Smartinternz Externship

Data Analytics with IBM Cognos Analytics



TITLE: The Cognos HR Scorecard Assignment 2

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AIM: Measuring Success in Talent Management

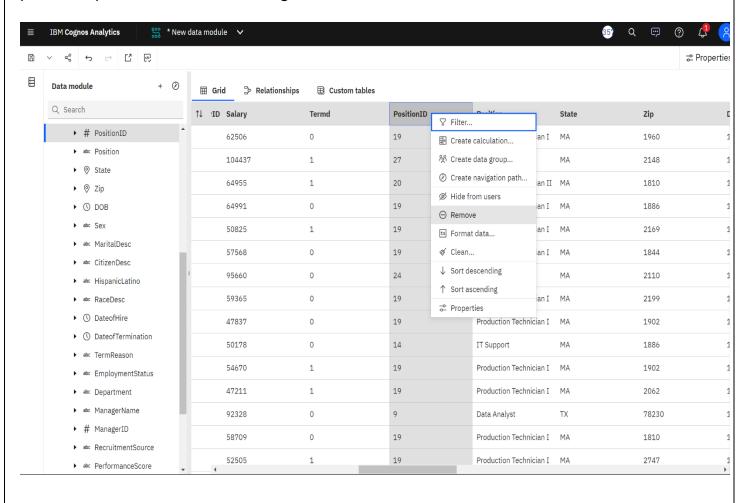
Challenge:- Upload the dataset to Cognos Analytics, prepare the data, explore and Create Interactive Dashboard, Report and Story.

For the given dataset, the following changes have been made in order to remove noisy and unwanted data. Some attributes appear to be potentially unnecessary due to their similarity or redundancy.

MaritalStatusID and MaritalDesc: These two attributes seem to represent the same information, marital status, in different ways. Thus for this project we will be removing MaritalstatusID.

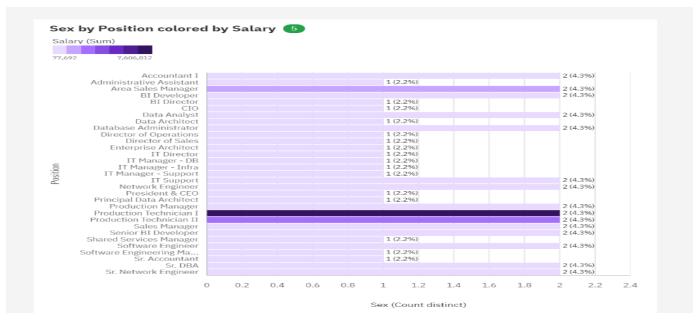
RaceDesc: This attribute is unnecessary. It's not entirely clear what it represents or if it's needed for the analysis.

PositionID: If the Position attribute already contains the text name/title of the person's position, PositionID might be redundant.



Exploring the dataset and visualizing.

1. Sex by Position colored by Salary

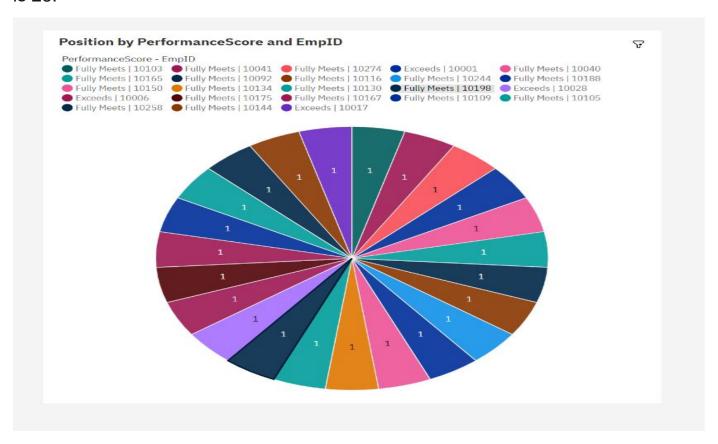


The overall number of results for **Sex** is 311.

Production Technician I is the most frequently occurring category of **Position** with a count of 137 items with **Sex** values (44.1 % of the total).

