced 327
Married 673
```

DAX Measures in Power BI:

- TurnoverRate, ActiveMembers, ActiveMembersPercentage
- ExcellentEmployees, GoodEmployees
- Gender-based counts and percentages

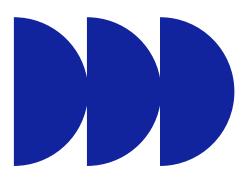
```
Active Members = DIVIDE(SUM('HRdata'[attritcount]),SUM
  ('HRdata'[Employee_Count]),"")
```

Project Objectives & KPIs

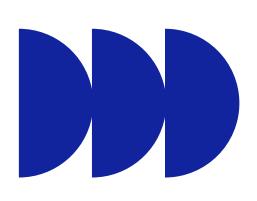


Analyze
 workforce
 demographics
 and attrition
 patterns

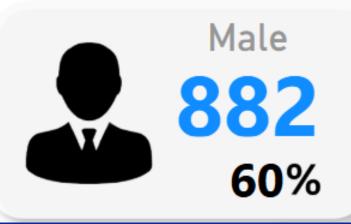
 Identify key factors influencing employee turnover. Provide datadriven
 recommendations to reduce attrition.

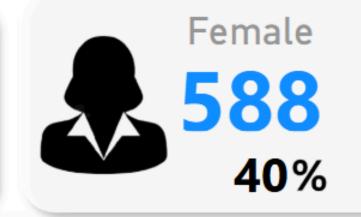


Employee Overview Dashboard-2024 Average Marital_Status Total Employees Female Income Divorced 882 6.5K Married 100% Single Service Year **Education Level Distribution** Education Associates Degree 171 1 years 128 Bachelor's