

Smartinternz externship



Data Analytics with IBM cognos Analytics

Assignment 2

Name: SHAIK HENNA YASMINE

Email ID: henna.21bec7206@vitapstudent.ac.in

Registration Number : 21BEC7206

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%2FHRR%2BData%2BModule

VISUALIZATIONS

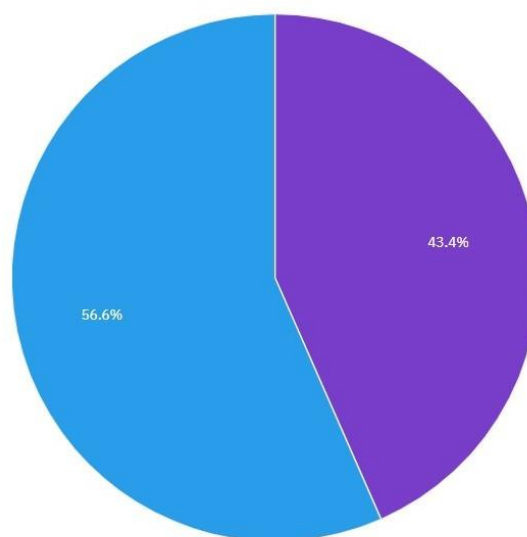
1. Gender Ratio

Segments - Sex

Size - Sex

Sex by Sex

Sex
● M ● F



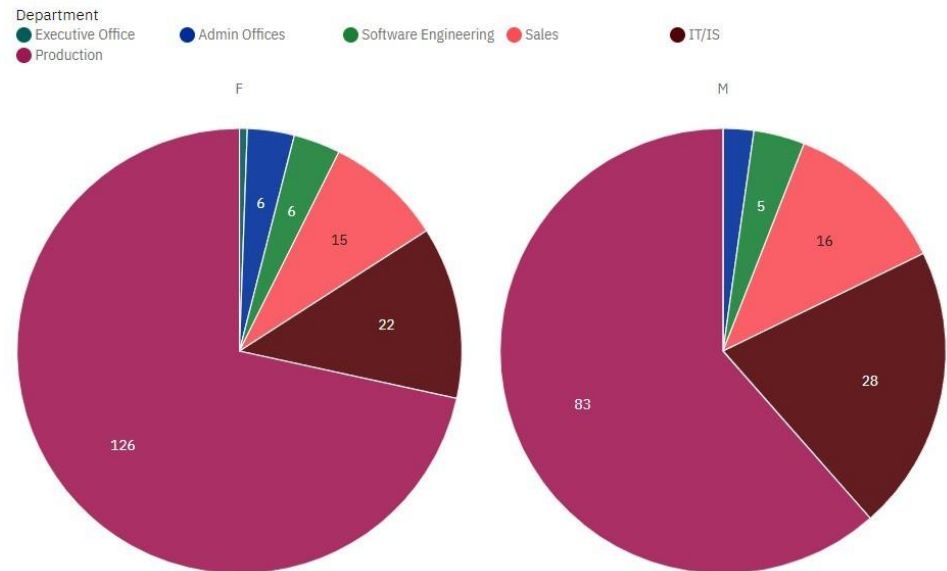
2. Gender Distribution in Different Departments