2. Position by Performance score and Emp ID

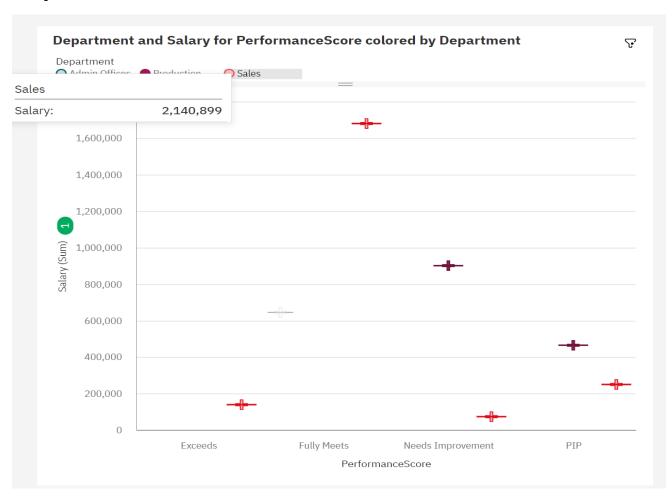
The total number of results for Position, across all Performance Score - EmpID, is 23.



3. Salary by Performance Score and Department.



4.Department and Salary for Performance Score colored by Department



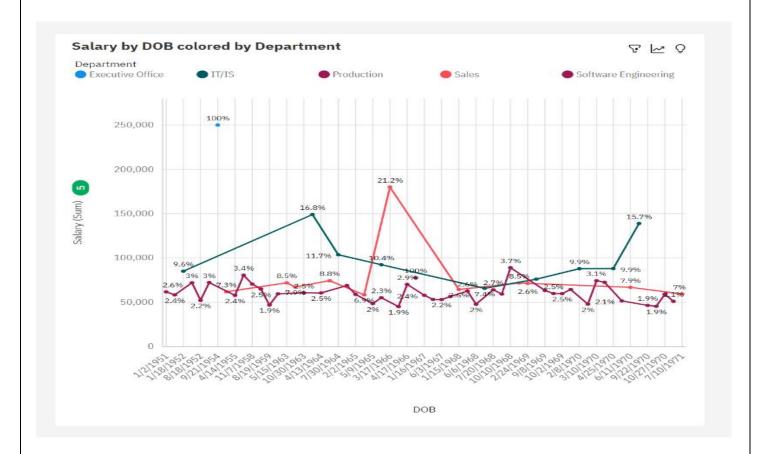
5. Salary by DOB colored by Department

Salary is unusually high when Department is Production.

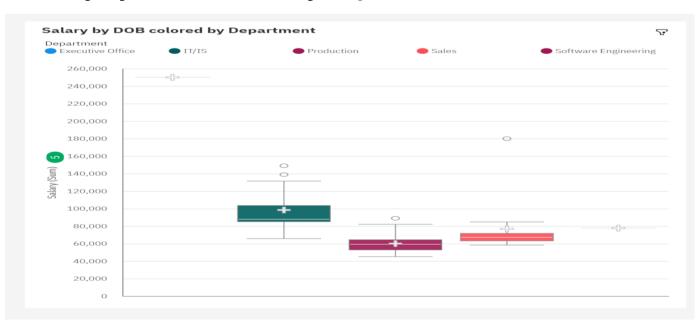
Over all values of DOB and Department, the sum of Salary is nearly 4.5 million. The summed values of Salary range from over 45 thousand to 250 thousand.

For Salary, the most significant value of DOB is 1954-09-21, whose respective Salary values add up to 250 thousand, or 5.6 % of the total.

For Salary, the most significant value of Department is Production, whose respective Salary values add up to over 2.4 million, or 53.8 % of the total.



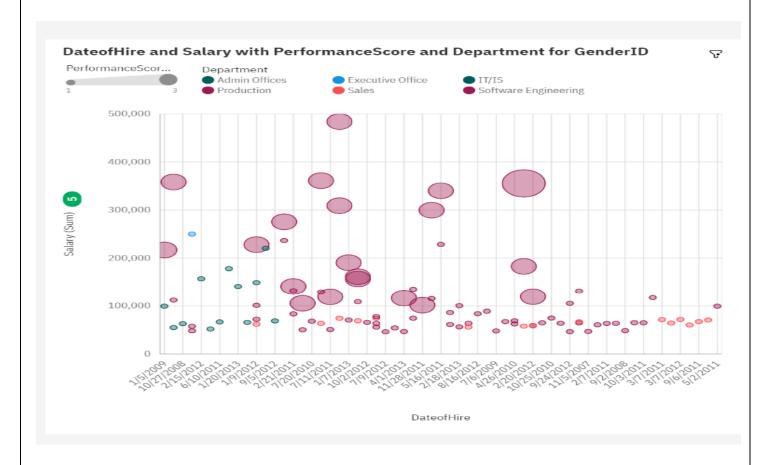
6. Salary by DOB colored by Department



7. DateofHire and Salary with PerformanceScore and Department for GenderID

Across all values of DateofHire and Department, the sum of Salary is over eleven million.

