

DATA ANALYTICS WITH IBM COGNOS

ASSIGNMENT 2

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DATASET MODIFICATIONS

For the given dataset, before beginning with the visualizations, I have modified the table by deleting some attributes and modifying the others. Given below are the details for the same :

1. Deletion

Several attributes like Department ID, Performance ID, etc have been removed in order to reduce redundancy since there were pre-existing text attributes with detailed explanation for the respective attributes.

2. Modification

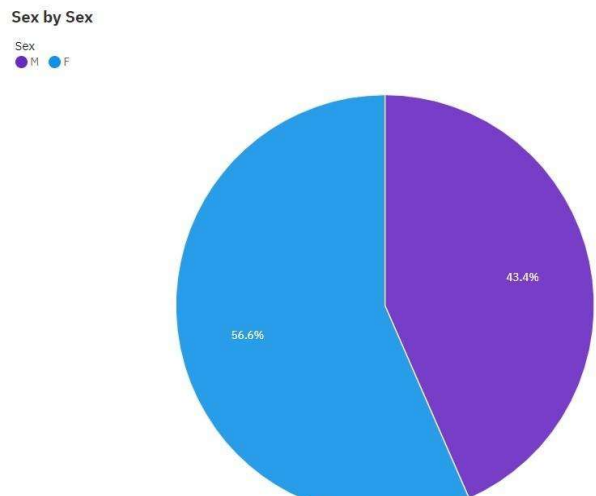
Certain attributes like the HispanicLatino attribute has been cleaned in order to avoid confusion between the same entries entered in different cases (upper and lower).

Below is the link to this data module:

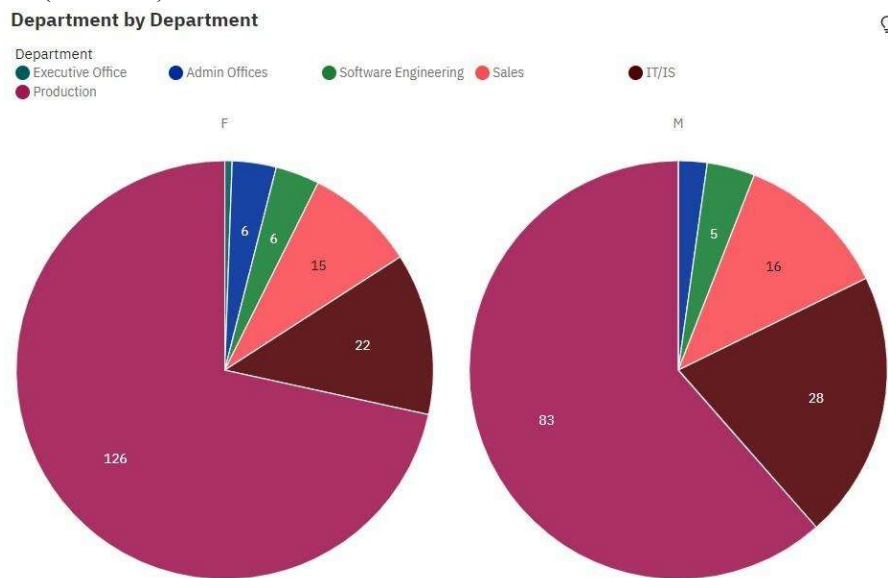
https://us3.ca.analytics.ibm.com/bi/?perspective=ca-modeller&pathRef=.my_folders%2FAssignment%2B2%2FHR%2BData%2BModule

