

DATA ANALYTICS ASSIGNMENT - 02

DATA ANALYTICS WITH IBM COGNOS ANALYTICS

DATE : 15 - 09 - 2023

SOFTWARE USED : IBM COGNOS ANALYTICS

SUBMITTED BY:

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CAMPUS : VIT - AP UNIVERSITY

SUBMITTED TO :

INDRA SIR (SMARTINTERNZ)



**VIT-AP
UNIVERSITY**

VIT-AP UNIVERSITY AMARAVATI

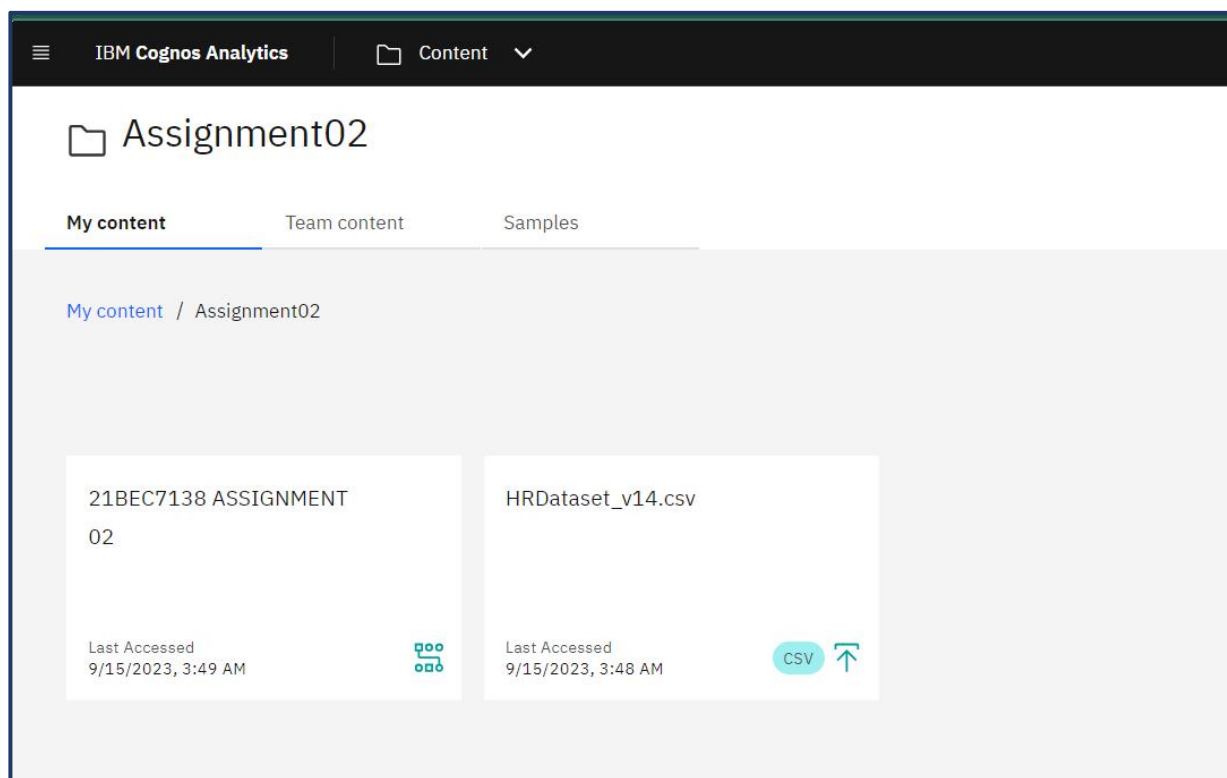
ANDHRA PRADESH, INDIA

❖ Objective:

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

➤ Uploading dataset to IBM cognos analytics:

Given dataset: [HRDataset_v14]



➤ Deleting unnecessary columns (preparing data):

As **EMP ID** column is not required, deleting that column.