Segments - Department

Size - Department

Repeat (column) - Sex

Department by Department

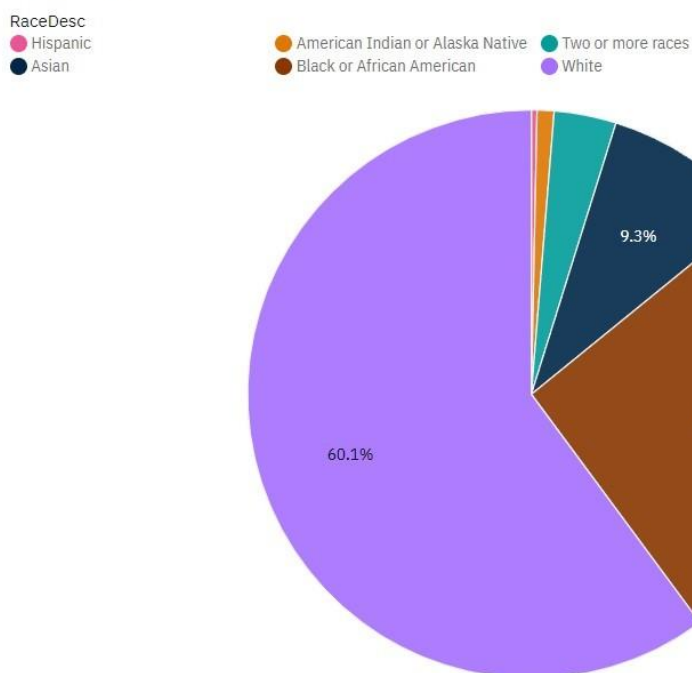


3. Racial Distribution

Segments - RaceDesc

Size - RaceDesc

RaceDesc by RaceDesc



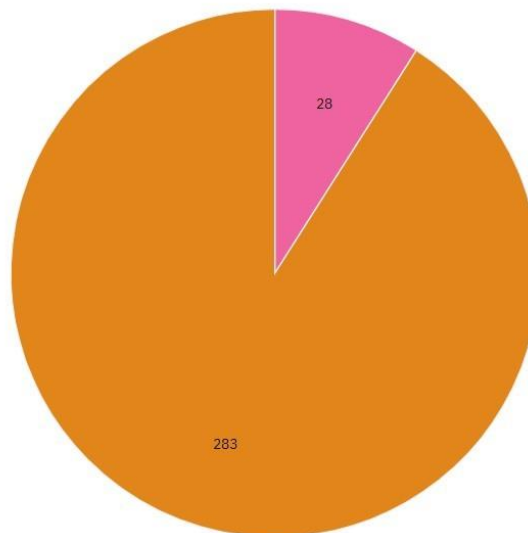
4. *Hispanic Latino ratio*

Segments - HispanicLatino

Size - HispanicLatino

HispanicLatino by HispanicLatino

HispanicLatino
● YES ● NO



5. *Salary dependent on Special Project Count per Department*

x axis - Salary

y axis - SpecialProjectsCount

Color - Department

Salary by SpecialProjectsCount colored by Department

Department
● Admin Offices ● Executive Office ● IT/IS ● Production ● Sales
● Software Engineering