VISUALIZATIONS

1. Gender Ratio Segments - Sex Size - Sex



2. Gender Distribution in Different Departments Segments - Department Size - Department Repeat (column) - Sex

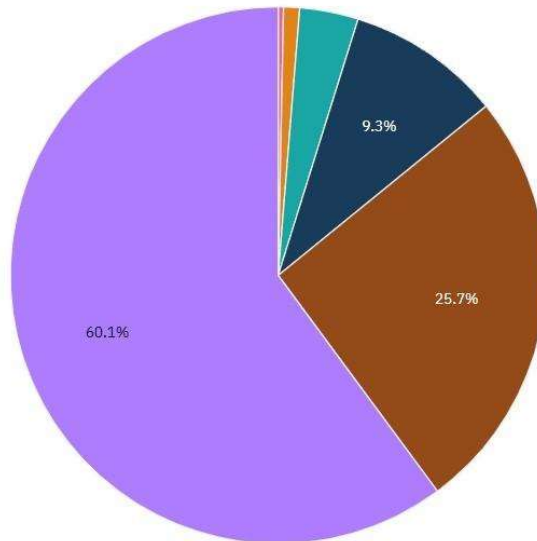


3. Racial Distribution Segments - RaceDesc

Size - RaceDesc

RaceDesc by RaceDesc

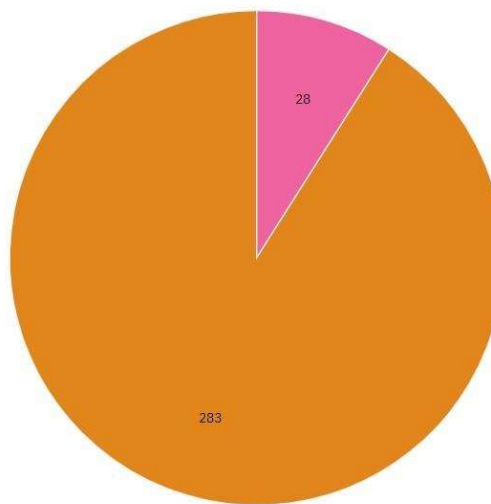
RaceDesc
Hispanic
Asian
American Indian or Alaska Native
Black or African American
Two or more races
White



4. Hispanic Latino ratioSegments - HispanicLatino Size - HispanicLatino

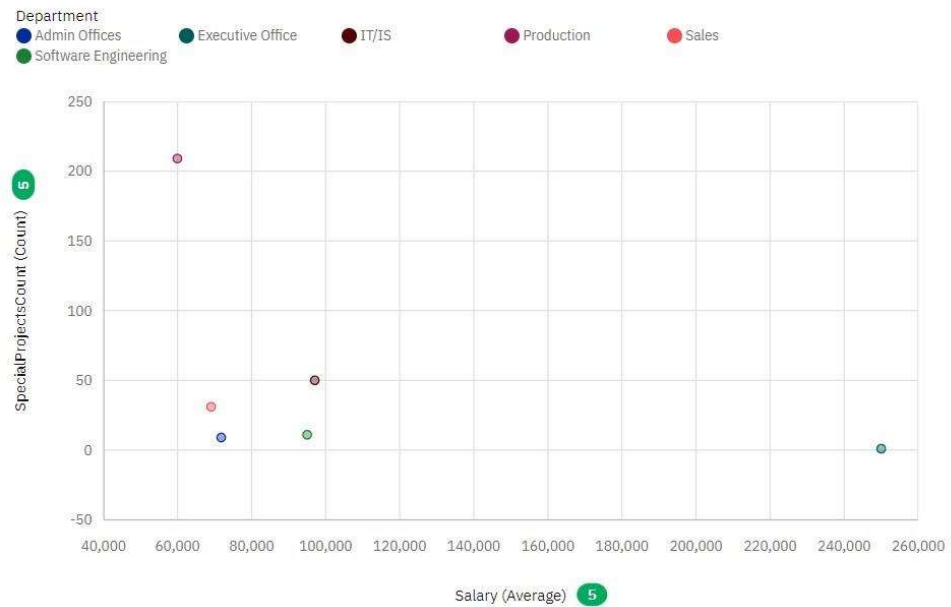
HispanicLatino by HispanicLatino

HispanicLatino
YES
NO



5. Salary dependent on Special Project Count per Departmentx axis - Salary y axis - SpecialProjectsCount Color - Department

