

IBM COGNOS POWERED HR AND PEOPLE ANALYTICS DASHBOARD

-By kumar Karthik

*A report submitted in fulfillment of the
requirements for the challenge PROJECT
BUILD-A-THON*

Department of Mechanical Engineering
Sir CR Reddy College of Engineering and Technology
5 December,2021

TABLE OF CONTENTS

1	INTRODUCTION.....>04
	1.1 Overview
	1.2 Purpose
2	LITERATURE SURVEY.....>05
	2.1 Existing problem
	2.2 Proposed solution
3	THEORETICAL ANALYSIS.....>06
	3.1Block diagram
	3.2 Hardware/Software designing
4	EXPERIMENTAL INVESTIGATIONS.....>07
5	FLOW CHART.....>08
6	RESULT.....>09
7	ADVANTAGES AND DISADVANTAGES.....>12
8	APPLICATIONS.....>13
9	CONCLUSION.....>14
10	FUTURESCOPE.....>14
11	BIBILOGRAPHY.....>15

LIST OF FIGURES, _FLOWCHART

Page No:

FIG 3.1 DIAGRAMMATIC OVERVIEW OF THE PROJECT.....	>6
FIG 5.1 CONTROL FLOW OF THE SOLUTION.....	>8
FIG 6.1 Table analyzing Age, Attrition#, YearsAtCompany, TotalWorkingYears and MonthlyIncome	>9
FIG 6.2 Attrition# by JobRole.....	> 9
FIG 6.3 YearsInCurrentRole by YearsSinceLastPromotion Colored by Attrition.....	> 10
FIG 6.4 Attrition# for YearsWithCurrManager hierarchy.....	> 10
FIG 6.5 Attrition# by NumCompaniesWorked colored by JobRole.....	> 11
FIG 6.6 FINAL DASHBOARD.....	> 11

1.INTRODUCTION

1.1 Overview

- ✓ IBM Cognos Analytics integrates reporting, modeling, analysis, dashboards, stories, and event management so you can understand your organization's data, and make effective business decisions.
- ✓ Analytics is the interpretation of data patterns that assist decision-making and performance improvement.
- ✓ HR analytics is defined as the process of measuring the impact of HR metrics, such as time to hire and retention rate on business performance.
- ✓ In this project, we visualize, analyze and gain most of the insights by creating a dashboard.

1.2 Purpose

- This project helps us to know fundamental concepts and can work on IBM Cognos Analytics.
- Helps to gain a broad understanding of plotting different graphs.
- We will be able to create meaningful dashboards.
- The project aims to analyze the impact on business based on the Hr analytics using IBM Cognos

2.LITERATURE SURVEY

2.1 Existing problem

- To make analysis on given data we used four different methods provided by IBM cognos
- These four different methods help to upload the data , refining the data,providing clear analysis of data through different charts, tables etc and finally presenting the data in one frame with clear exploration.

2.2 proposed solution

- To solve the given problem we used the four different methods
- Those are:
 - 1)Upload data
 - 2)prepare data
 - 3)Exploration
 - 4)present data