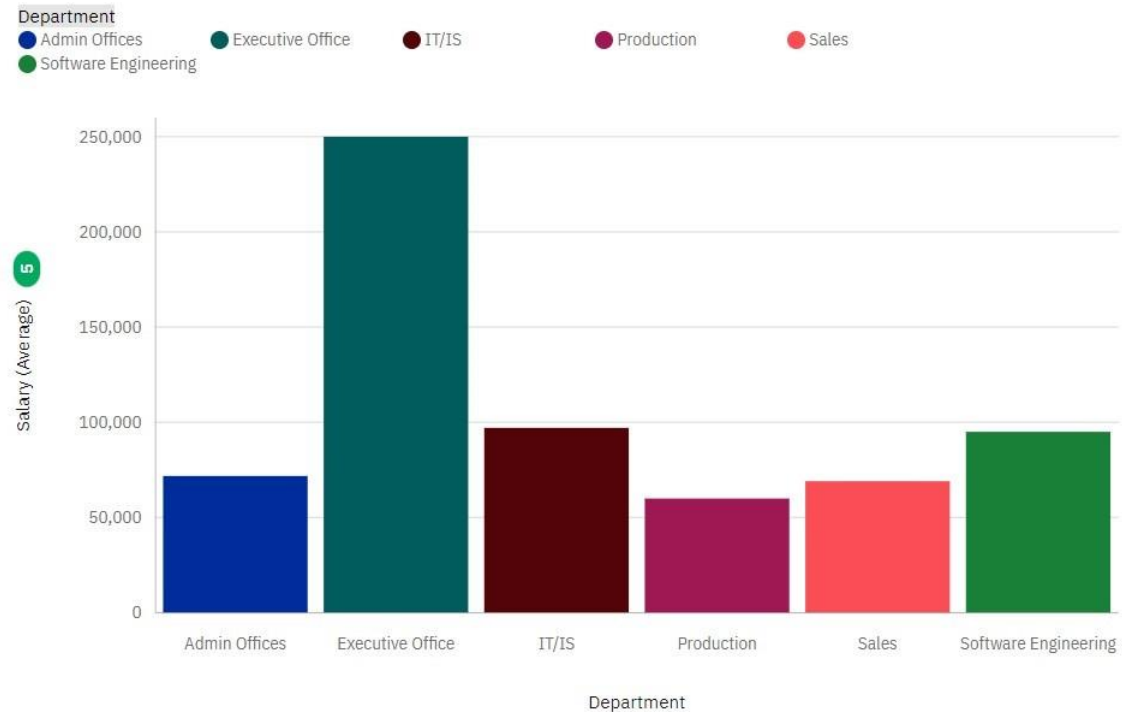


6. Department - wise Salary Distribution

Length - Salary

Color - Department

Salary, Department

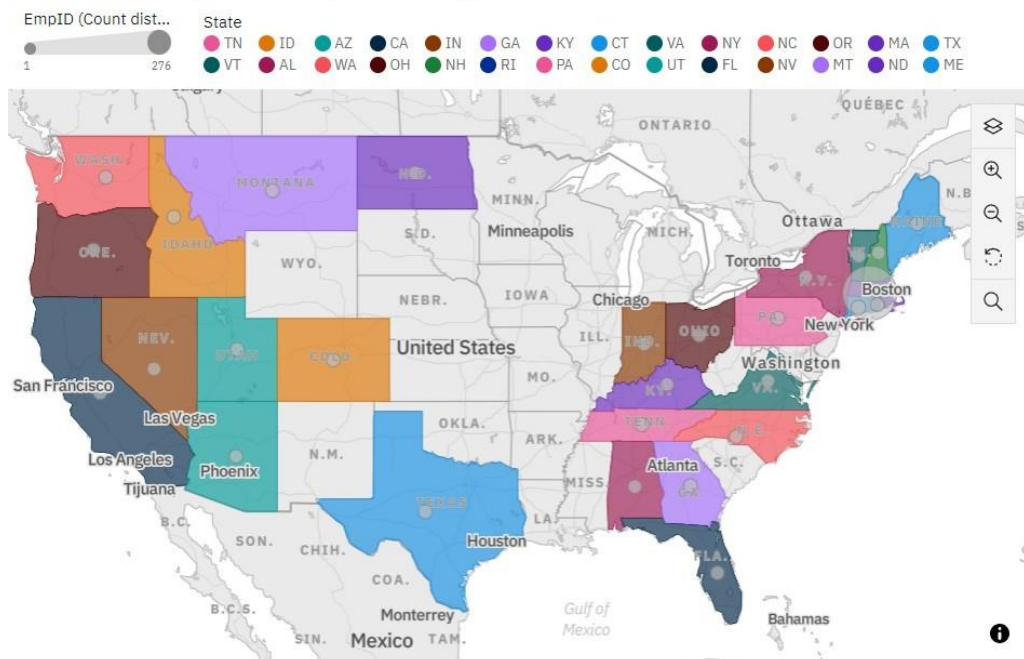


7. State - wise distribution of Employees