Salary by SpecialProjectsCount colored by Department

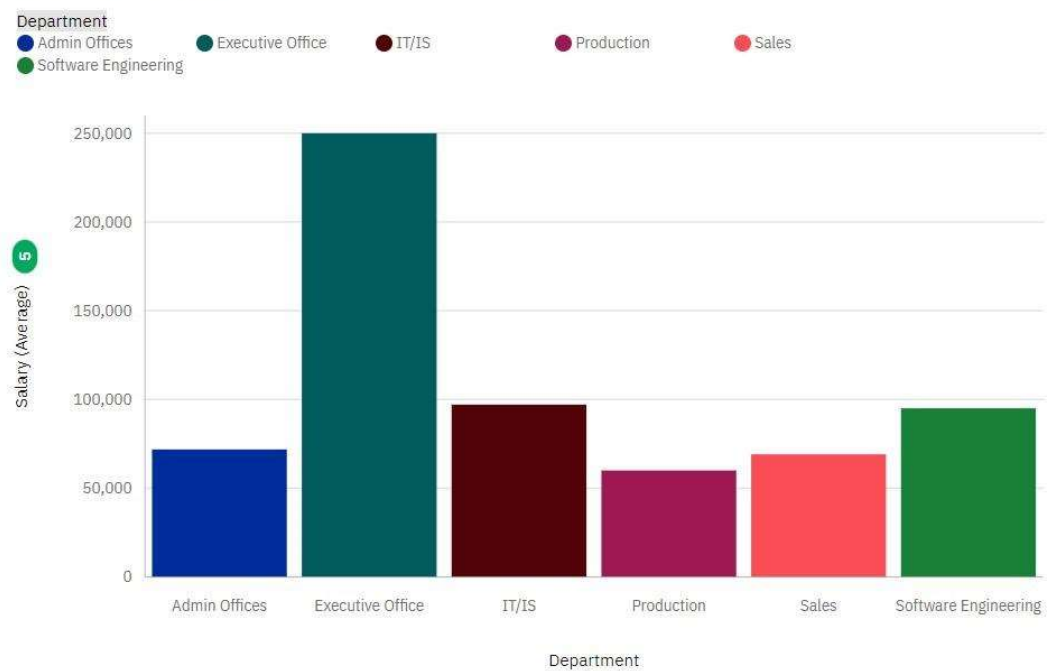


6. Department - wise Salary Distribution

Length - Salary

Color - Department

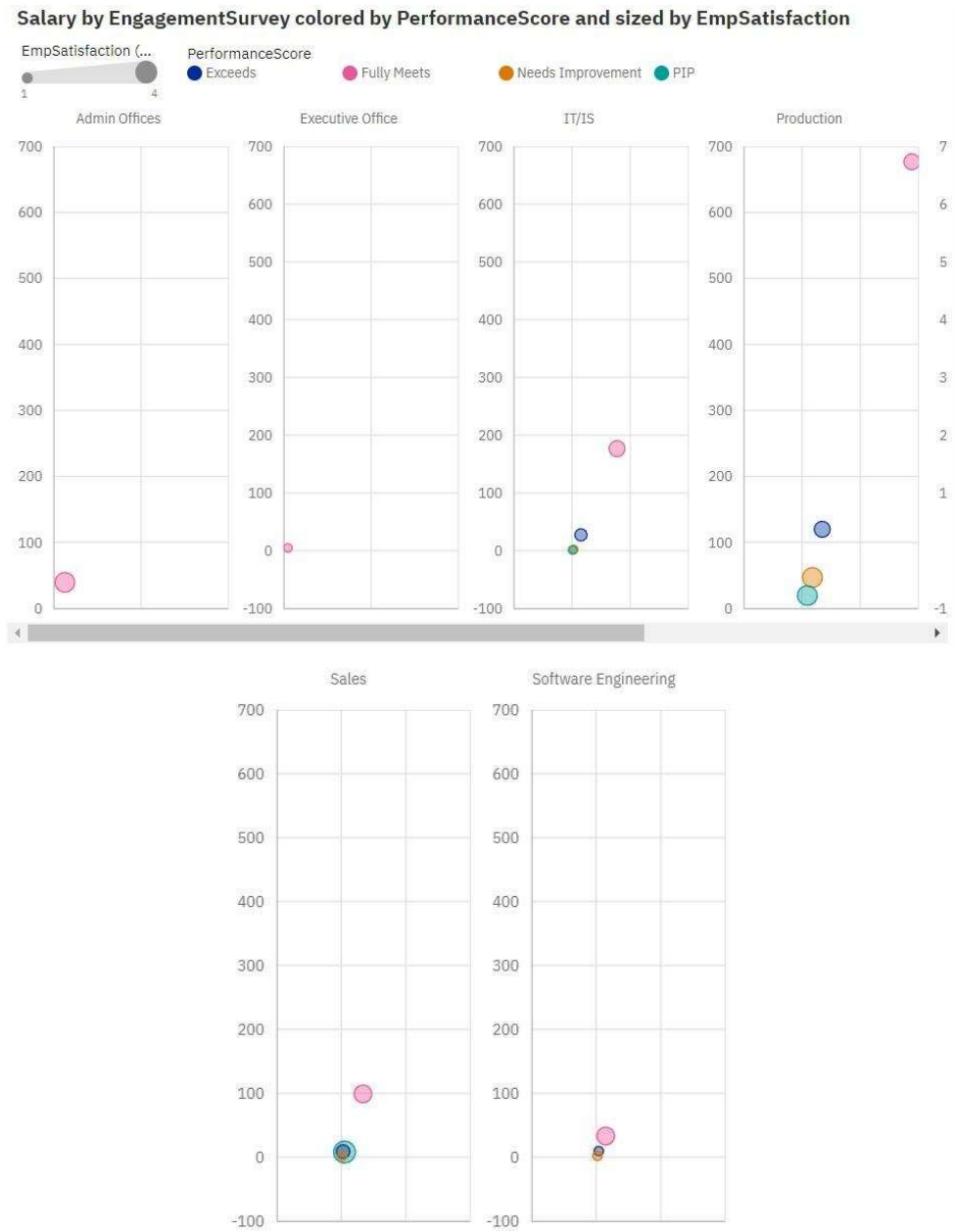
Salary, Department



7. State - wise distribution of Employees