Degree Marketing Doctoral Degree 10 years Technical Degree ☐ High School ■ Master's Degree Human Resources 27 Count of Employee_Count Count of Employee_Number Satisfaction of Current employee **Education Level Distribution** ✓ □ 35 - 44 √ □ 45 - 54 ∨ □ Over 55 ∨ □ Under 25







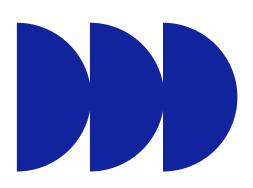


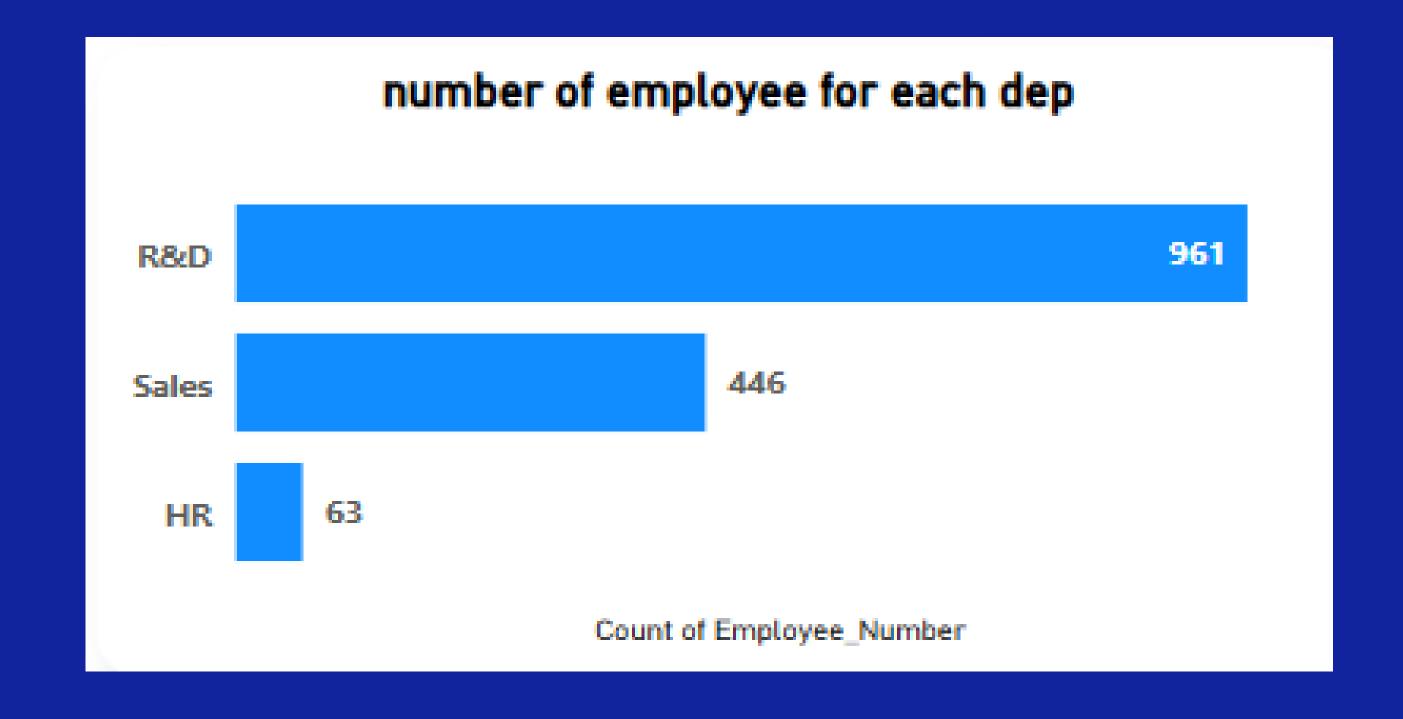


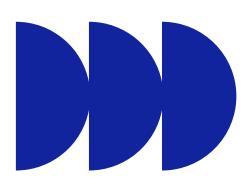
Total Employees & Gender Split