3.THEORETICAL ANALYSIS

3.1 Block diagram

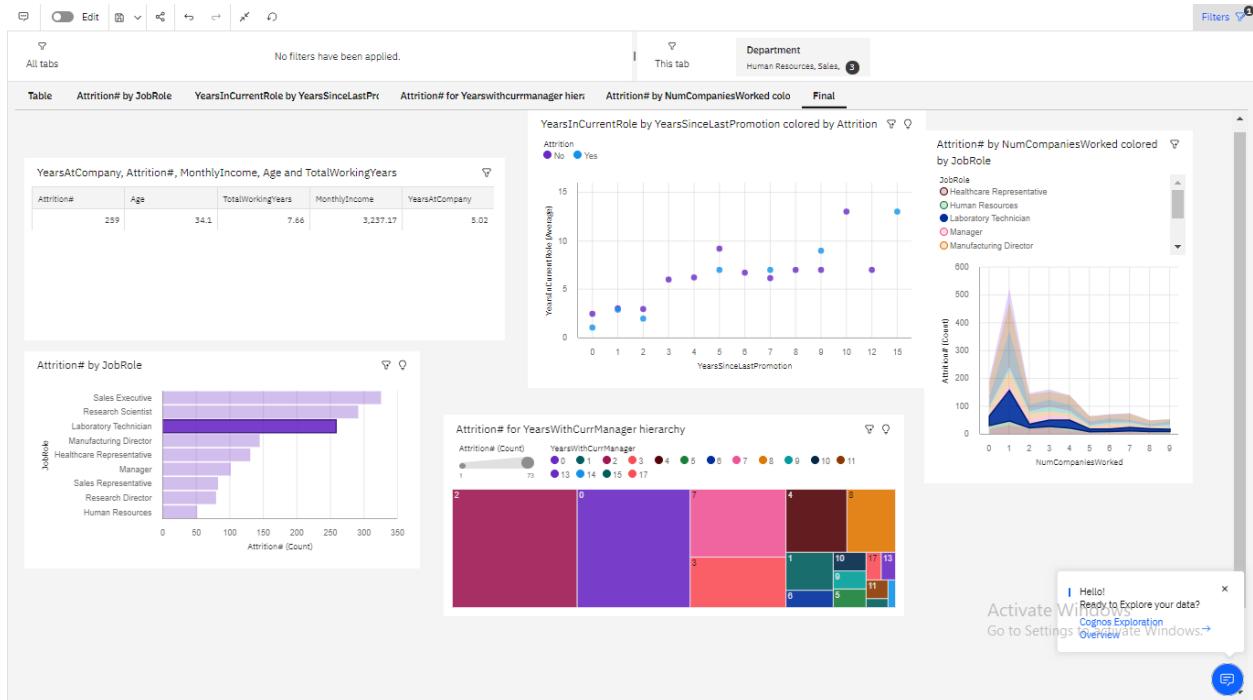


FIG 3.1 DIAGRAMMATIC OVERVIEW OF THE PROJECT

3.2 Hardware/Software designing

- ✦IBM cognos is the software required to build this project.
- ✦We used this software to complete our project.
- ✦Dataset is used to create dashboard.

4. EXPERIMENTAL INVESTIGATIONS

- IBM cloud account
- Log in to cognos analytics
- Working with the dataset
 - Understand the dataset
 - Loading the dataset
- Data visualization charts
 - Table analyzing age, TotalworkingYears, Attrition#, Years at company and monthly income
 - Attrition# by job role
 - YearsincurrentRole by Yearssincelastprpmotion
Colored by Attrition
 - Attrition# for Yearswithcurrmanager hierarchy
 - Attrition# by Numcompaniesworked colored by Jobrole
- Dashboard creation