Locations - State

Color - State



10. Performance of all Mangers according to their
 Performance Scoresx axis - ManagerName y axis -
 PerformanceScore

PerformanceScore by ManagerName



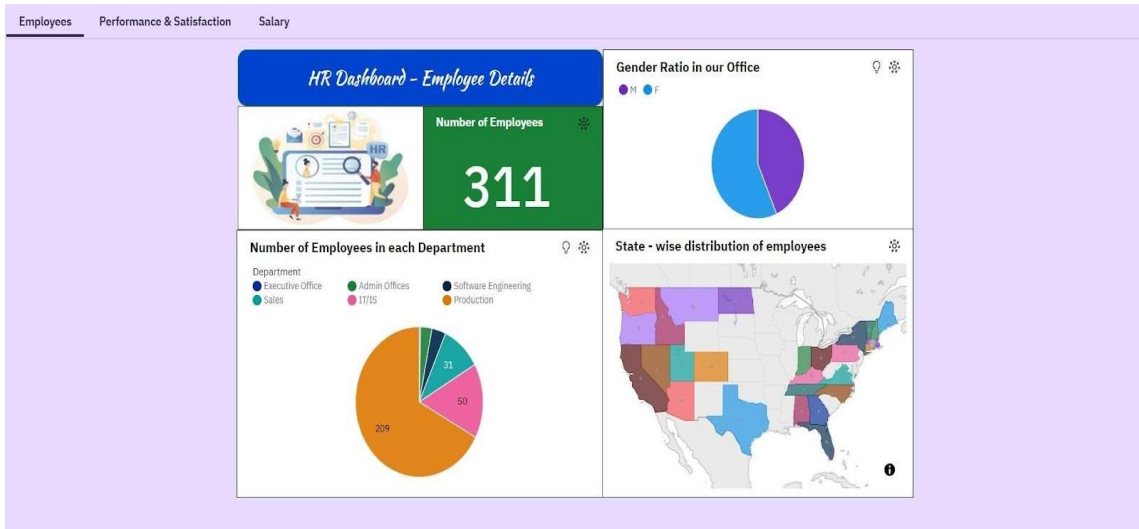
11. Termination ReasonsWords - TermReason
Size - TermReason

