

## PROJECT DEVELOPMENT PHASE

### Sprint 1

Team ID	PNT2022TMID21499
Project Name	Analytics for Hospitals' Health-Care Data

## IBM Cognos Analytics Dashboard

IBM Cognos Analytics with Watson

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## Data Preparation

Select sources

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- sample\_sub.csv  
13/11/2022, 7:26 AM
- test\_data.csv  
13/11/2022, 7:27 AM
- train\_data\_dictionary.csv  
13/11/2022, 7:28 AM
- train\_data.csv  
13/11/2022, 7:24 AM

**Filter by**  
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Type

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Modified

- ☒ All
- ☐ Today
- ☐ Yesterday
- ☐ Past week
- ☐ Past month

Row Id	Column	Description
1	case_id	Case_ID registered in Hospital
2	Hospital_code	Unique code for the Hospital
3	Hospital_type_code	Unique code for the type of Hospital
4	City_Code_Hospital	City Code of the Hospital
5	Hospital_region_code	Region Code of the Hospital
6	Available Extra Rooms in Hospital	Number of Extra rooms available in the Hospital
7	Department	Department overlooking the case
8	Ward_Type	Code for the Ward type
9	Ward_Facility_Code	Code for the Ward Facility

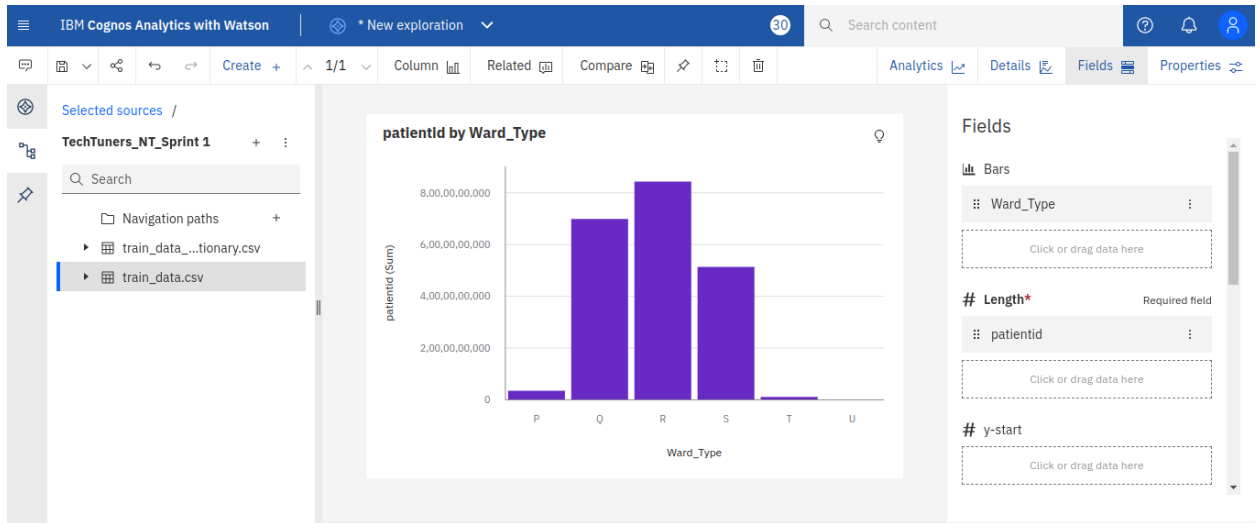
Row Id	case_id	Hospital_code	Hospital_type_code	City_Code_Hospital	Hospital_region_code
1	1	8	c	3	Z
2	2	2	c	5	Z
3	3	10	e	1	X
4	4	26	b	2	Y
5	5	26	b	2	Y
6	6	23	a	6	X
7	7	32	f	9	Y
8	8	23	a	6	X
9	9	1	d	10	Y