5. FLOW CHART

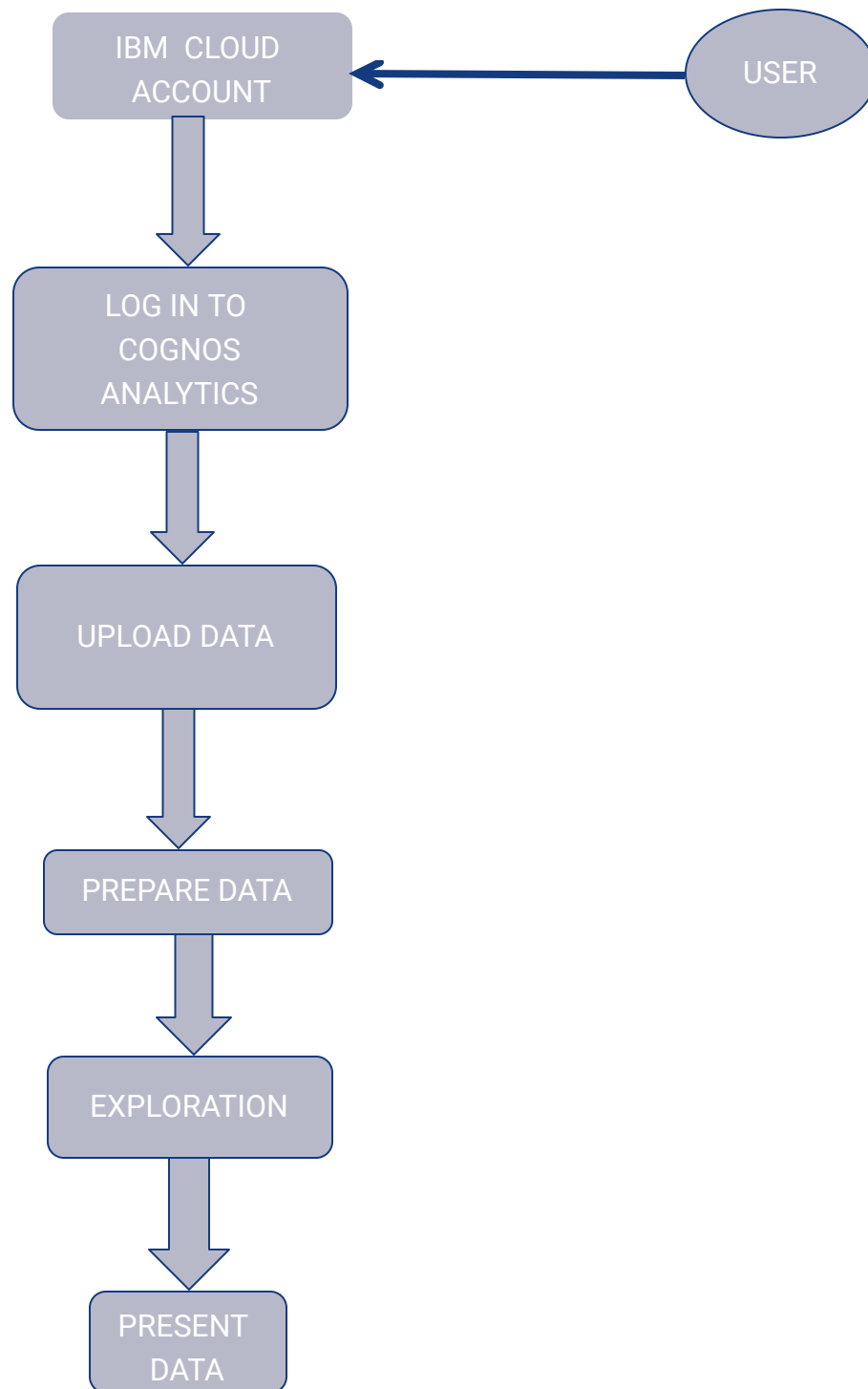


FIG 5.1 CONTROL FLOW OF THE SOLUTION

6.RESULT

Dashboard creation for Hr and people analytics is
Created by using IBM Cognos.

