# Attrition Analysis Project With Power BI



Prepared By:

Mostafa Abdelrahman

# Welcome to Attrition Analysis Project



Individuals

Demographics1

Demographics2

Demographics3

Attendance

# Attrition Analysis by Demographics (1)

4410

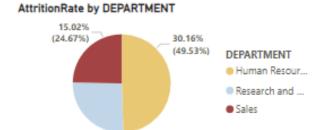
3699 Current Employees ...

711 Employees Attrit... 16.12%

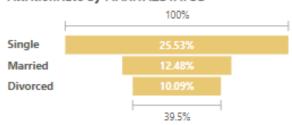
AttritionRate

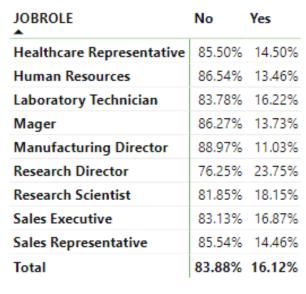
**Total Employees** 

15.71% (25.8%)



## AttritionRate by MARITALSTATUS



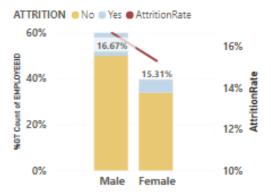






GENDER

## Attrition Rate by Gender & Employees Count



Home

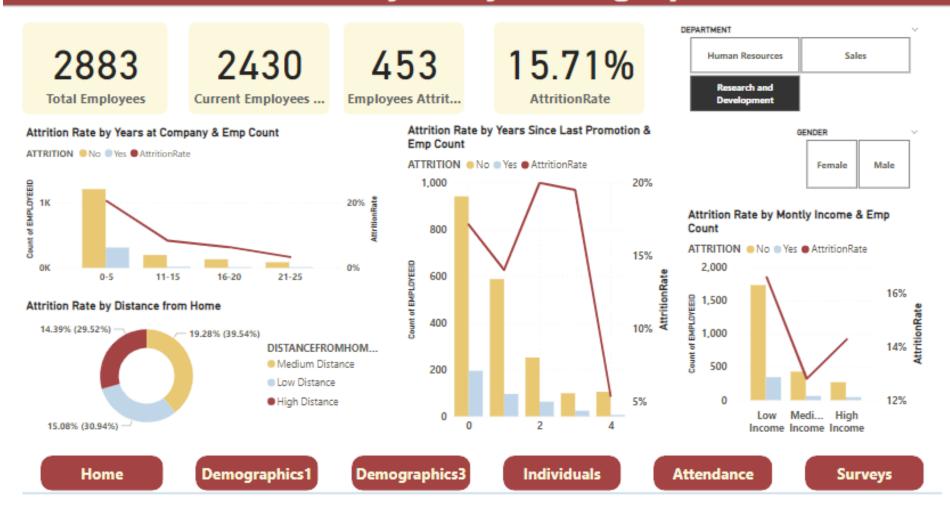
Individuals

Demographics2

Demographics3

**Attendance** 

# Attrition Analysis by Demographics (2)



# Attrition Analysis by Demographics (3)



2430

Current Employees ...