Locations - State

Color - State

State for State regions and EmpID for State points



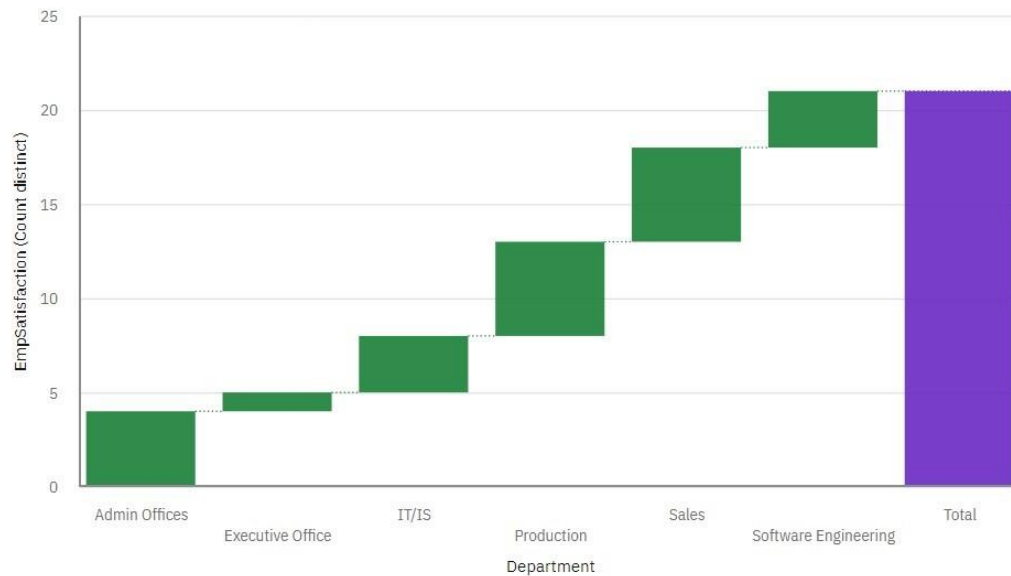
8. Employee satisfaction rate for employees in each Department