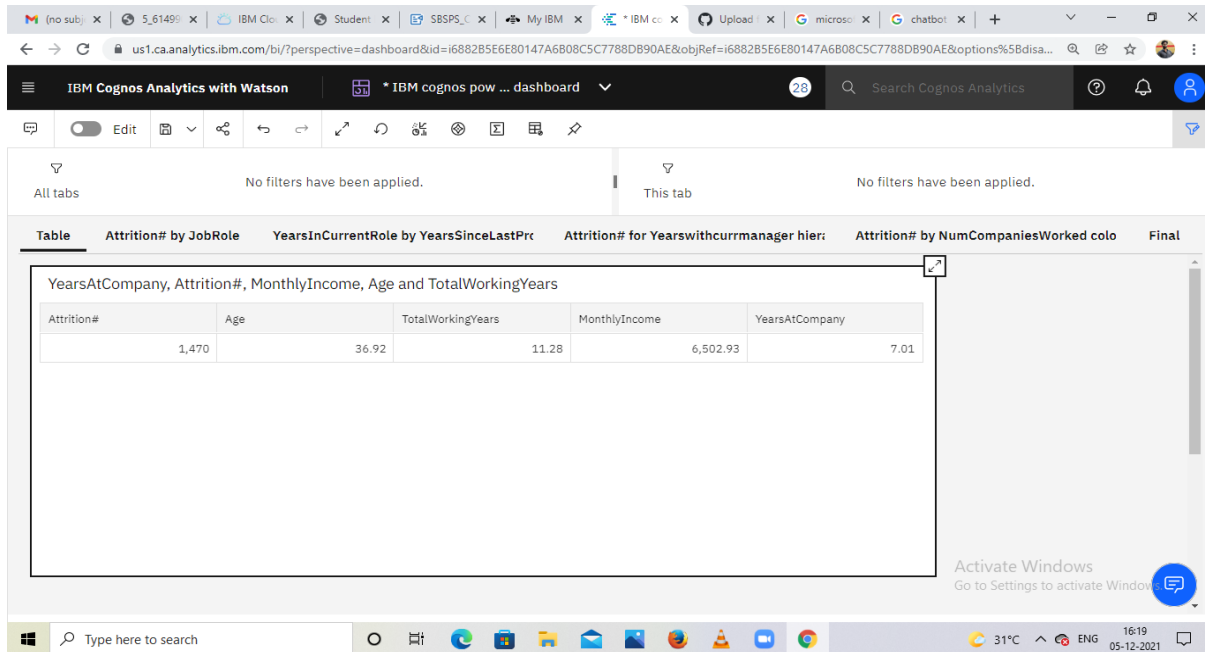


FIG 6.1 Table analyzing Age,Attrition#,YearsAtCompany,TotalworkingYears and Monthlyincome