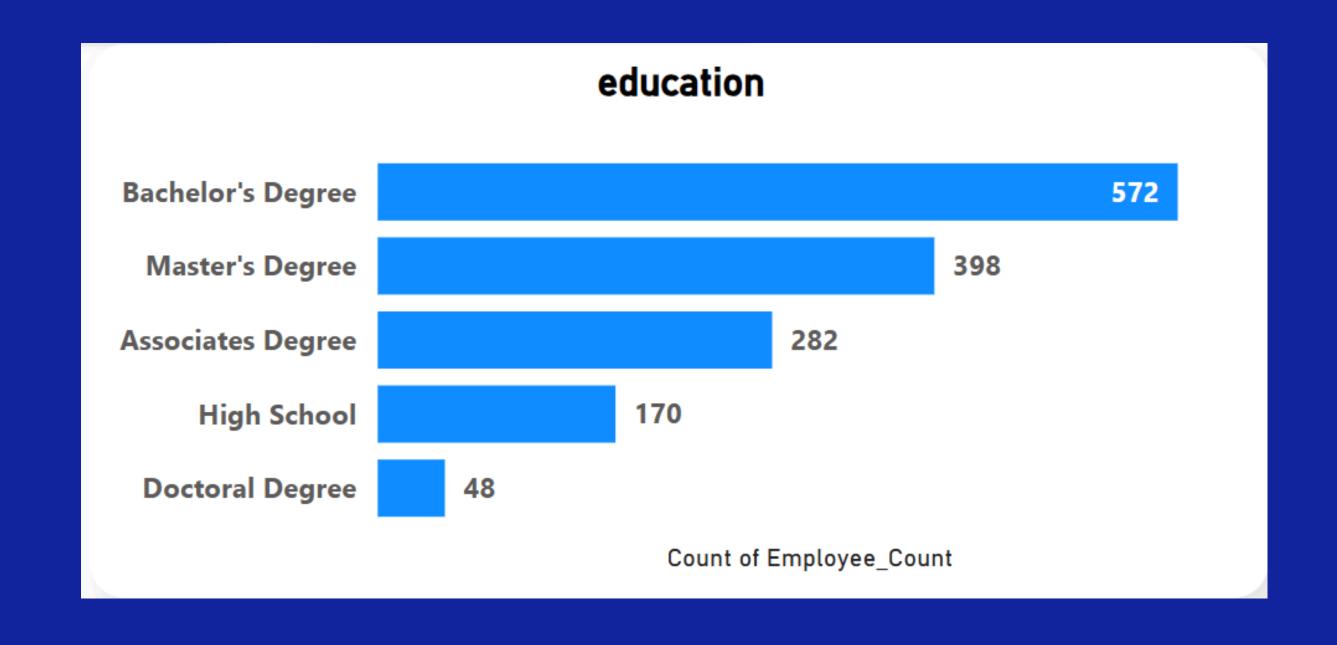
- Total: 1,470
- Male: 882 (60%)
- Female: 588 (40%)

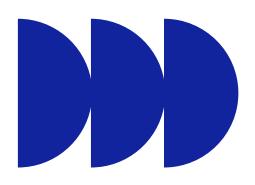
Average Income: \$6.5K

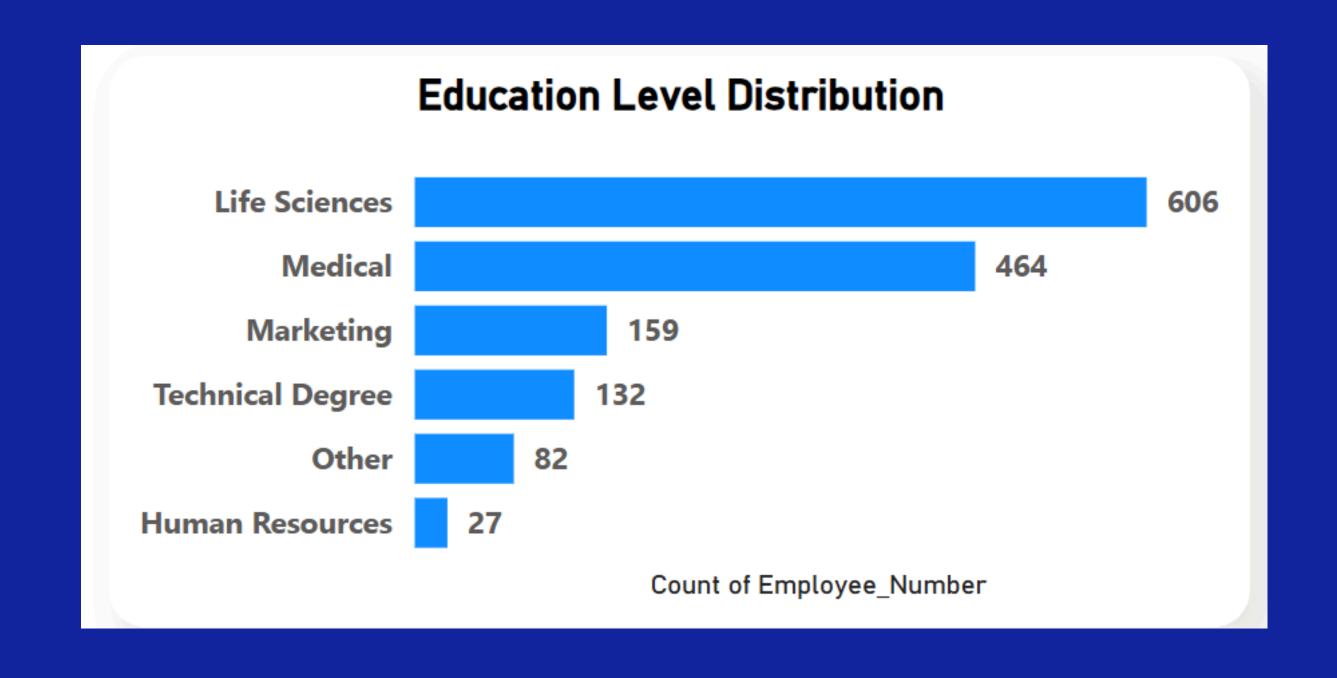


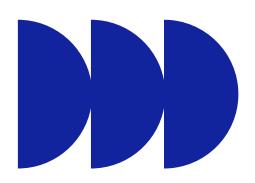


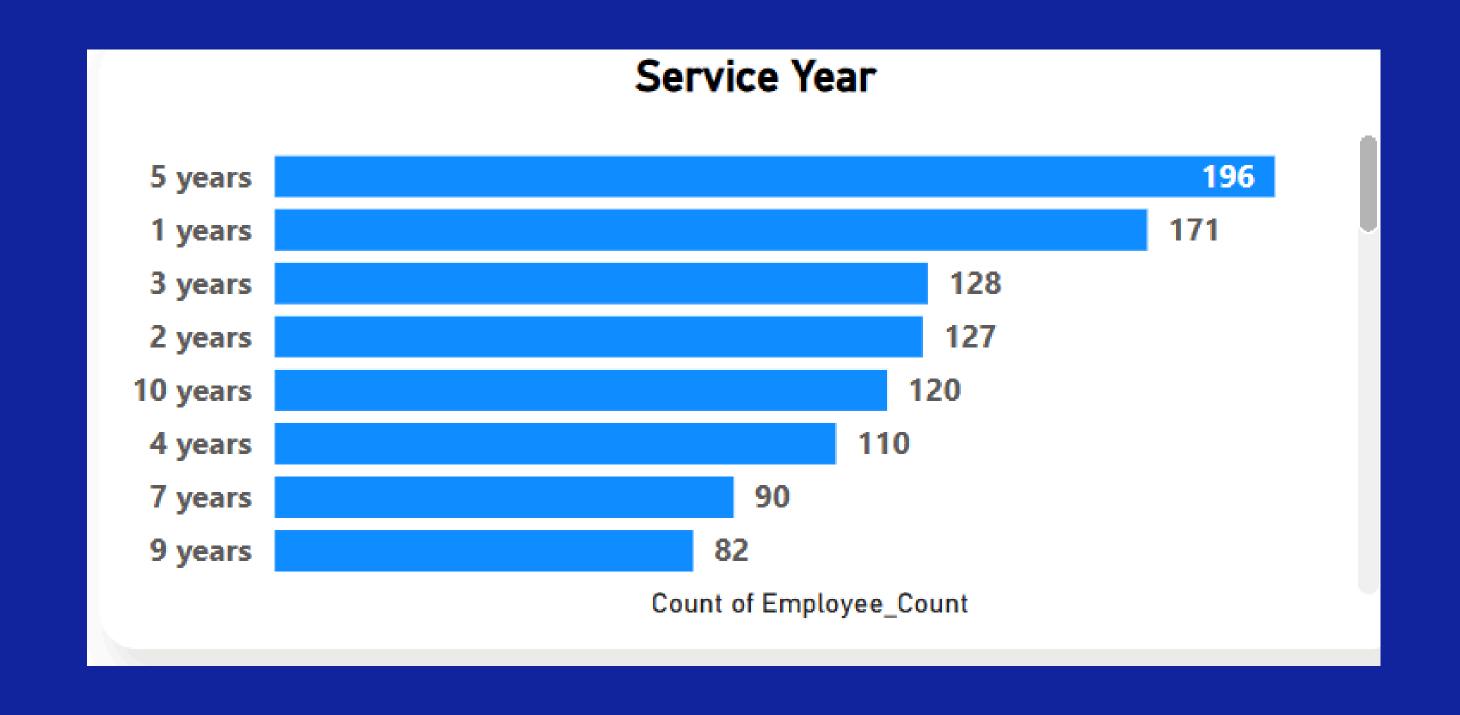


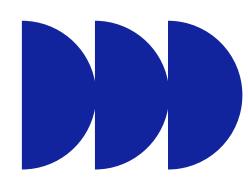


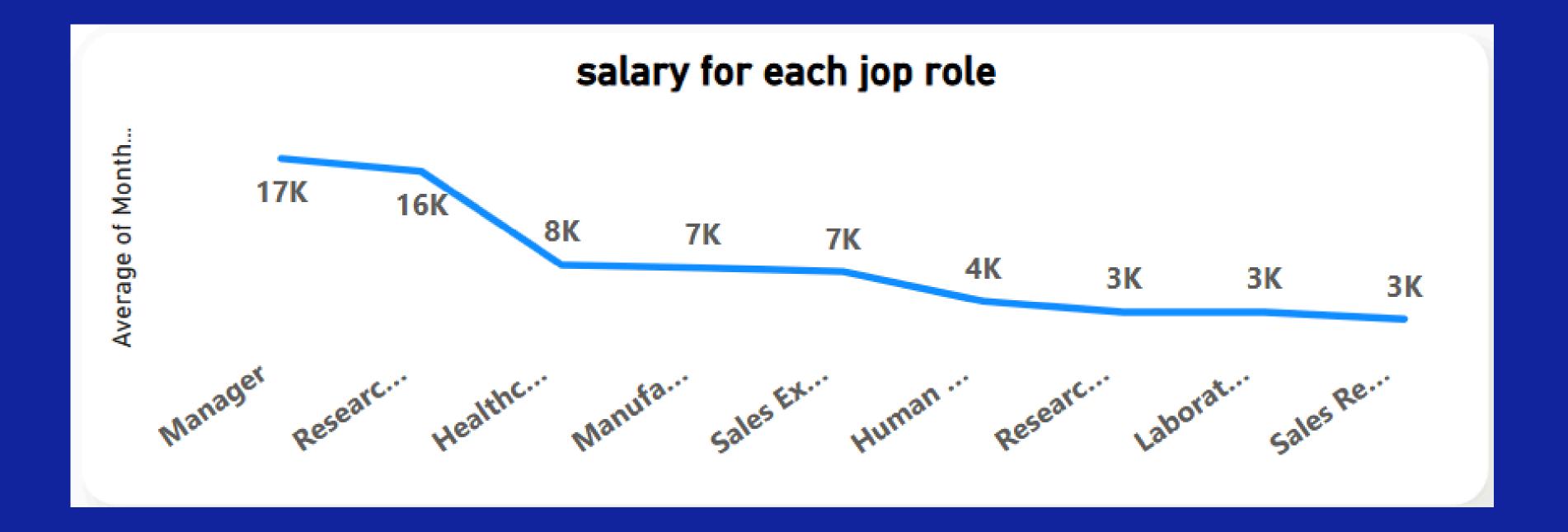


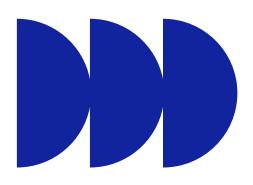