x axis - Department

y axis - EmpSatisfaction

EmpSatisfaction for Department

Column values
 Increase Decrease Total



9. Salary differentiated by Performance score for each department keeping the engagement survey in mind

Size - EmpSatisfaction , Repeat (column) - Department

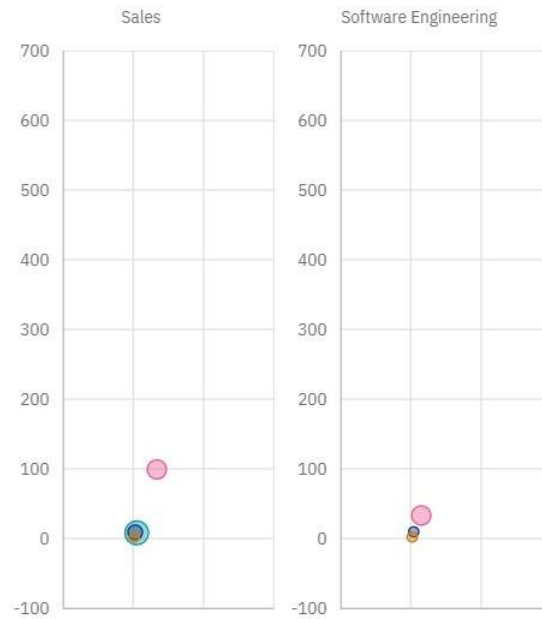
x axis - Salary

y axis - EngagementSurvey

Color - PerformanceScore

Salary by EngagementSurvey colored by PerformanceScore and sized by EmpSatisfaction





10. Performance of all Managers according to their Performance Scores

x axis - ManagerName

y axis - PerformanceScore

PerformanceScore by ManagerName



11. Termination Reasons

Words - TermReason

Size - TermReason

TermReason sized by TermReason

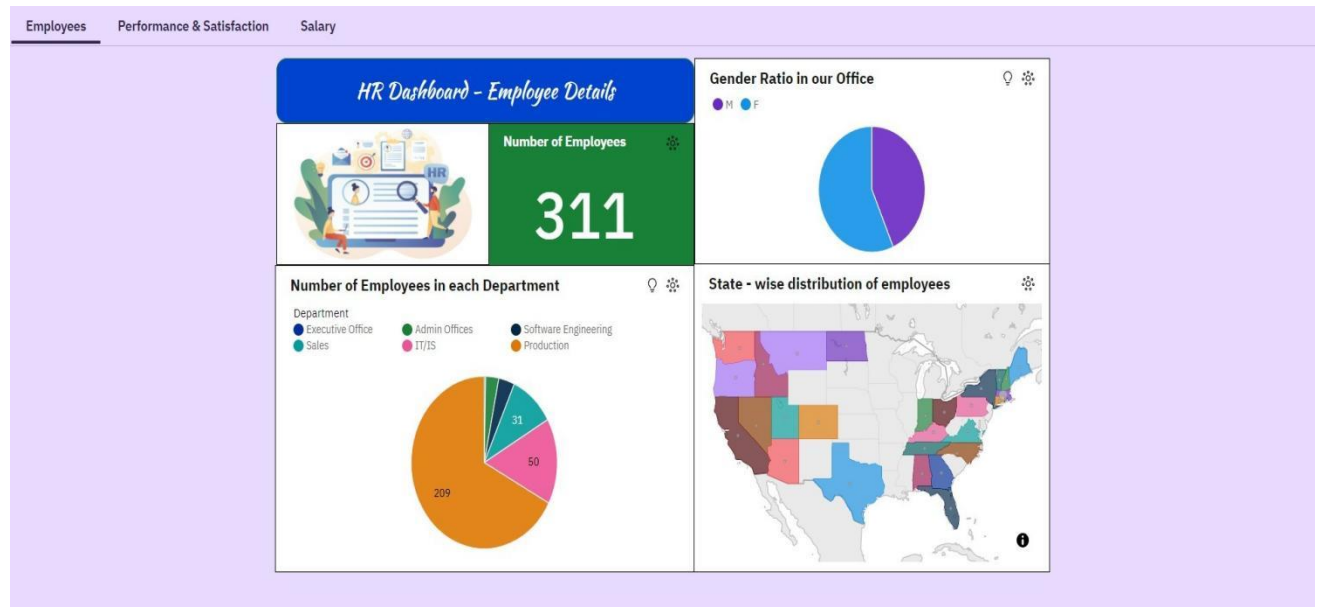
TermReason (Cou...