TermReason sized by TermReason

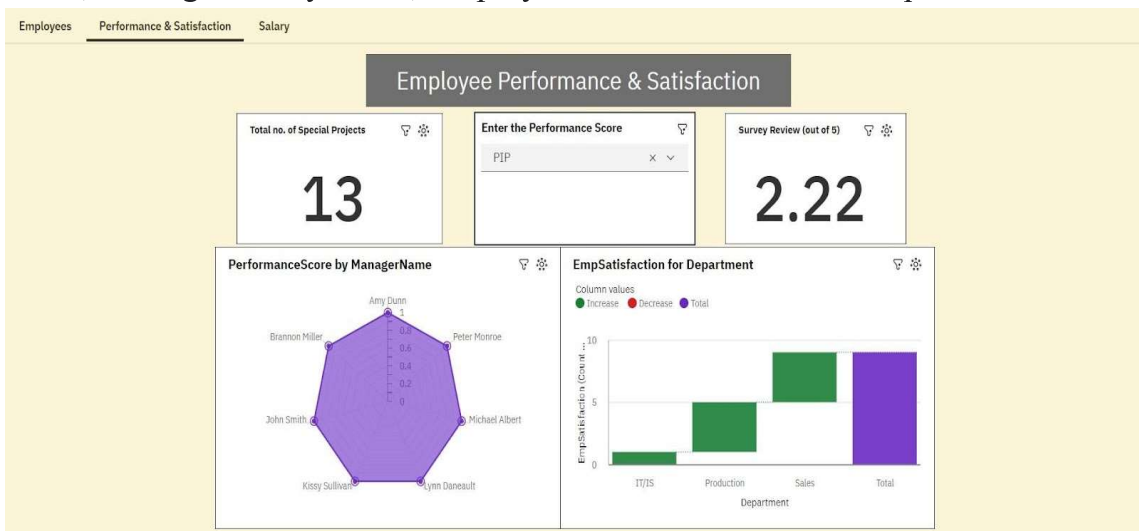


DASHBOARD

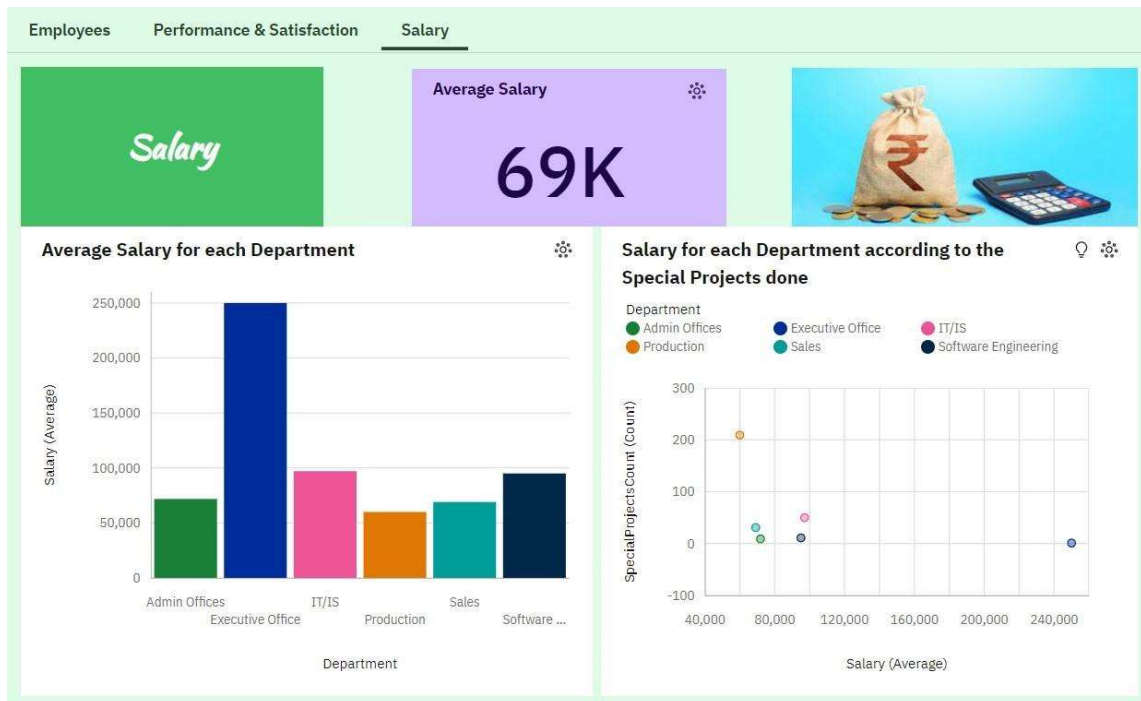
1. General Employee Details - Employee count, sexual and racial distribution, state wise distribution