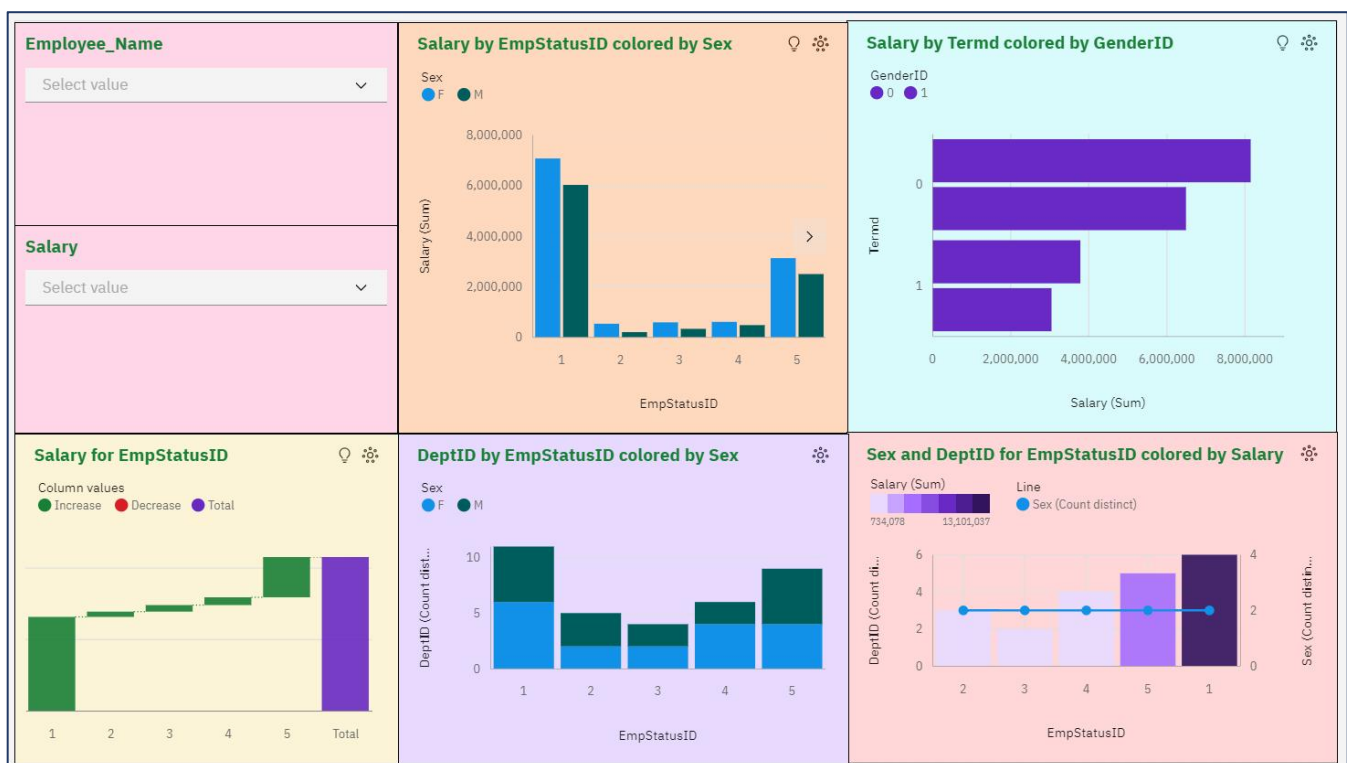
<div><div><div><div></div></div><div>Grid</div></div><div><div><div></div></div><div>Relationships</div></div><div><div><div></div></div><div>Custom tables</div></div></div>						
⬆️⬆️	Row Id	Employee_Name	EmpID	MarriedID	MaritalStatusID	GenderID
	1	Adinolfi, Wilson K	10026	0	0	1
	2	Ait Sidi, Karthikeyan	10084	1	1	1
	3	Akinkuolie, Sarah	10196	1	1	0
	4	Alagbe,Trina	10088	1	1	0
	5	Anderson, Carol	10069	0	2	0
	6	Anderson, Linda	10002	0	0	0
	7	Andreola, Colby	10194	0	0	0
	8	Athwal, Sam	10062	0	4	1
	9	Bachiochi, Linda	10114	0	0	0
	10	Bacong, Alejandro	10250	0	2	1
	11	Baczinski, Rachael	10252	1	1	0
	12	Barbara, Thomas	10242	1	1	1
	13	Barbossa, Hector	10012	0	2	1
	14	Barone, Francesco A	10265	0	0	1