## Data Cleaning and Transformation

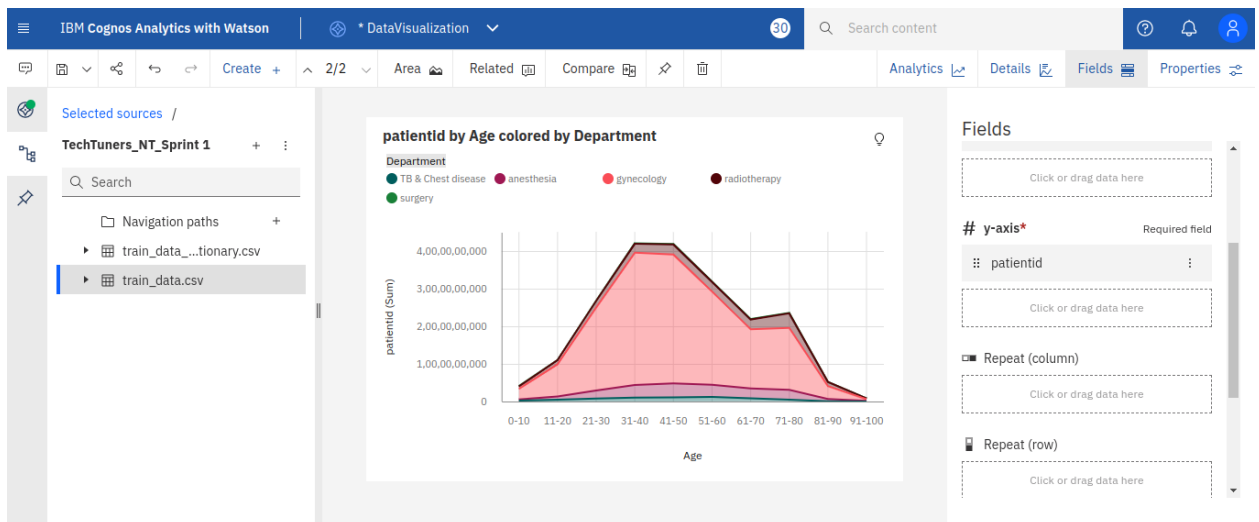
<https://colab.research.google.com/drive/1IKu-bhlYWm1Q0Xhfl8vaQMqr60WhDD67?usp=sharing>

## Data Visualization

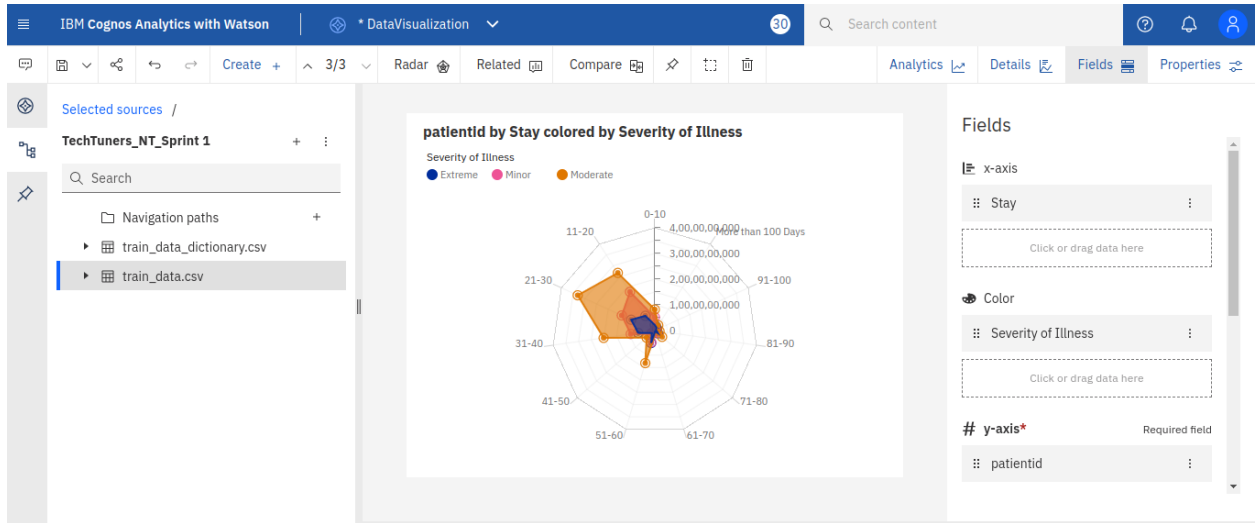
- No of Patients in Each Ward



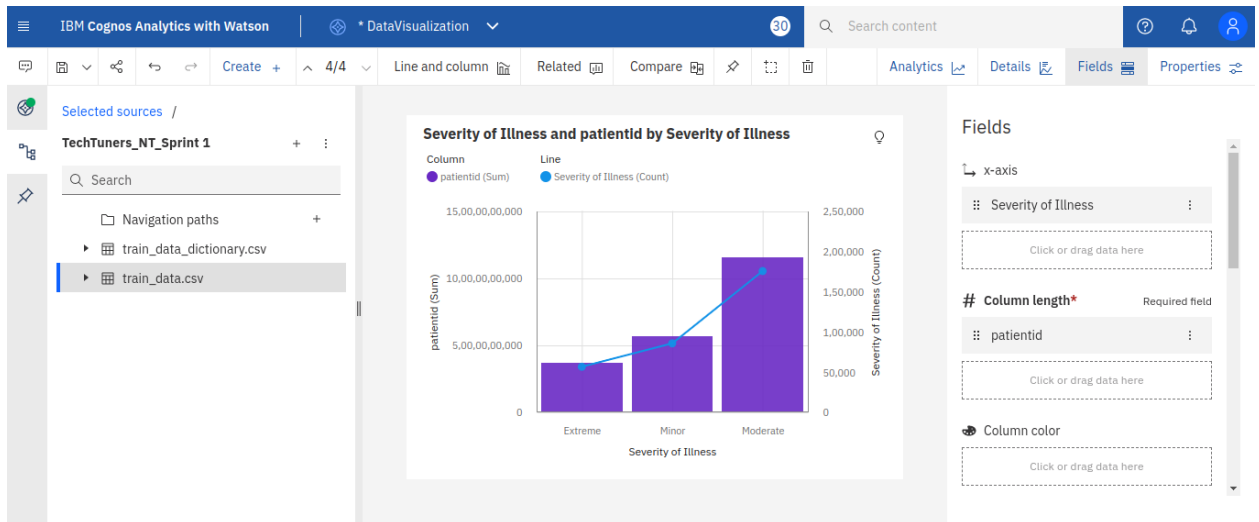
- No of patients by age colored by department