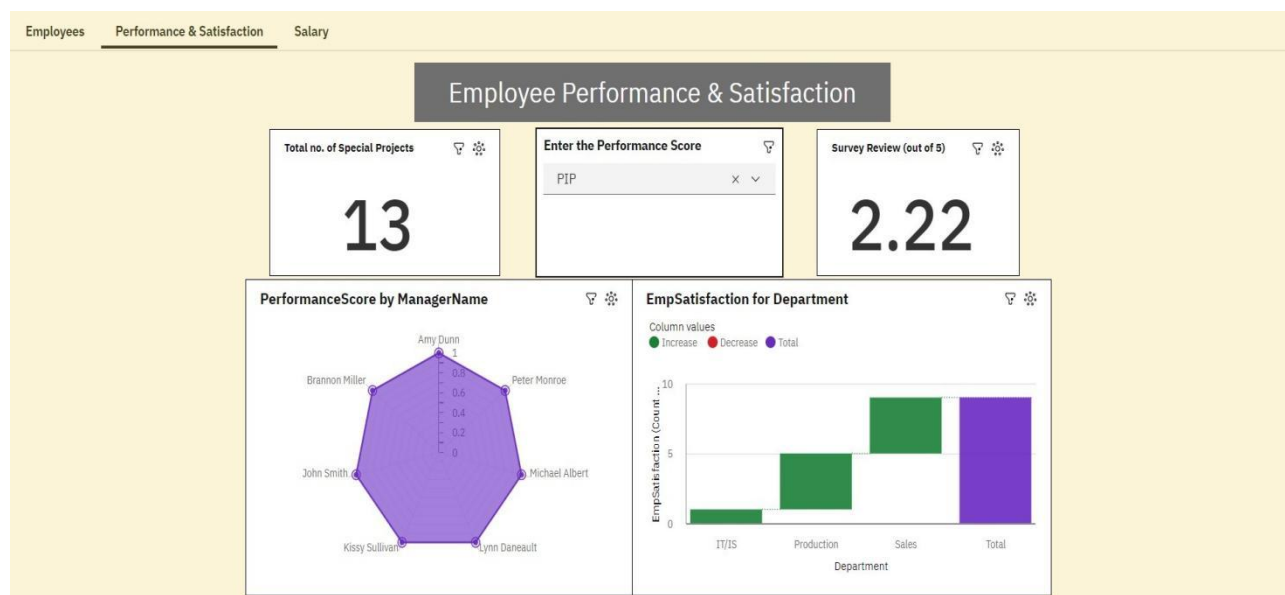
N/A-STILLEMPLYED

DASHBOARD

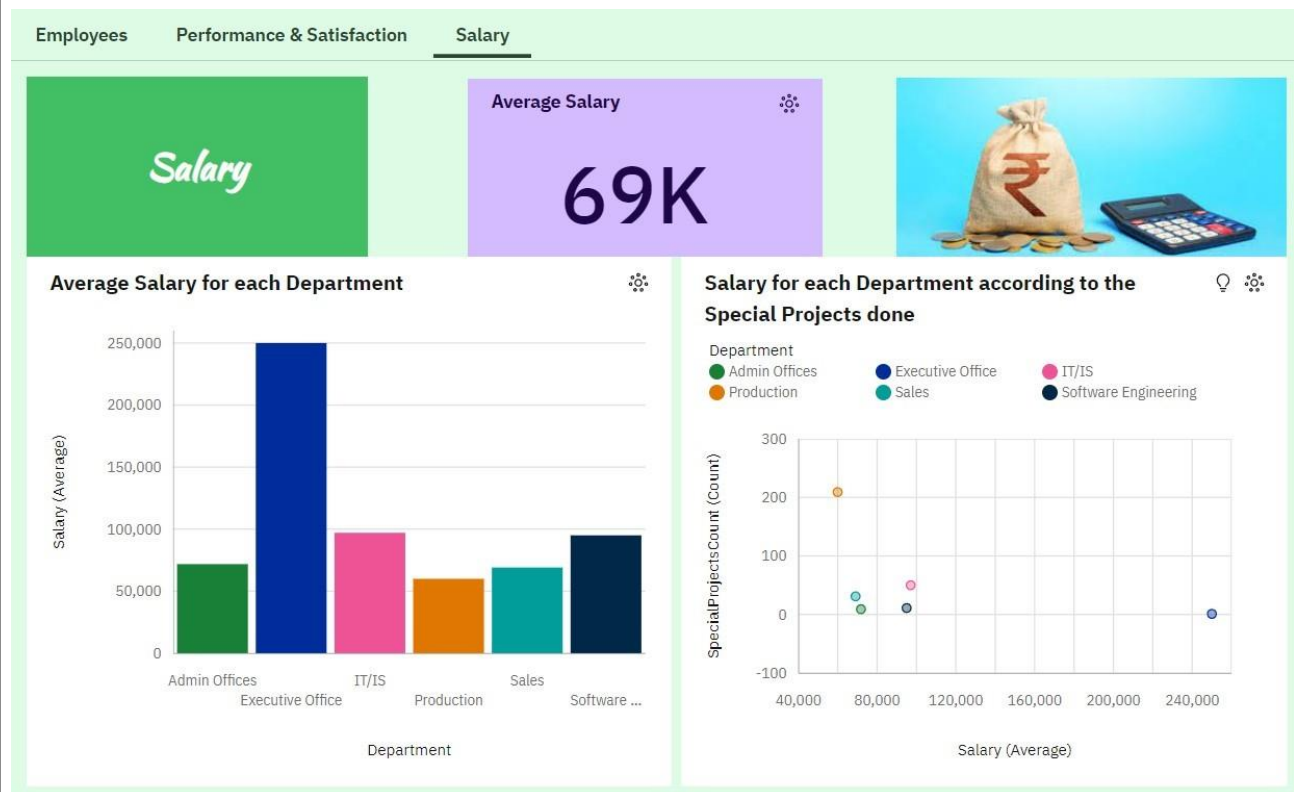
1. General Employee Details - Employee count, sexual and racial distribution, state - wise distribution