↑↓	Row Id	Employee_Name	MarriedID	MaritalStatusID	GenderID	EmpStatusID
	1	Adinolfi, Wilson K	0	0	1	1
	2	Ait Sidi, Karthikeyan	1	1	1	5
	3	Akinkuolie, Sarah	1	1	0	5
	4	Alagbe,Trina	1	1	0	1
	5	Anderson, Carol	0	2	0	5
	6	Anderson, Linda	0	0	0	1
	7	Andreola, Colby	0	0	0	1
	8	Athwal, Sam	0	4	1	1
	9	Bachiochi, Linda	0	0	0	3
	10	Bacong, Alejandro	0	2	1	1
	11	Baczinski, Rachael	1	1	0	5
	12	Barbara, Thomas	1	1	1	5
	13	Barbossa, Hector	0	2	1	1
	14	Barone, Francesco A	0	0	1	1

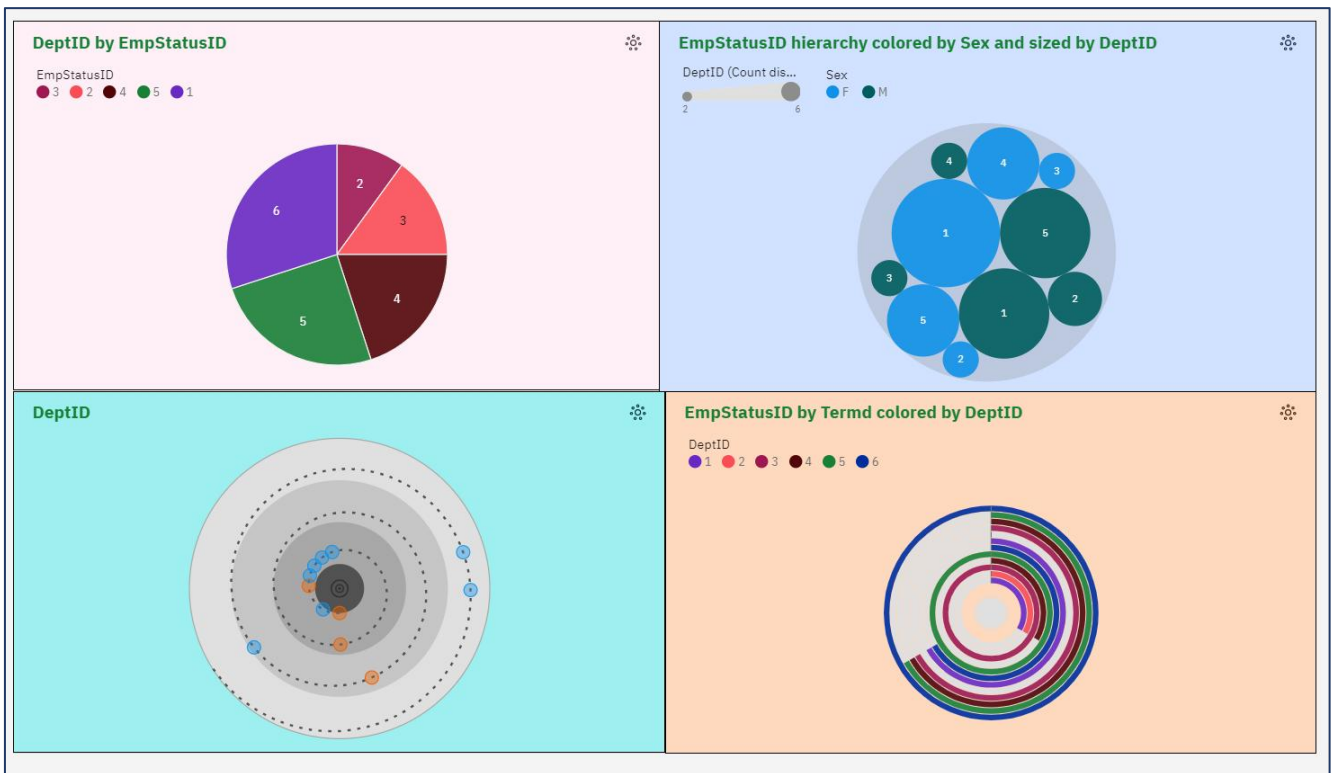
➤ Exploring and Creating Interactive Dashboard, Report and Story:

➤ Dashboards:

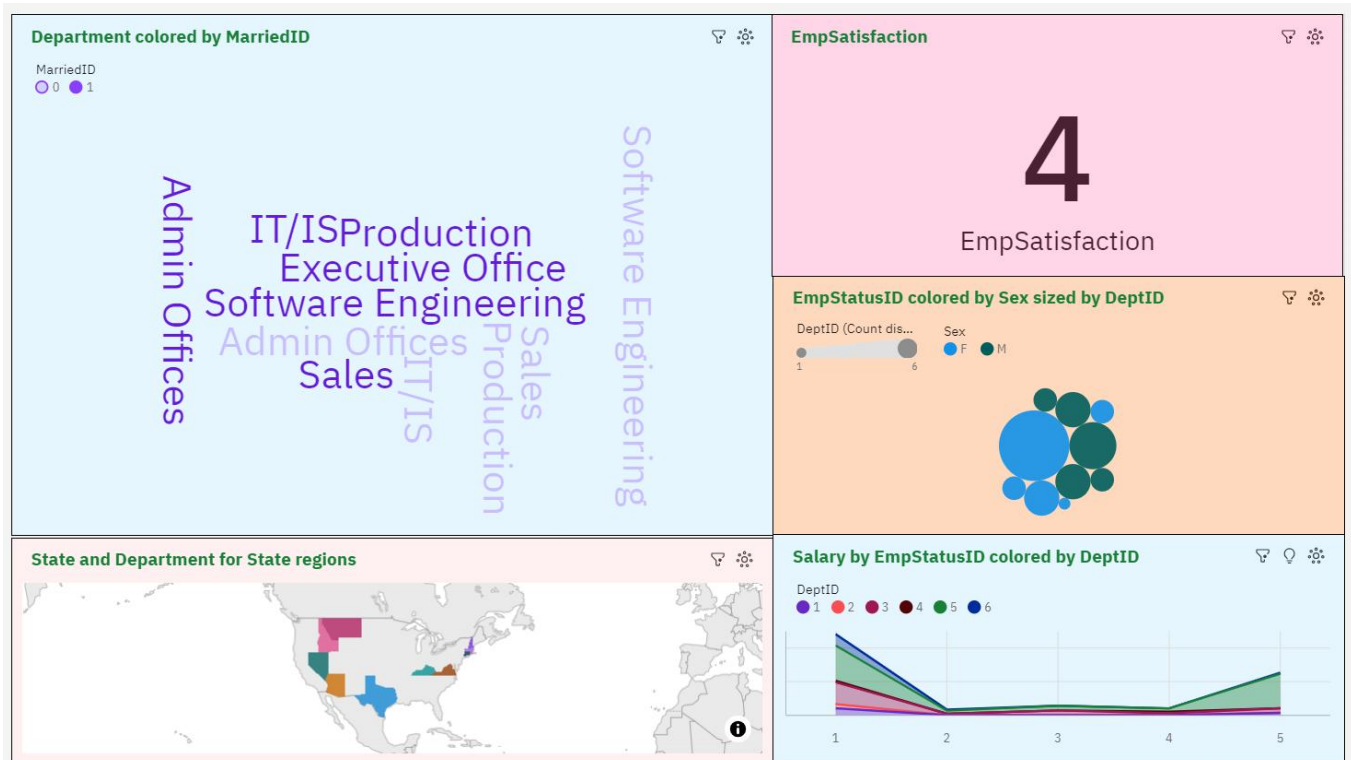
➤ 1)All boxed visualizations:



➤ 2)All circular visualizations:

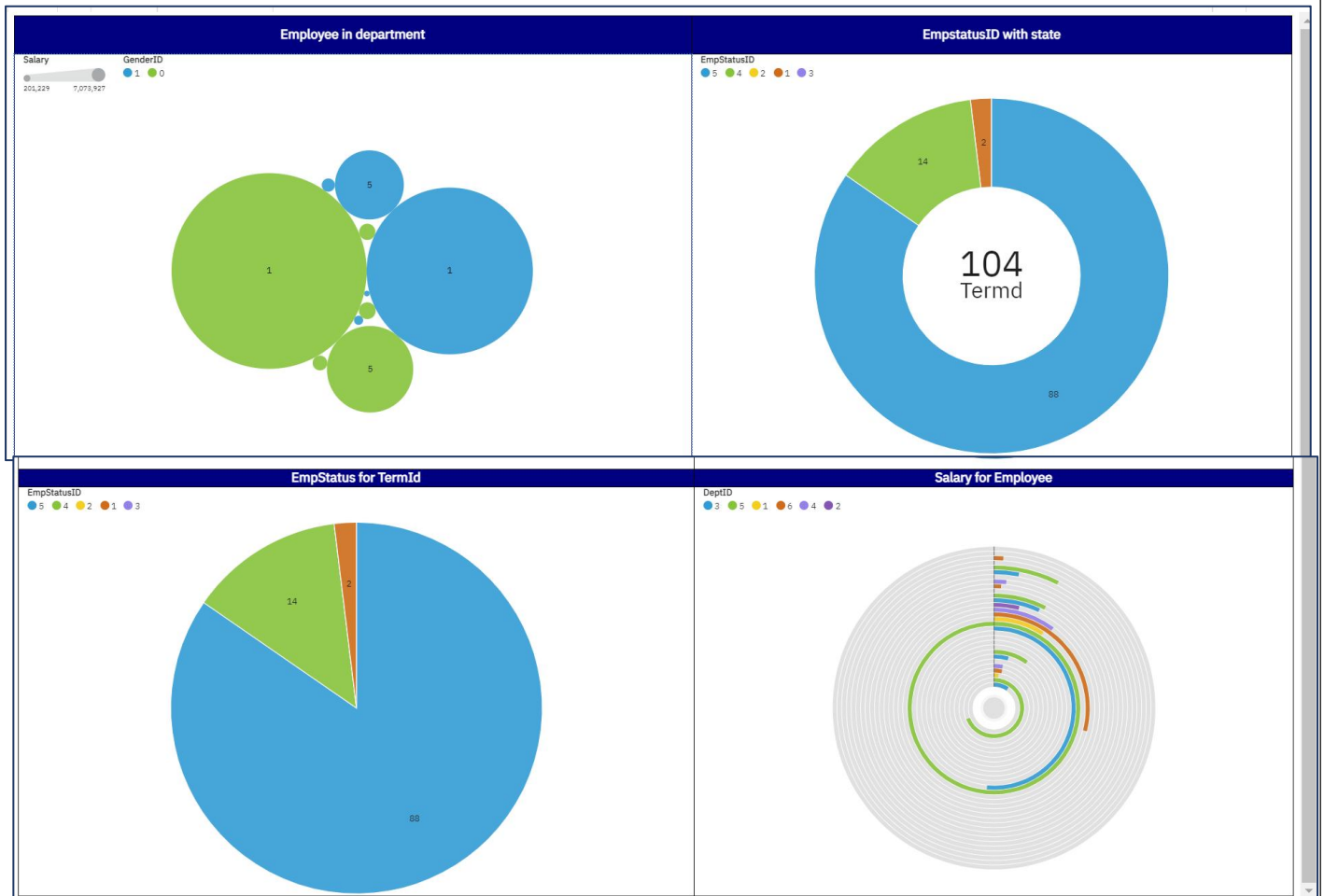


➤ 3)No shaped visualizations:

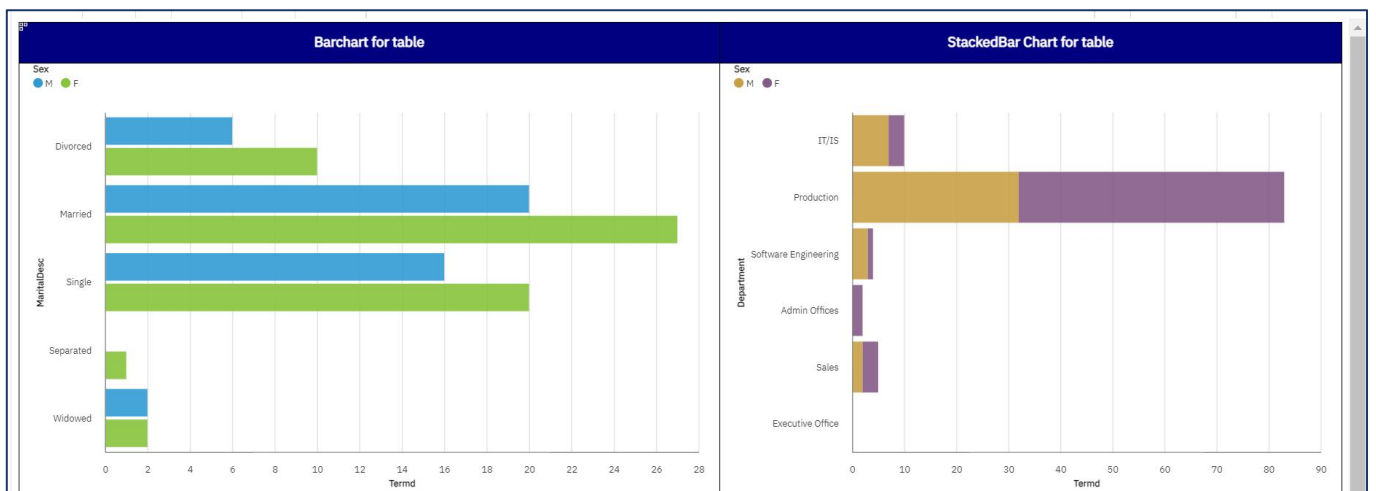


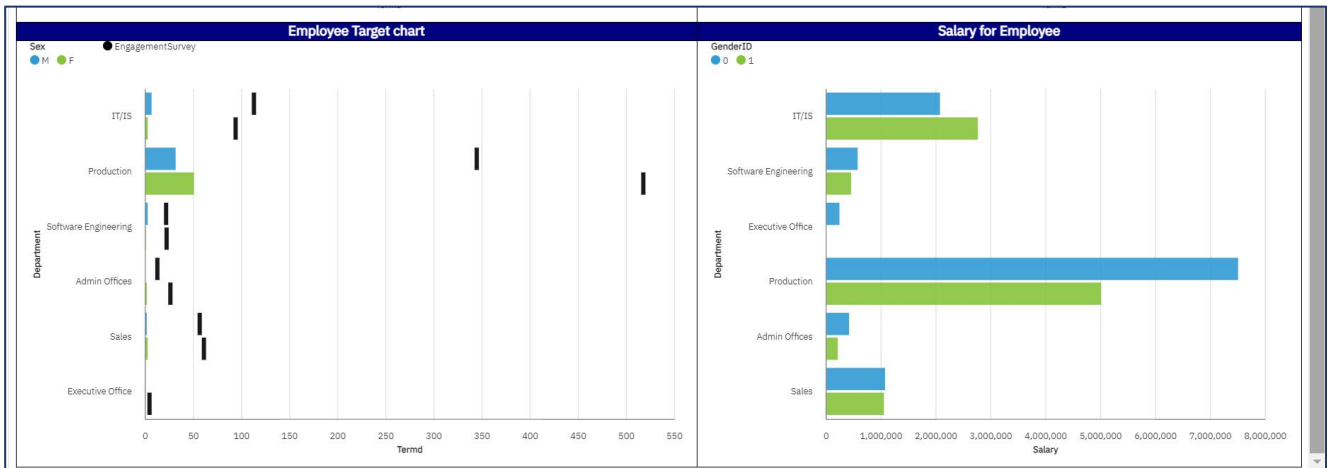
➤ Reports:

➤ 1)All circular visualizations:

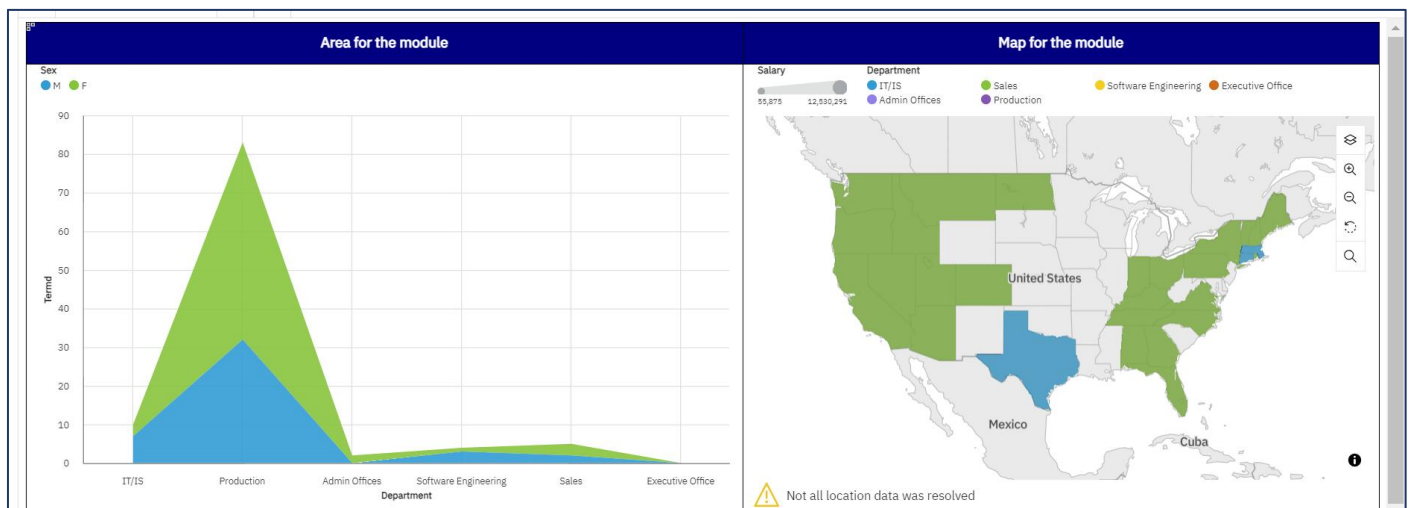


➤ 2)All boxed visualizations:



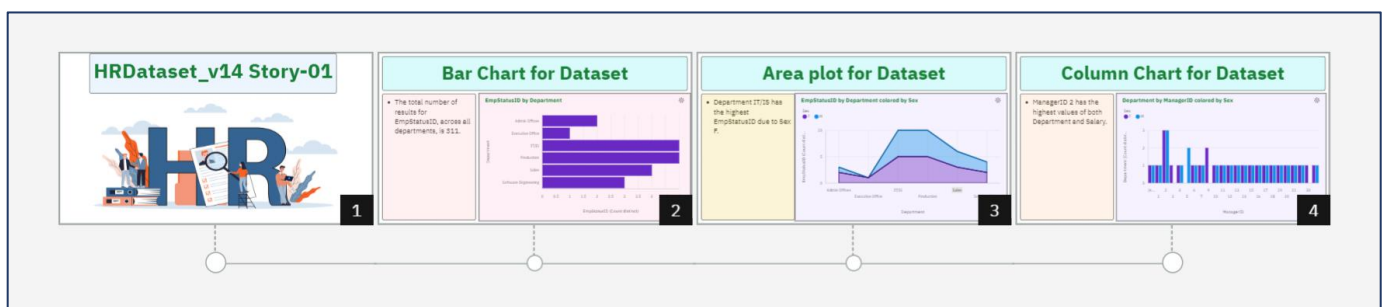


➤ 3)No shape visualizations:



➤ Stories:

➤ Story 1:



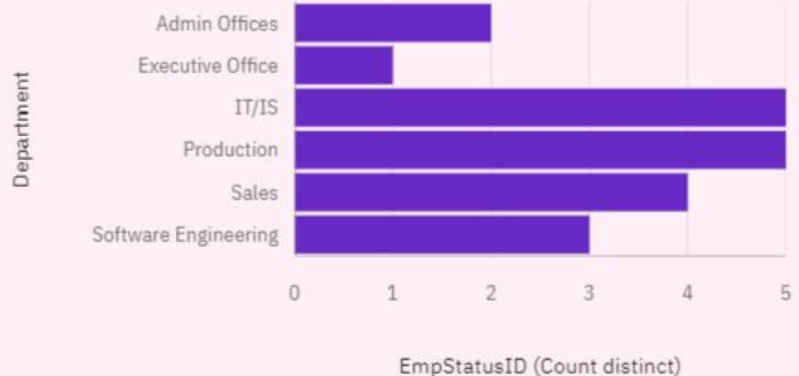
HRDataset_v14 Story-01



Bar Chart for Dataset

- The total number of results for EmpStatusID, across all departments, is 311.