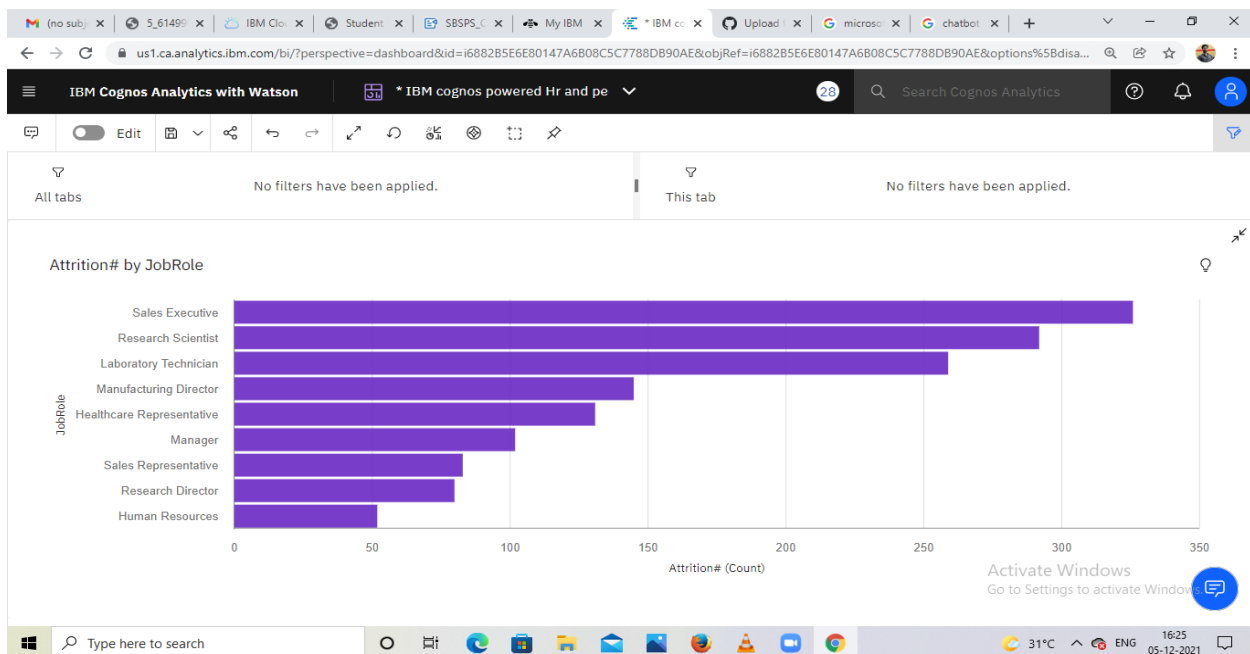


FIG 6.2 Attrition# by Job role

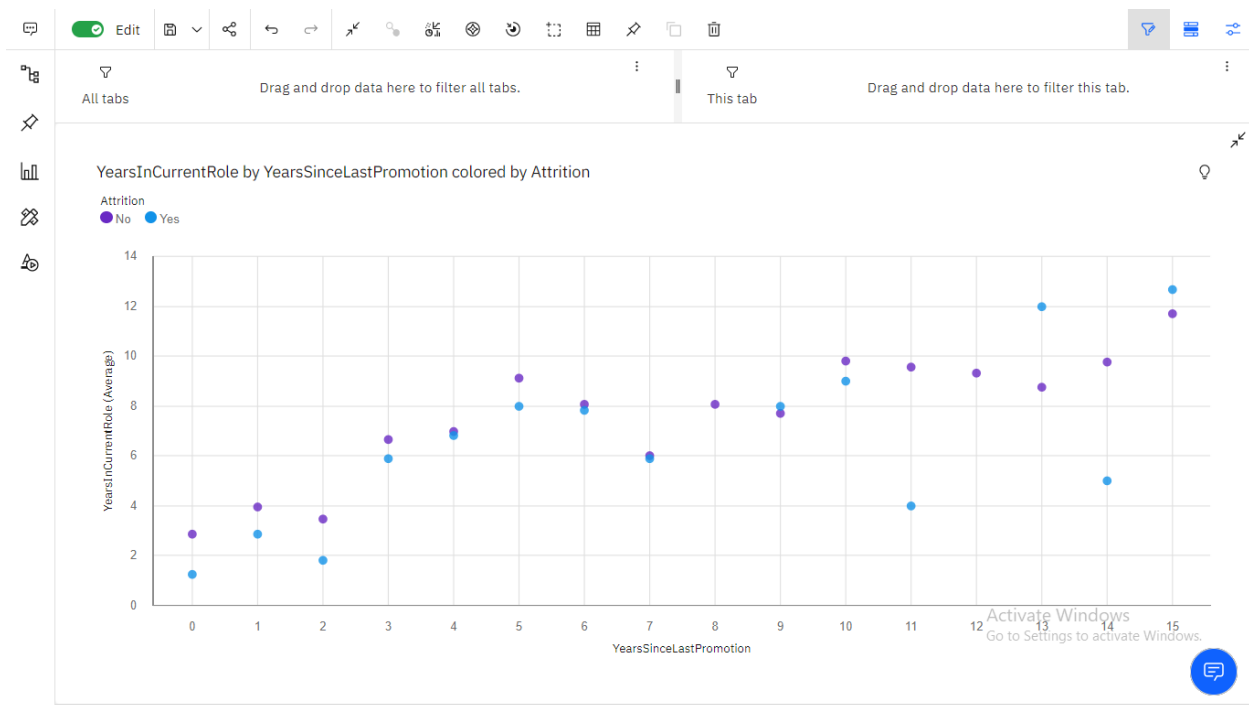


FIG 6.3 YearsincurrentRole by