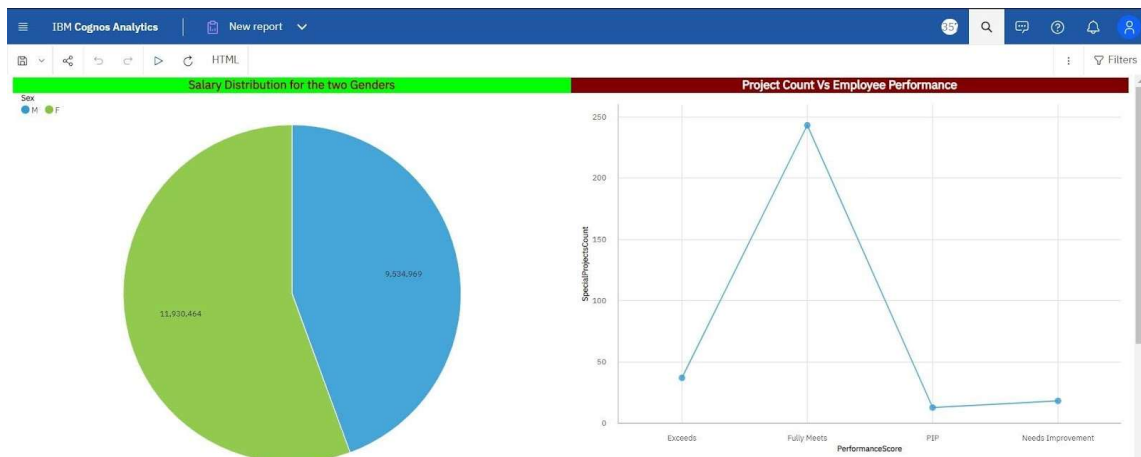
2. Employee Performance and Satisfaction - Special Projects count, Performance Score, Average Survey count, Employee Satisfaction in each Department