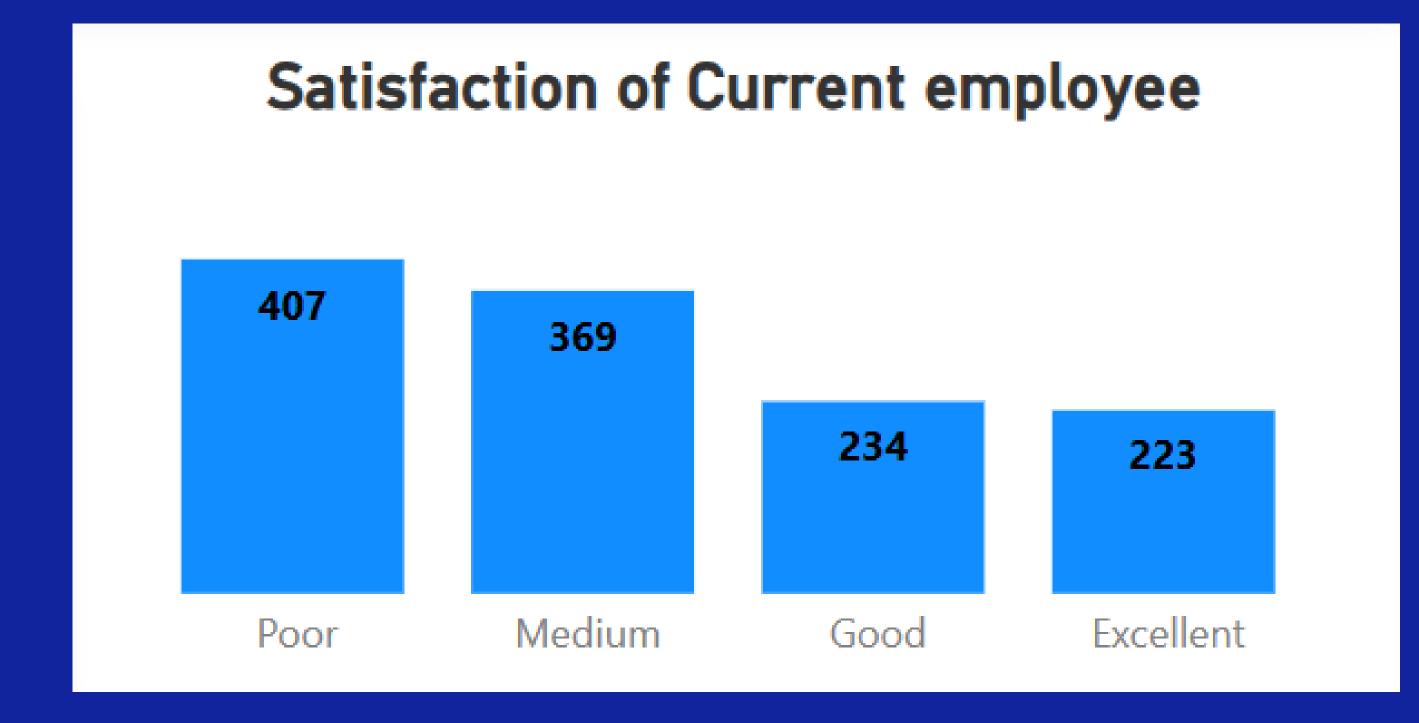












O5 ATTRION ANALYSIS

52 237

01K - 05K

05K - 10K

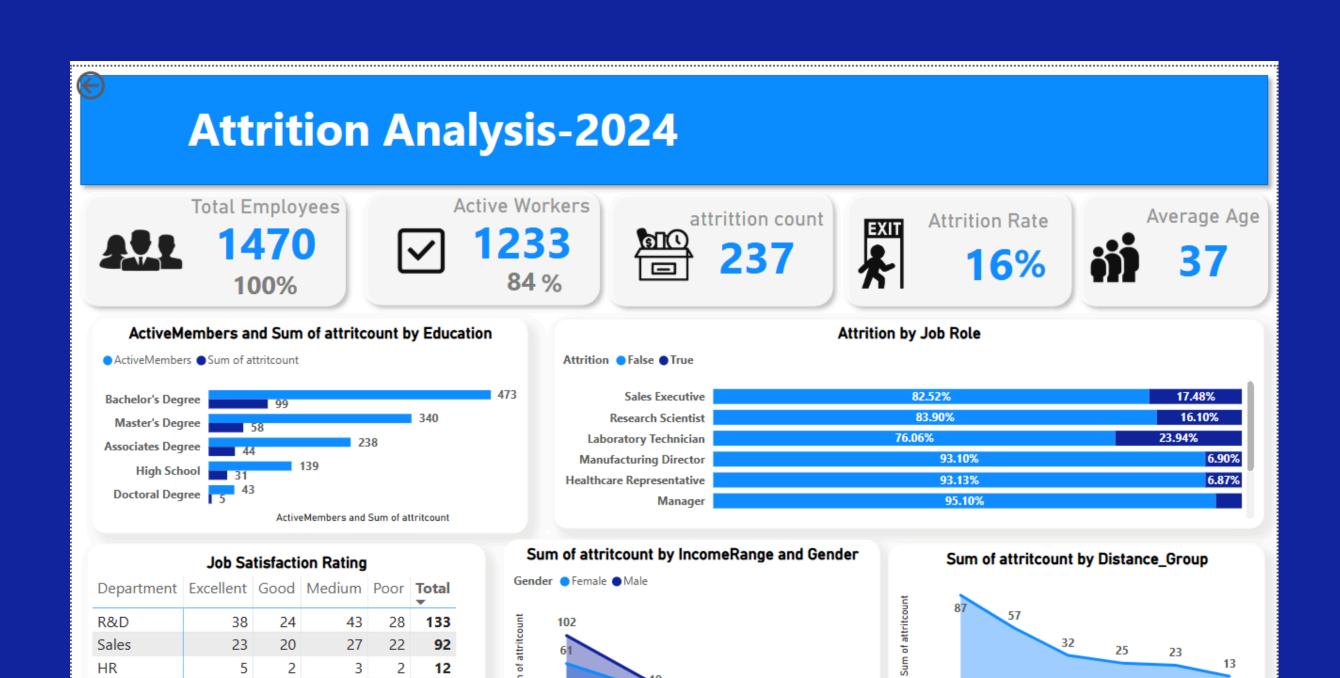
10K - 15K

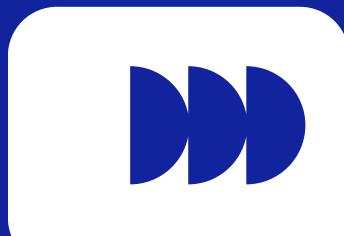


21-25

KM

KM





Total Employees

1470

100%





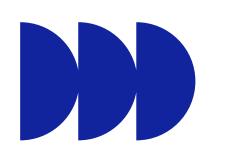


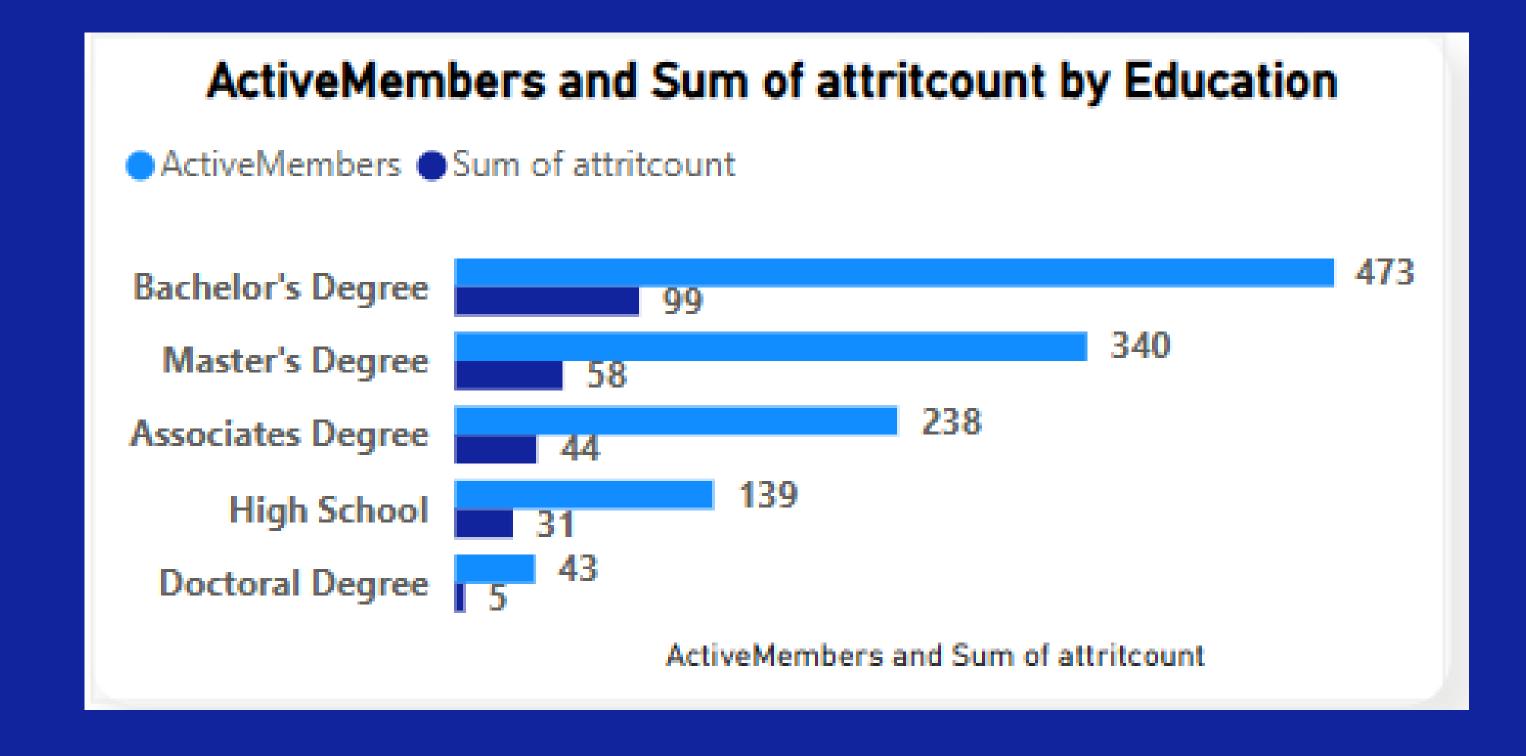
Attrition Rate

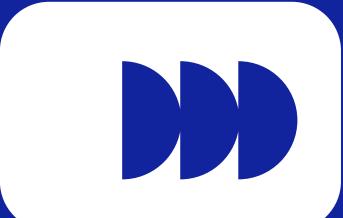
16%

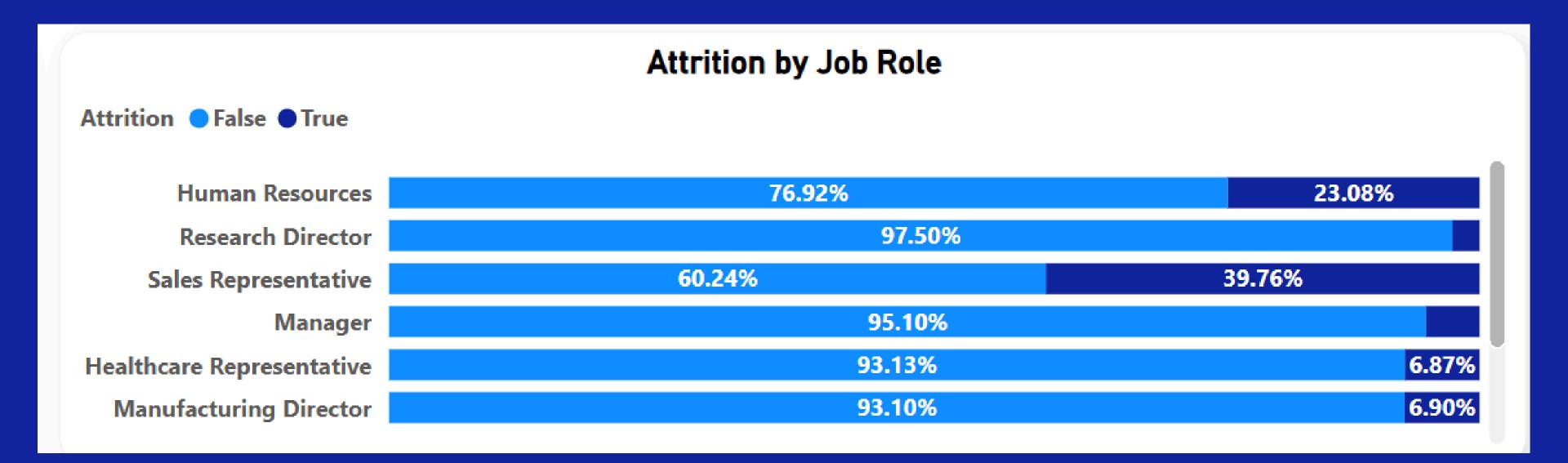


- Total Employees: 1,470