YearsSinceLastpromotion colored by Attrition

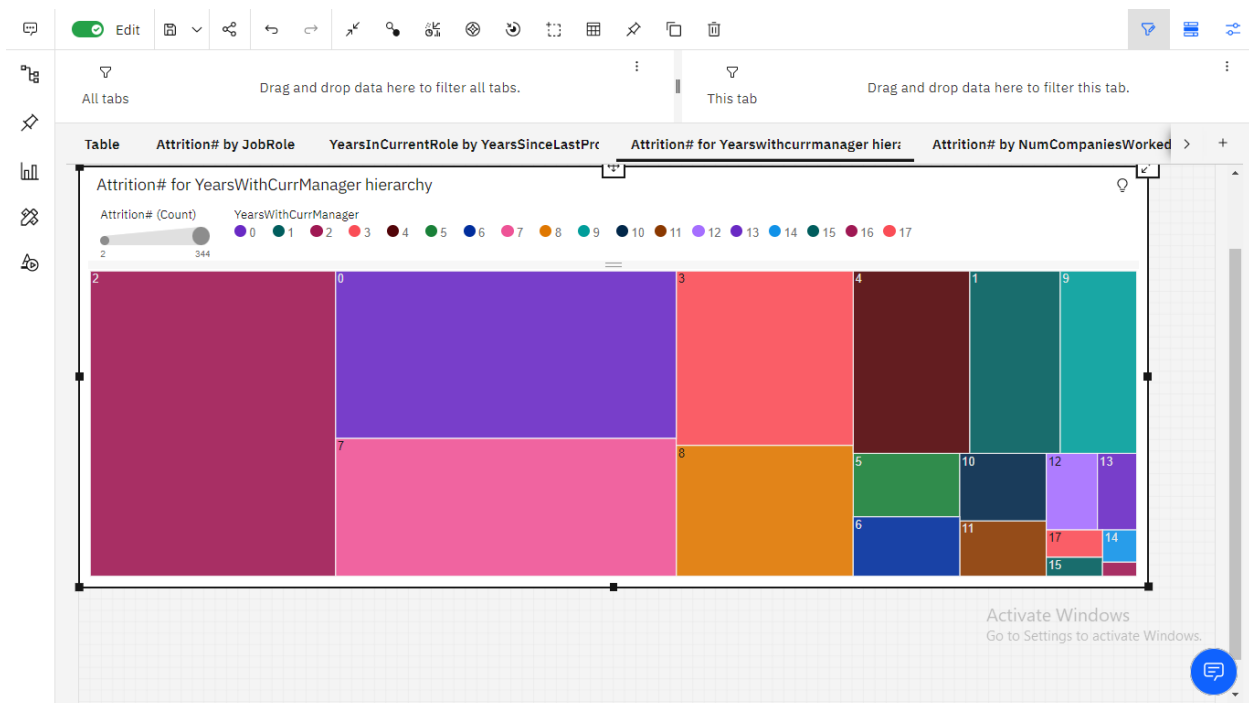
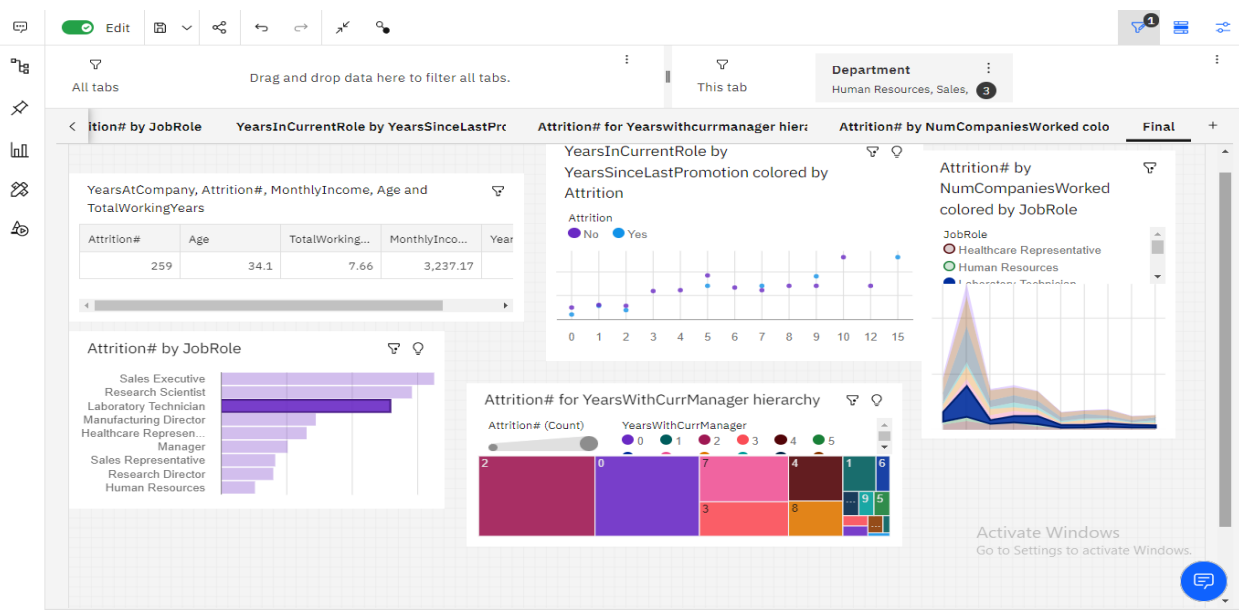
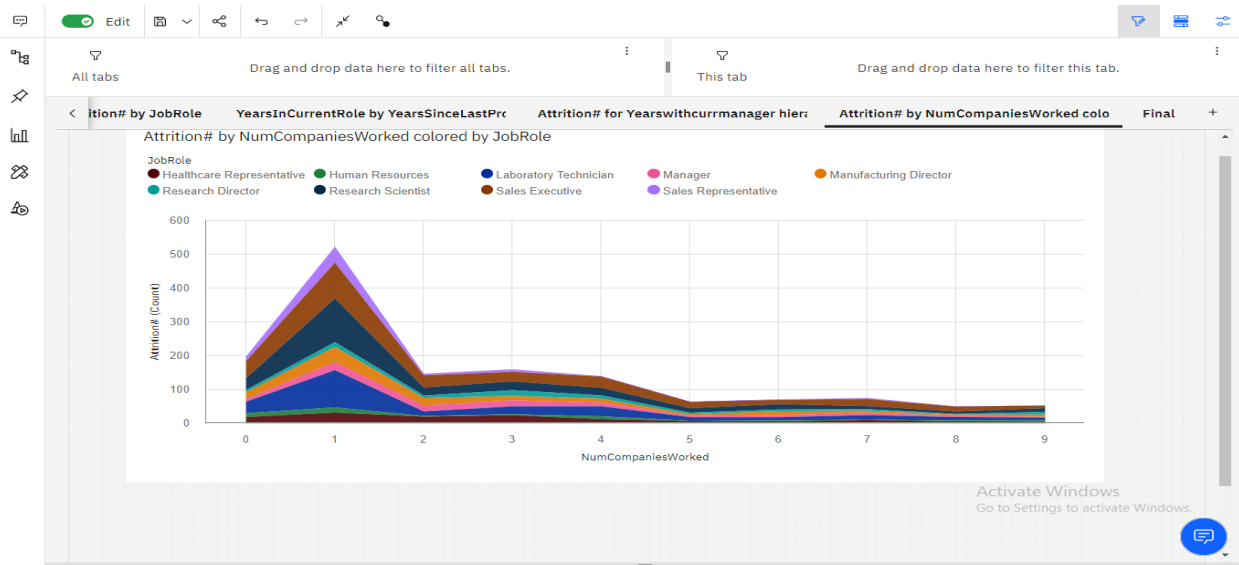