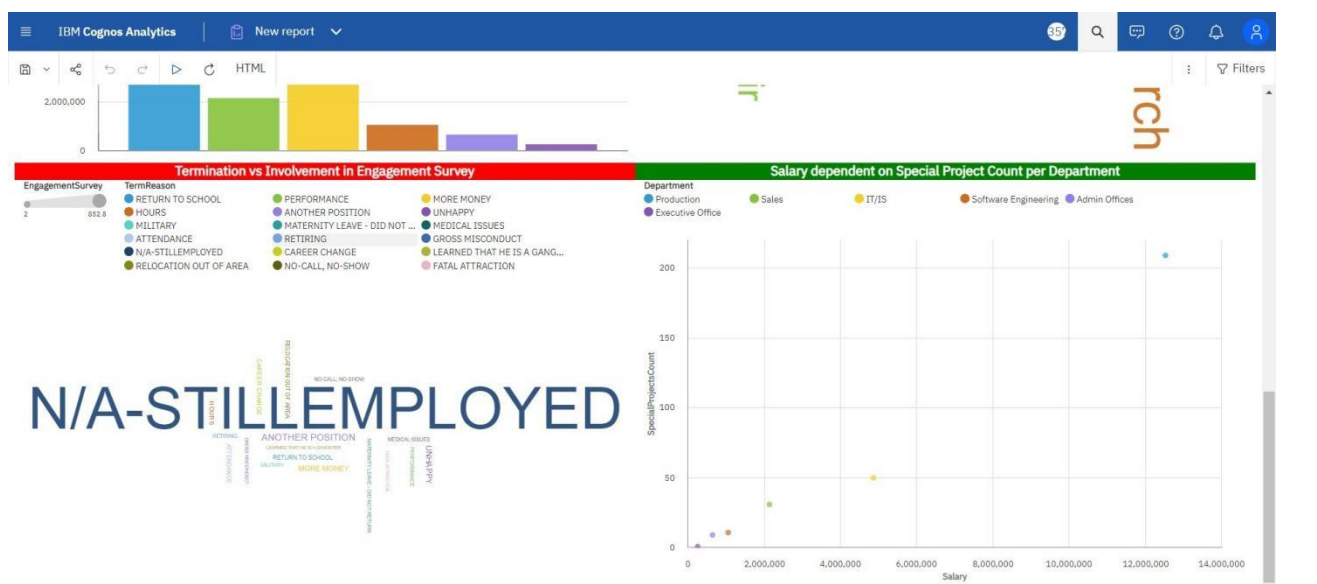
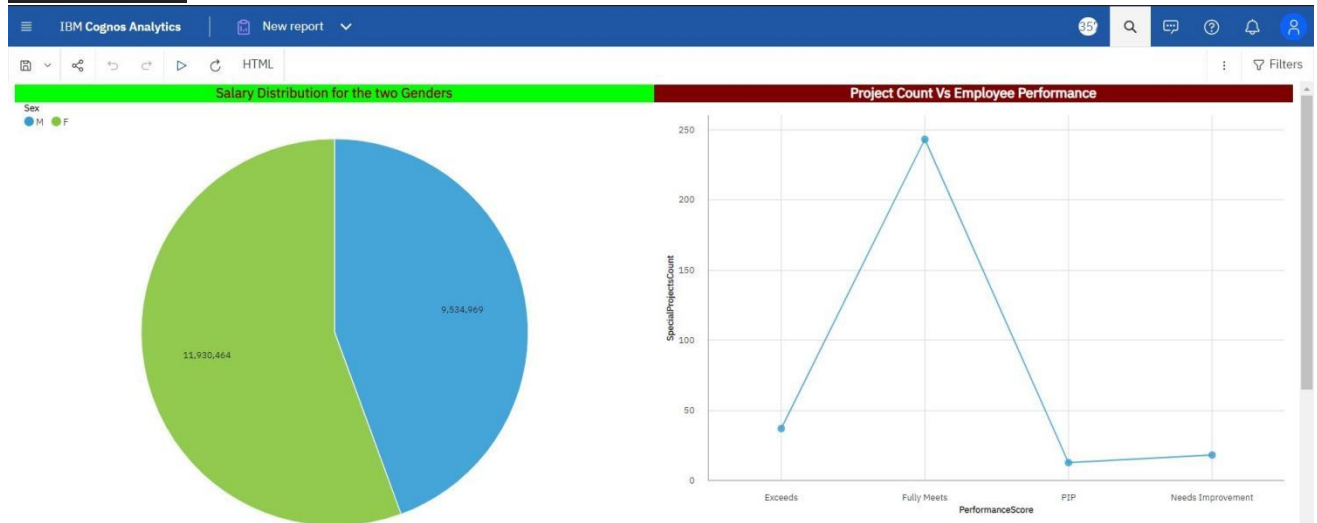
2. Employee Performance and Satisfaction - Special Projects count, Performance Score, Average Survey count, Employee Satisfaction in each Department



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



REPORT



STORY

HR Census Results



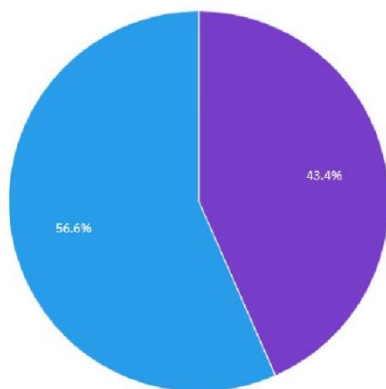
Prev scene |< 00 |> Next scene | Scene 1 of 7 | 0:01.8 | 0:05.0 |