The summed values of Salary range from over 46 thousand to almost 484 thousand. For Salary, the most significant value of Department is Production, whose respective Salary values add up to nearly 8.3 million, or 72 % of the total. For Salary, the most significant value of DateofHire is 2011-01-10, whose respective Salary values add up to over 867 thousand, or 7.6 % of the total.

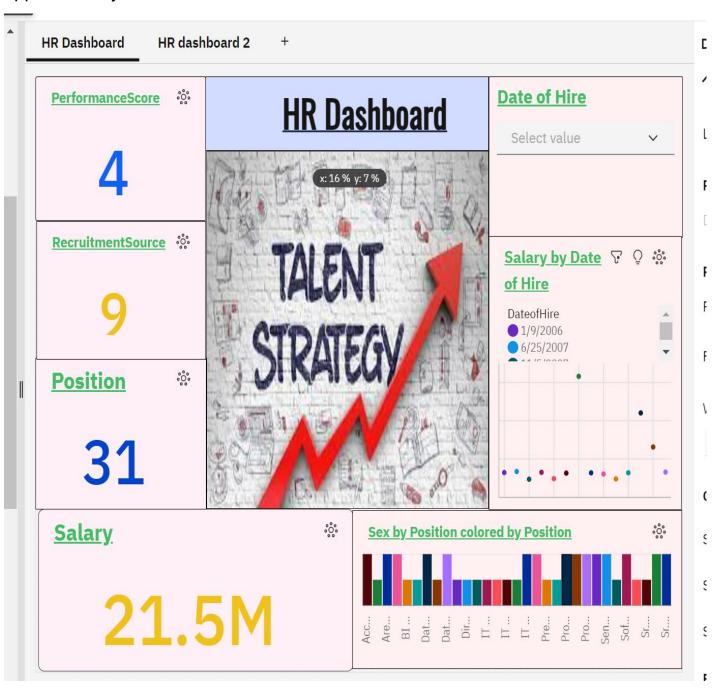


Creating a Dashboard On HR Scorecard.

From the created dashboard, we can derive the following insights:

On January 5, 2009, employees with the DateofHire had the highest Salary, exceeding 316 thousand dollars. Among them, employees with Manager ID 2 contributed the most, with a combined salary of nearly 171 thousand dollars.

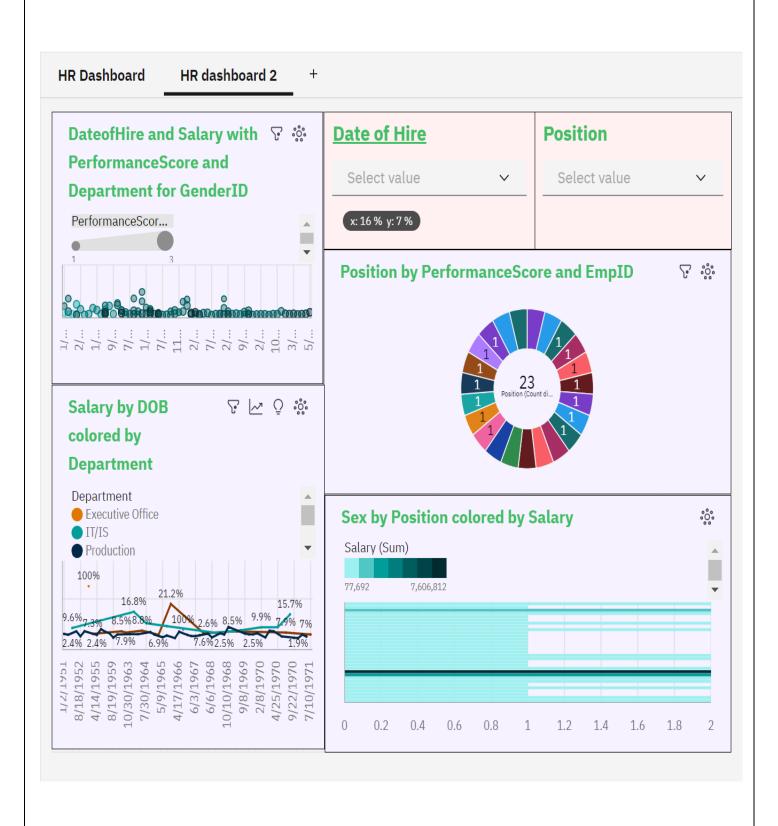
Regarding Salary, the DateofHire with the most significant impact is January 5, 2009, with cumulative Salary values exceeding 316 thousand dollars, representing approximately 23.9% of the total



Creating a dashboard based on visualizations obtained from the dataset.