FIG 6.4 Attrition# for YearsWithCurrentmanager hierarchy



Final dashboard link for Hr analytics

https://us1.ca.analytics.ibm.com/bi/?perspective=dashboard&pathRef=.my_folders%2FIBM%2Bcognos%2Bpowered%2BHR%2Band%2Bpeople%2Banalytics%2Bdashboard&action=view&mode=dashboard&subView=model0000017d84cadedb_00000000

7.ADVANTAGES AND DISADVANTAGES

Advantages

- **Lower costs-----reduces maintenance due to complete report coverage and a zero-footprint environment.**
- **Faster results-----shortens reporting time due to seamless integration and adaptive authoring.**
- **Improved decision making-----reports and dashboards present data in easily understood formats.**
- **Adaptive authoring automatically adjusts report layout when objects are added,moved or removed.**
- **Ability to use a variety of charts----crosstabs,bar or 3D bar,pie or droughnut,line, guage,funnel, scatter,dot,density waterfall and so forth.**
- **Ability to create complex, multi-page layouts using different data sources.**
- **High performance data access across all sources.**

- Complete connectivity regardless of environment.
- Open architecture that leverages XML, SOAP and WSDL.
- Multiple export formats----Excel, portable Document format (PDF), Extensible markup Language (XML), Hypertext Markup Language (HMTL), and comma Separated value (CSV).
- Multilingual capabilities automatically deliver reports in the user's working language.

DISADVANTAGES:

- Minimal forecast content.
- Won't work smoothly with large data sets having many framework.
- cross-browser kinship is often tough.
- The user interface is slow to move from screen to screen.
- I wish there were a search function to find our data elements in the data warehouse.
- It would be helpful to have more clear error messages that you could better use to determine what needs to be changed.