- Attrition Count: 237
- Attrition Rate: 16%
- Active Employees: 1,233
- Average Age: 37





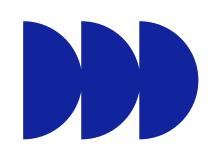


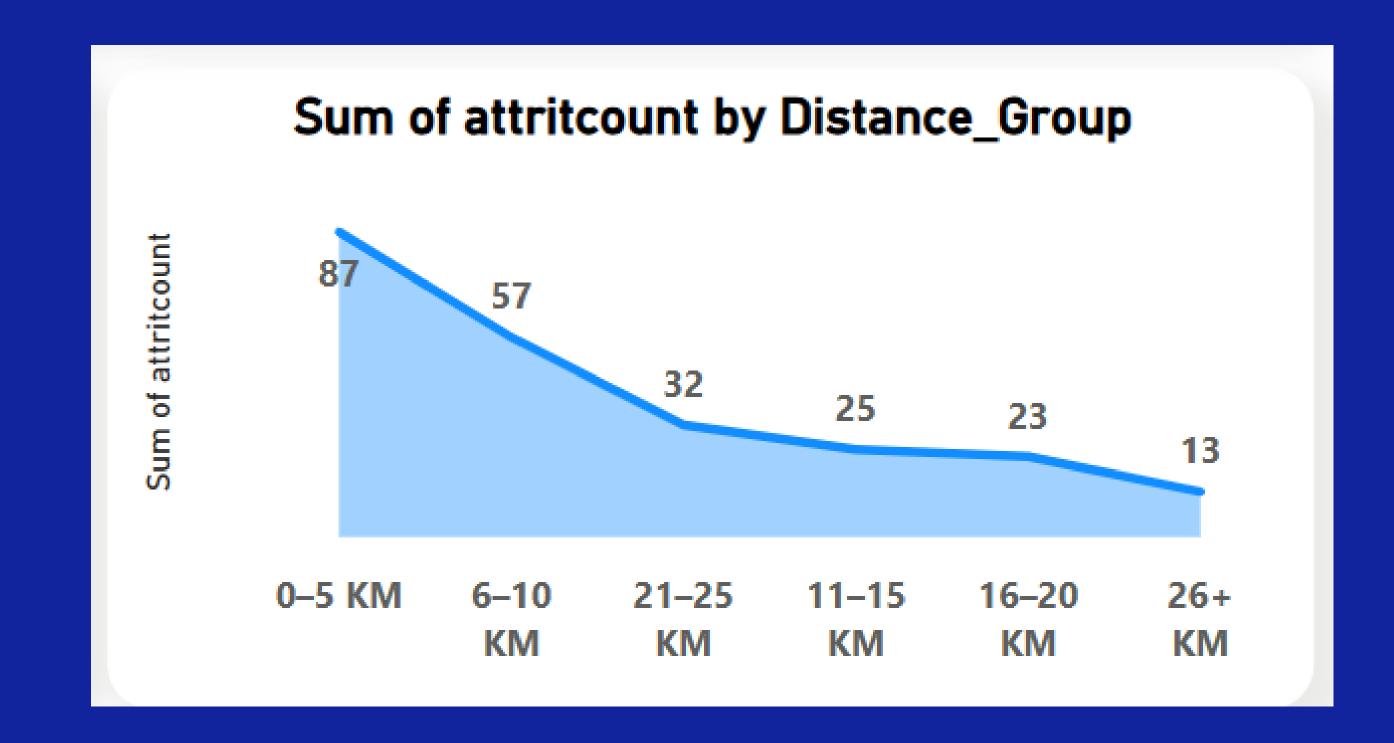


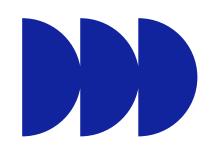


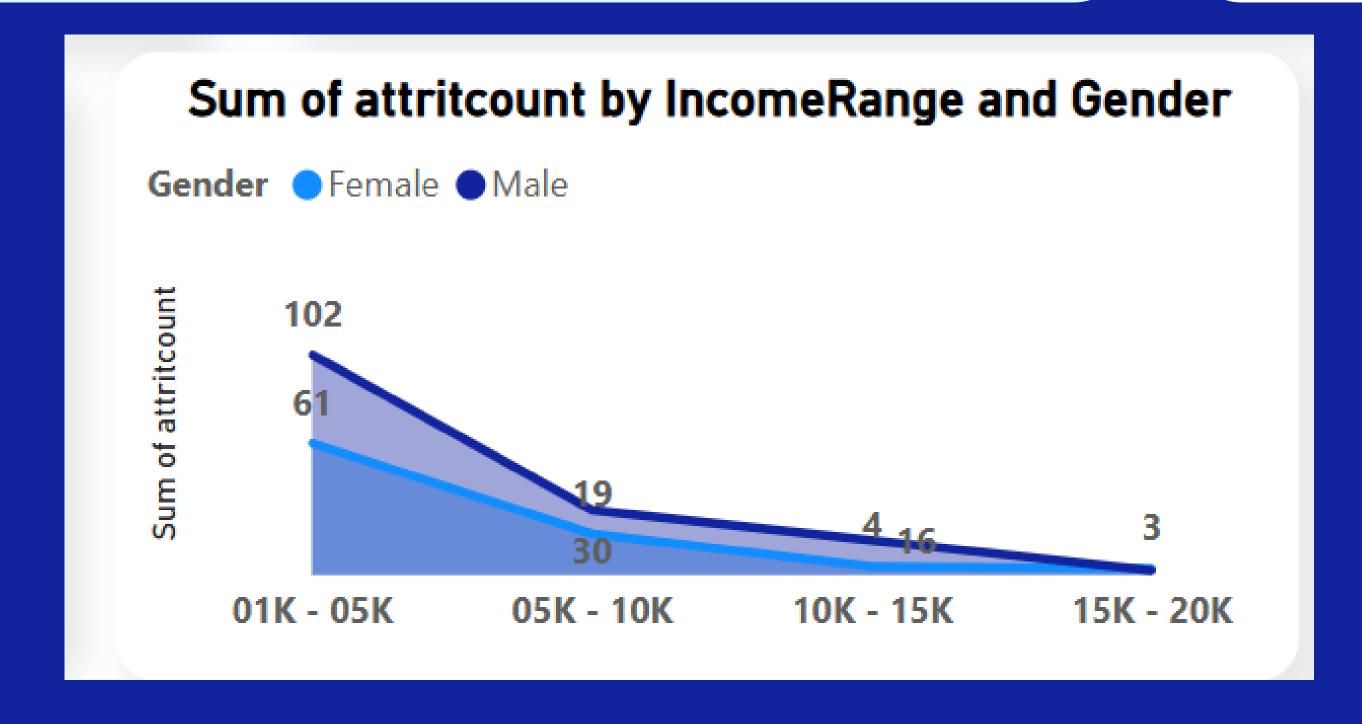
Job Satisfaction Rating

Department	Excellent	Good	Medium	Poor	Total ▼
R&D	38	24	43	28	133
Sales	23	20	27	22	92
HR	5	2	3	2	12
	66	46	73	52	237