3. Salary Distribution - Average Salary, Department wise average salary, effect of special projects on salary

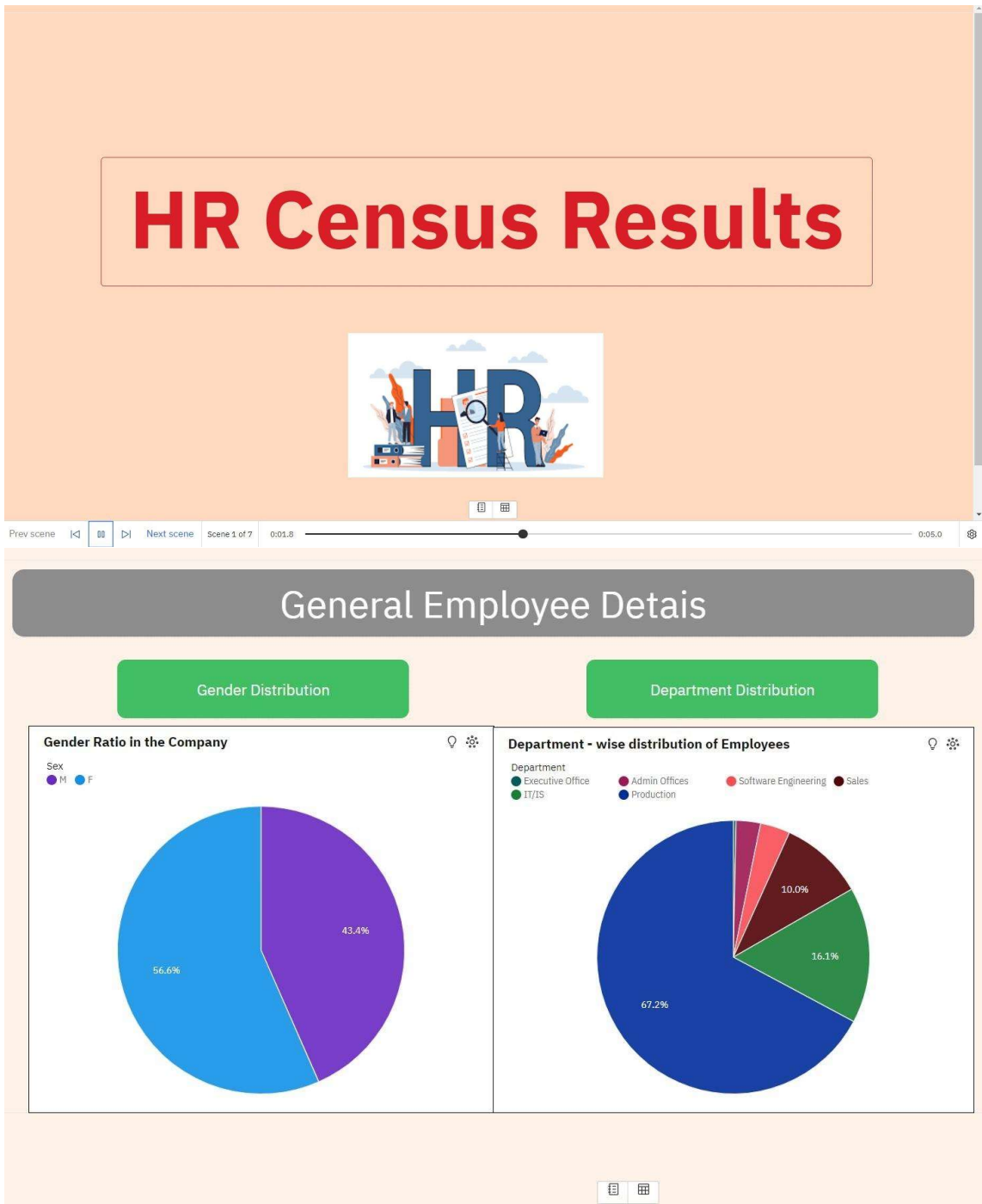


REPORT





STORY



United by the Racial Differences

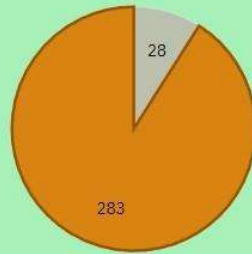
Our company has people from various backgrounds, yet the harmony remains intact



Hispanic Latino Ratio

HispanicLatino

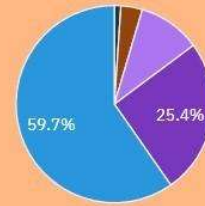
YES NO



Racial Distribution

RaceDesc

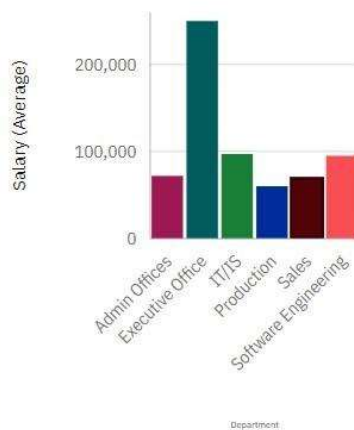
American Indian or Alaska Native
Two or more races
Asian



Salary Distribution & Factors Affecting Salary of Employees

- The visualization on the left depicts the average salary of employees working in each department.
- The visualization on the right depicts how special projects in each department affect the average salaries in the departments.