8.APPLICATIONS

- 1)Create business reports
- 2)Analyze data
- 3)Monitor events and metrics
- 4)Business decisions
- 5)Web based solution

9.CONCLUSION

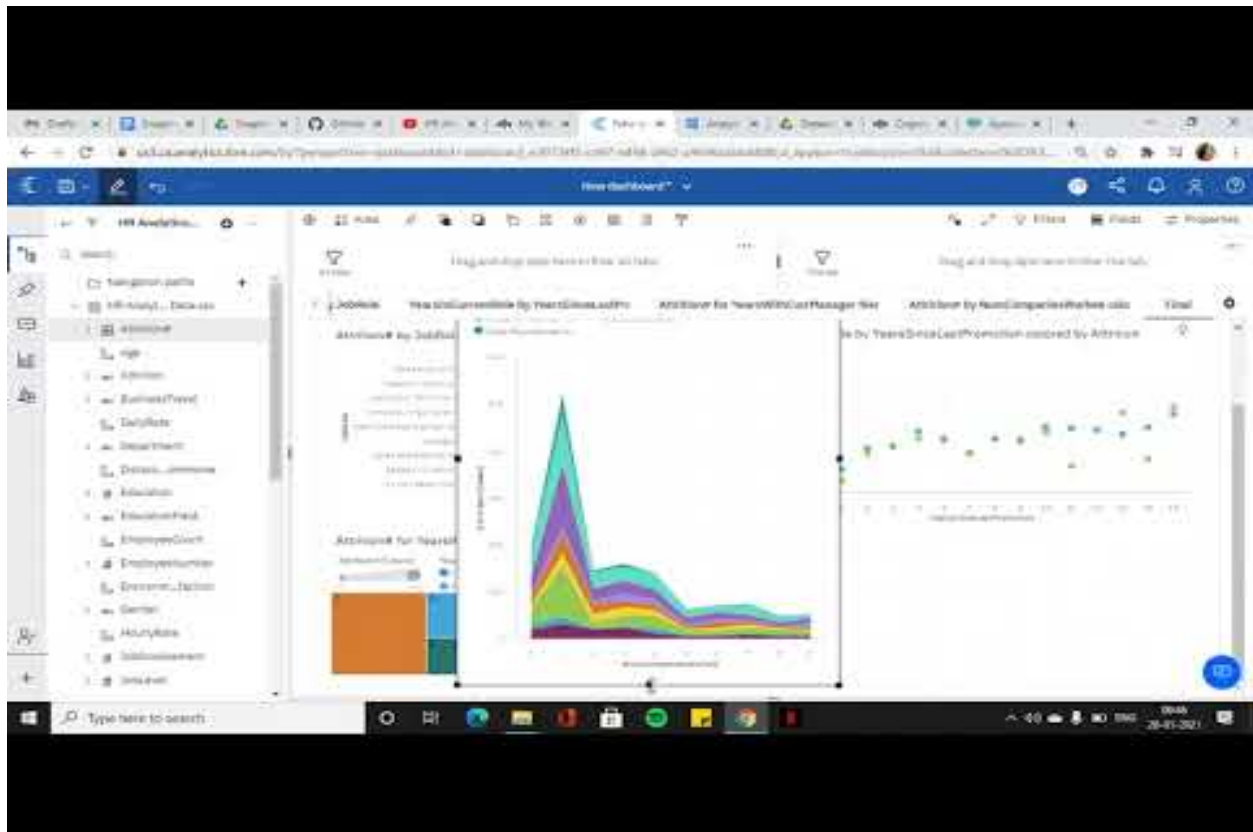
We created HR and people Analytics dashboard using IBM cognos software and with tools in the software.We observed all the required data is presented on dashboard.

10.FUTURE SCOPE

It is very useful to present and future business work and IT base.

11.BIBILOGRAPHY

- IBM cognos Business intelligence V10.1
Handbook An IBM Red books publication
Authors: Dean Browne, Brecht Desmeitjer,
Rodrigo Frealdo Dumont, Armin Kamal, John
Leahy, Scott Masson, Ksenija Rusak, Shinsuke
Yamamoto, Martin keen.
- Videos provided for project reference.



<https://youtu.be/zxyS2DnAyJ0>