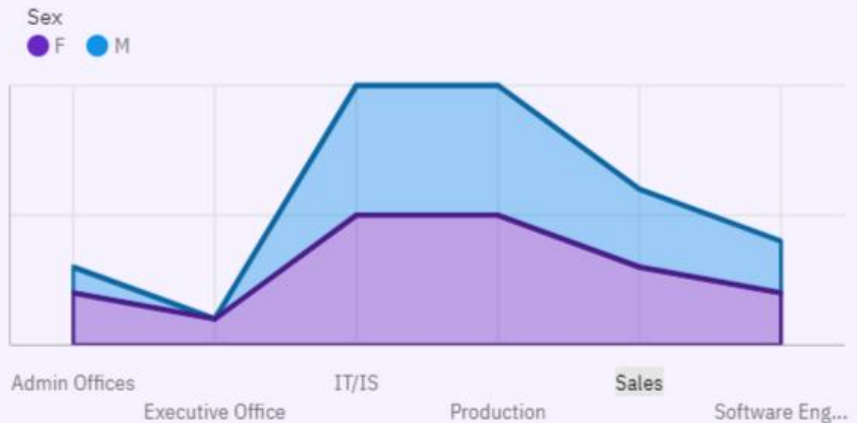
EmpStatusID by Department



Area plot for Dataset

- Department IT/IS has the highest EmpStatusID due to Sex F.

EmpStatusID by Department colored by Sex



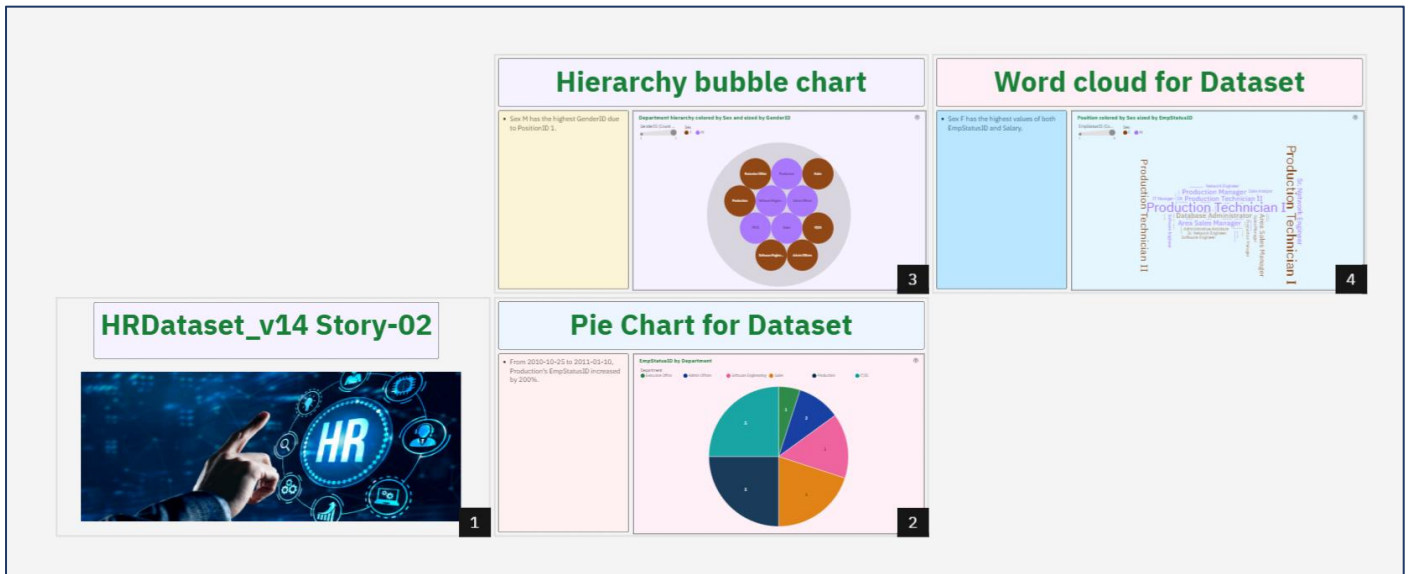
Column Chart for Dataset

- ManagerID 2 has the highest values of both Department and Salary.

Department by ManagerID colored by Sex



➤ Story 2:



HRDataset_v14 Story-02



Pie Chart for Dataset

- From 2010-10-25 to 2011-01-10, Production's EmpStatusID increased by 200%.

EmpStatusID by Department

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



Hierarchy bubble chart

- Sex M has the highest GenderID due to PositionID 1.

Department hierarchy colored by Sex and sized by GenderID

GenderID (Count ...
 1 1
 Sex
 ● F ● M



Word cloud for Dataset

- Sex F has the highest values of both EmpStatusID and Salary.

Position colored by Sex sized by EmpStatusID