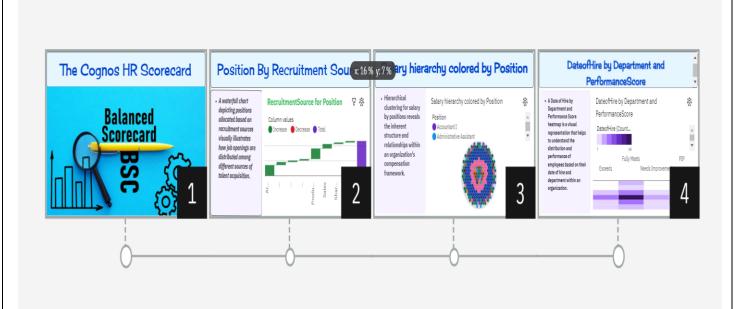
When considering all DateofHire values, the total sum of Salary amounts to over 1.3 million dollars.

The aggregated Salary values vary, ranging from over 47 thousand dollars to over 316 thousand dollars.

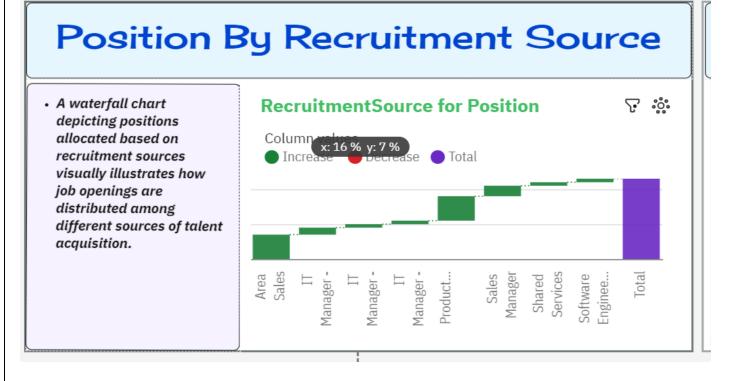


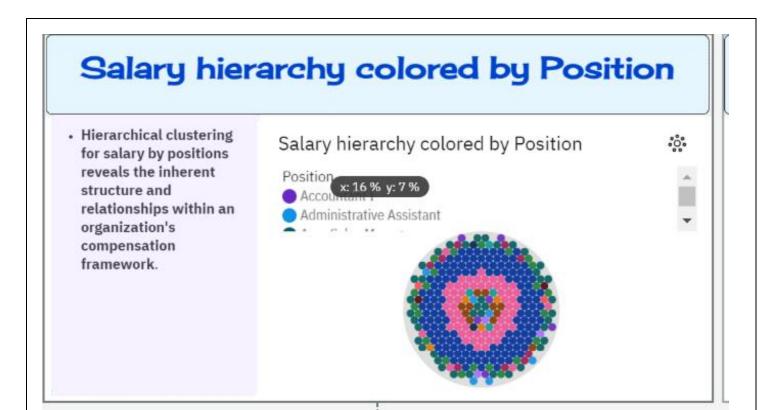
Creating a Report Pages > Page1 Report > щ \blacksquare \blacksquare 面 SALARY ACCORDING TO RECRUITMENTSOURCE POSITION ACCORDING TO GENDER RecruitmentSource Position Production Technician I Diversity Job Fair Employee Referral Indeed Google Search Sr. DBA Data Analyst LinkedIn On-line Web application Sr. Accountant CareerBuilder Website Accountant I Other Network Engineer President & CEO Principal Data Architect 2,413,748 1,753,179 2,095,286 7,606,812 4,932,652 21,465,433 Salary 967,192 6,568,130 2,976,497 3,698,856 SALARY BY PERFORMANCE SCORE COLORED BY SALARY ACCORDING TO GENDER DEPARTMENT Sex Salary Department M = F Production Software Engineering IT/IS Admin Offices 220,569 7,512,173 Sales Executive Office 18,000,000 16,000,000 14,000,000 IT/IS 12,000,000 10,000,000 Production Production 8,000,000 6,000,000 IT/IS 4,000,000 2,000,000 0 Needs Improvement Exceeds Fully Meets PerformanceScore

Creating a Story









DateofHire by Department and PerformanceScore

 A Date of Hire by Department and Performance Score heatmap is a visual representation that helps to understand the distribution and performance of employees based on their date of hire and department within an organization.