General Employee Details

Gender Distribution

Gender Ratio in the Company

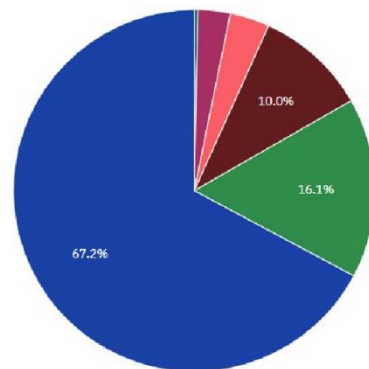
Sex
M F



Department Distribution

Department - wise distribution of Employees

Department
Executive Office Admin Offices Software Engineering Sales
IT/IS Production



|< |>

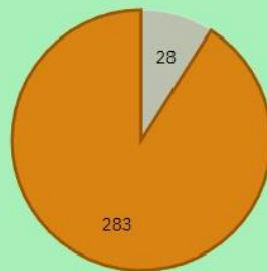
United by the Racial Differences

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



Hispanic Latino Ratio

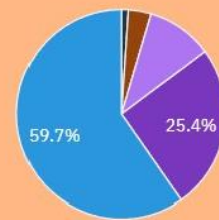
HispanicLatino
 YES NO



Racial Distribution

RaceDesc

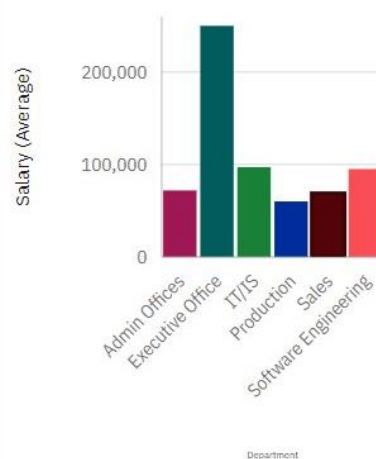
American Indian or Alaska Native
 Two or more races
 Asian



Salary Distribution & Factors Affecting Salary of Employees

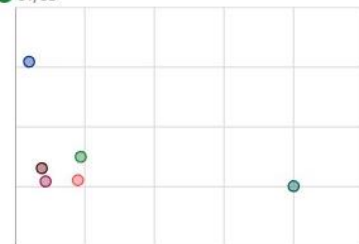
- The visualization on the left depicts the average salary of employees working in each department.
- The visualization on the right depicts how special projects in each department affect the average salaries in the departments.

Salary, Department



Salary by SpecialProjectsCount colored by Department

Department
 Admin Offices
 Executive Office
 IT/IS



Salary on Basis of Performance Score for each Department

Salary by EngagementSurvey colored by PerformanceScore and sized by EmpSatisfaction

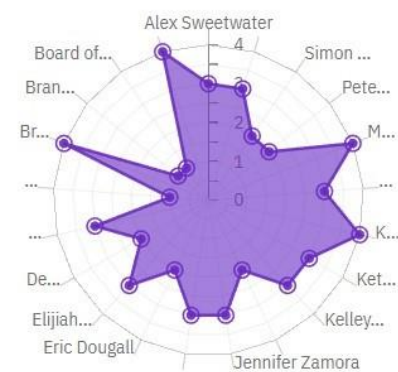


(scrollable graph)

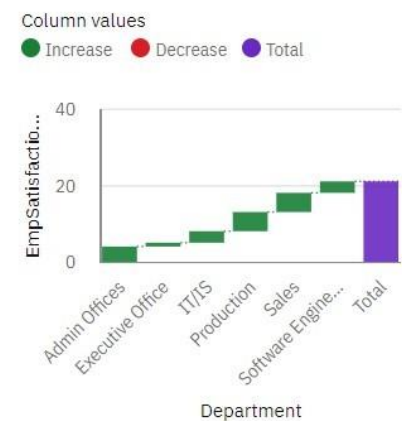
Employee Performance & Satisfaction

- The visualization on the left focuses on the performances on all the managers in the company.
- The visualization on the right gives us an idea of how satisfied the employees are, from different departments.

PerformanceScore by ManagerName



EmpSatisfaction for Department



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