453 Employees Attrit... 15.71%

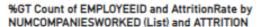
AttritionRate

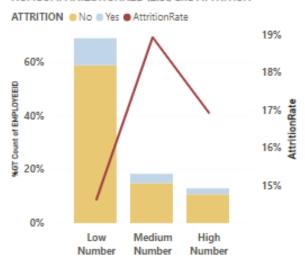


GENDER

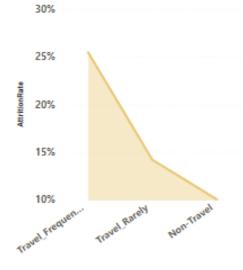
Female

Male

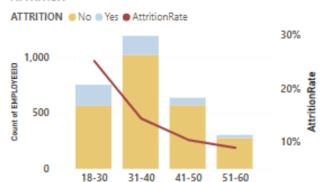




## AttritionRate by BUSINESSTRAVEL



## Count of EMPLOYEEID and AttritionRate by AGE (List) and ATTRITION



Home

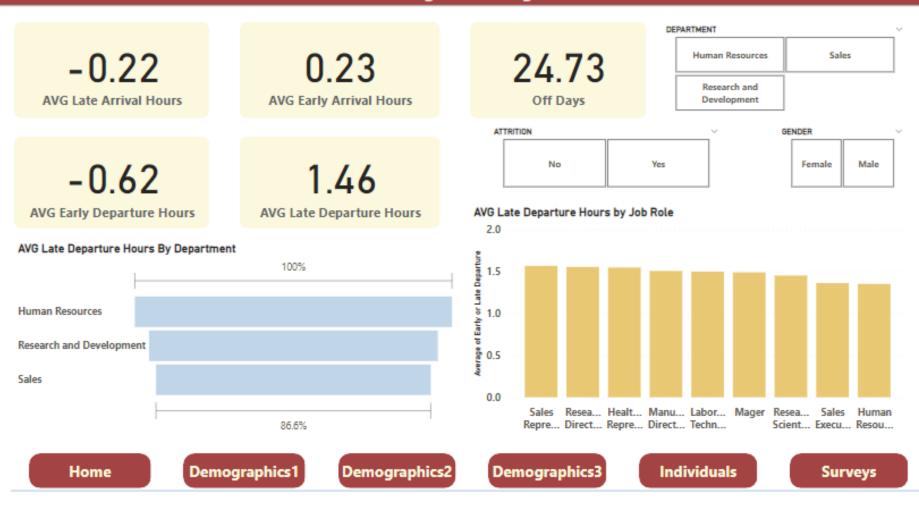
Demographics1

Demographics2

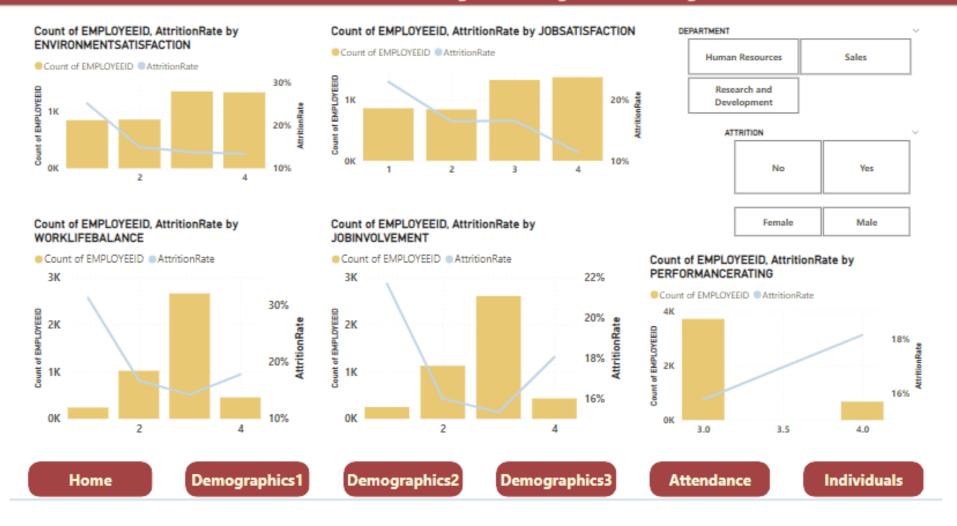
Individuals

Attendance

# **Attrition Analysis by Attendance**



# **Attrition Analysis by Surveys**



## Attrition Analysis for Each Employee

Yes Attrition Status

Off Days Count

30.37
Total Early Arrival Hours

-24.42

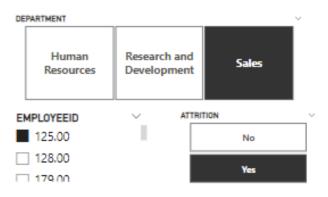
**Total Late Arrival Hours** 

-42.90

**Total Early Departure Hours** 

36.81

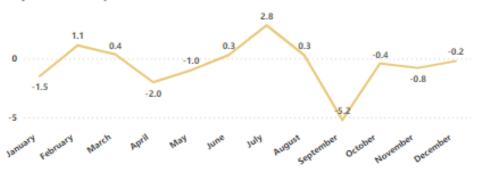
**Total Late Departure Hours** 



#### Sum of Late or Early Arrival by Month



## Early and Late Departure Hours



Home

Demographics1

Demographics2

Demographics3

**Attendance** 



## **Project Report (Key Findings & Recommendations)**

## Finding:

-First of all the attrition rate 16.12% is away out of the healthy range which is below 10%.

## Finding:

- -The single marital status is has highest attrition rate by at least the double from it's following one.
- -May be the reason is that single people mostly have no financial responsibilities towards a wife or children so they are free to change jobs or even take a career break.

## Recommendation:

-While hiring the company should give the advantage to people with other marital status than single.

## Finding:

-The research director job role have the highest attrition rate by 23.75% and after analyzing attendance data found out they has the second highest leaving late hours which seems to be a big factor in the employees attrition.

## **Recommendation:**

- -The company should decrease the overtime that employees have to do.
- -HR team should discuss the research directors about any problem or difficulties they are facing in the company to find out if there are other factors than the late departure.

## Finding:

- -Although the human resources department doesn't have many employees as the other 2 departments but the attrition rate in it (30.16%) is double of each of the others.
- -After Investigating the data it led us to same problem which is the avg late departure hours of this department was far higher than the others.

## **Recommendation:**

- -The company should decrease the overtime that employees have to do.
- -HR team should discuss the HR employees about any problem or difficulties they are facing in the company to find out if there are other factors than the late departure.

## Finding:

-There's a high positive correlation between frequency of travelling for work and the attrition rate.

## Recommendation:

- -The company should make the employees travel only when necessary.
- The company should offer good travel allowance for the employees to make it up to them.

## Finding:

-There's a high positive correlation between being younger and the attrition rate.

#### Recommendation:

- -The company should offer better salaries for junior and senior employees.
- The company should offer better medical insurance and privileges for young employees.