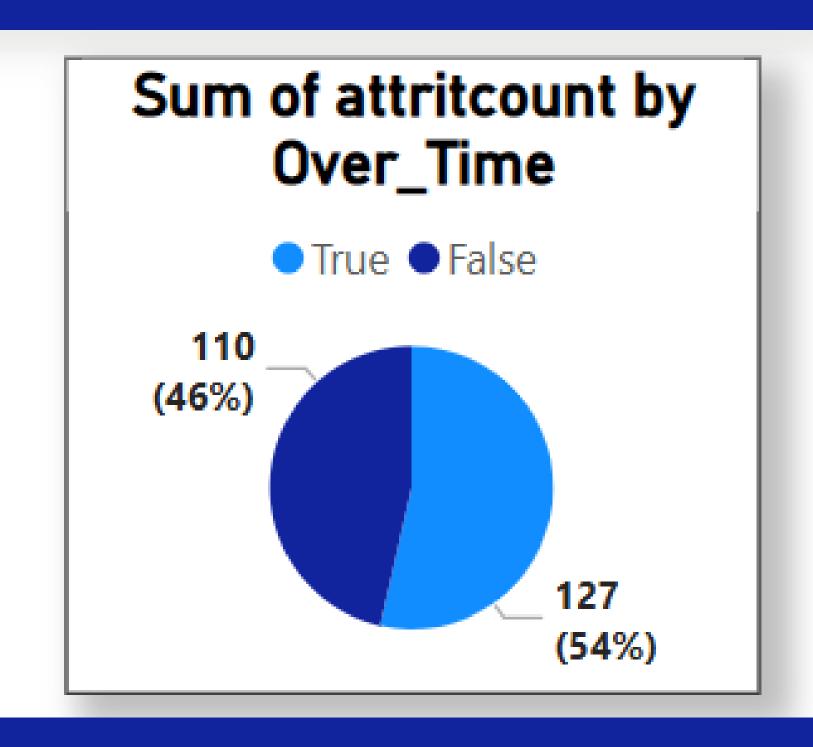


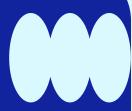












RECOMMENDATIONS

• Improve Job Satisfaction:

Focus on employees with low to medium satisfaction scores.

• Target Key Roles:

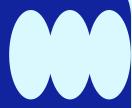
Prioritize retention efforts for lab techs, sales execs, and researchers.

Review Pay Structure:

Re-evaluate salaries, especially in the 0-5K income range.

• Offer Remote Options:

Reduce commute stress with hybrid or remote work choices.



RECOMMENDATIONS

• Start Retention Programs:

Support younger staff and those with 1–5 years of service.

Upskill Employees:

Offer training and mentoring, especially for lower education levels.

Discuss Overtime Policy:

Open conversations with employees about overtime rules and rewards.

Reach out to the HR Team if you need support!

Email:

essammenna08@gmail.com

thank you