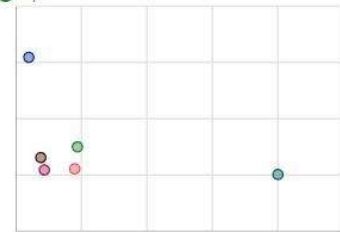
Salary, Department



Salary by SpecialProjectsCount colored by Department

Department

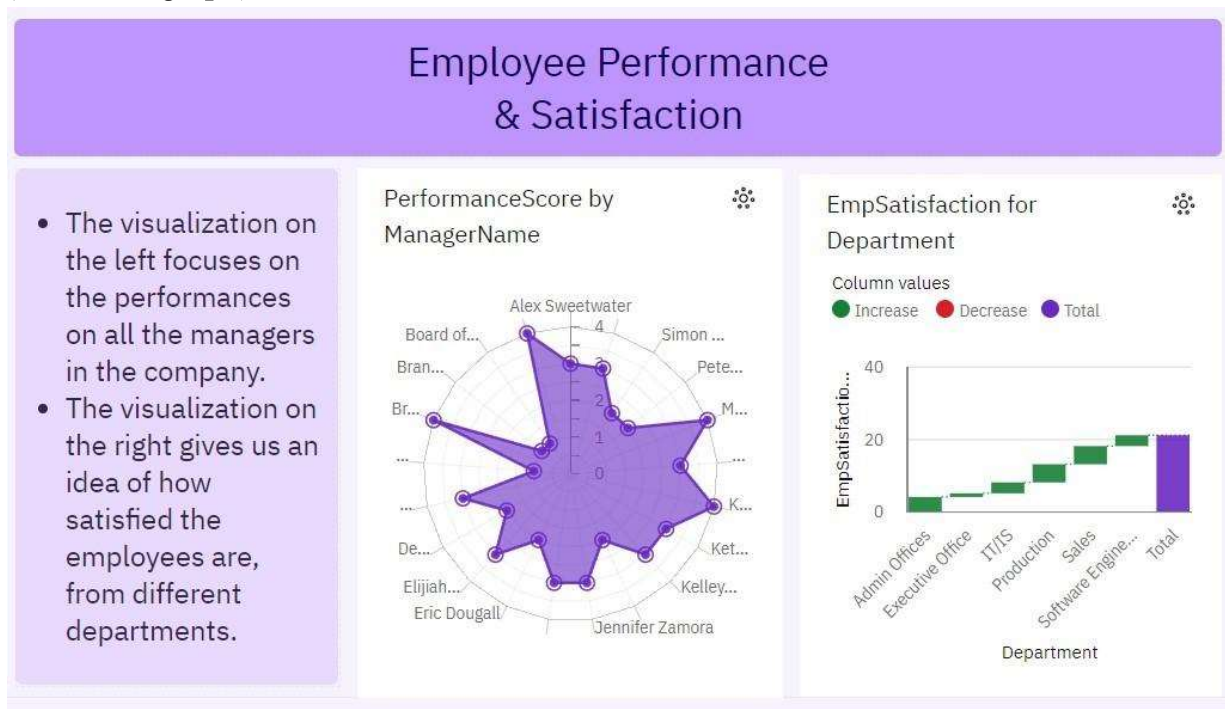
Admin Offices
Executive Office
IT/IS



50,000 100,000 150,000 200,000 250,000 300,000



(scrollable graph)



Termination of Employees

On selecting the reasons for termination from the filter dropdown, we can assess the count of people terminated from our organization for the selected reason. This can help in accessing the different reasons for termination and also check if there is anything that the organization can do in order to reduce certain



Termination Reason



MORE MONEY



Number of Employees Terminated



1