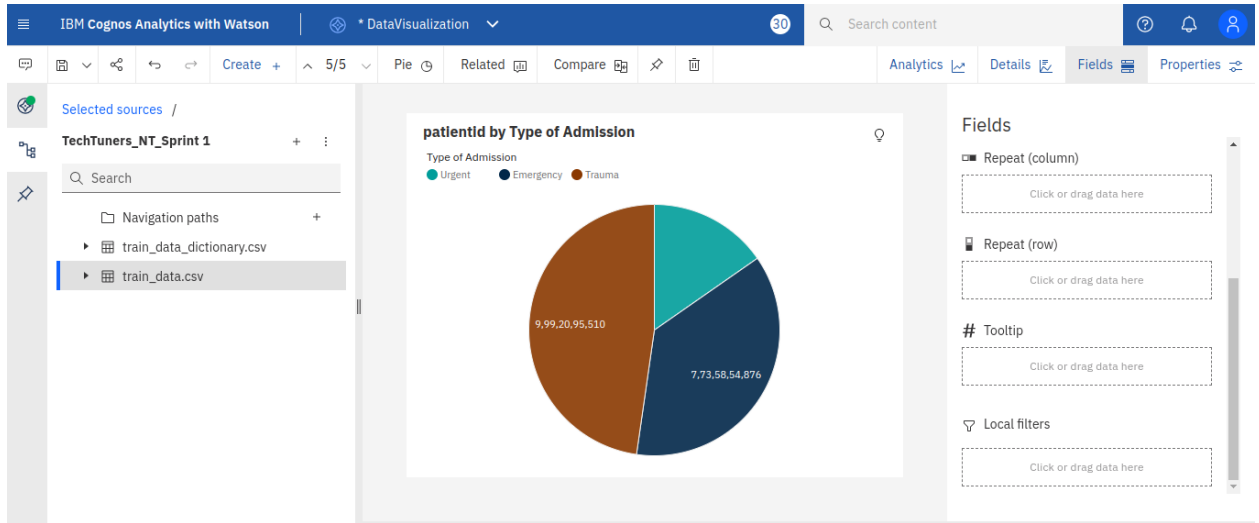
- **No of patients by no of days in stay colored by severity of Illness**



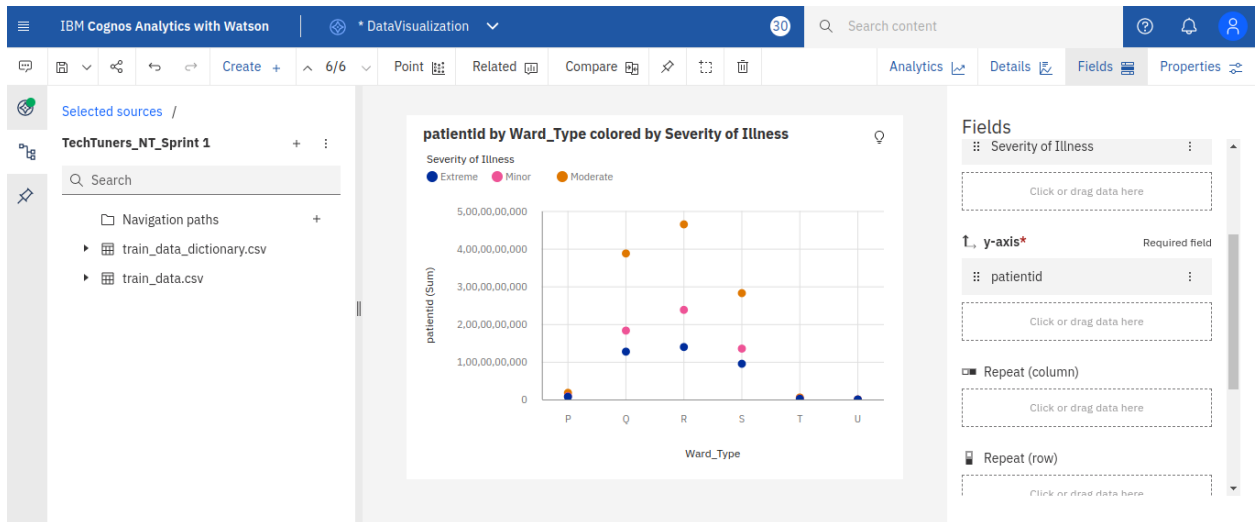
- **No of patients by severity of disease**



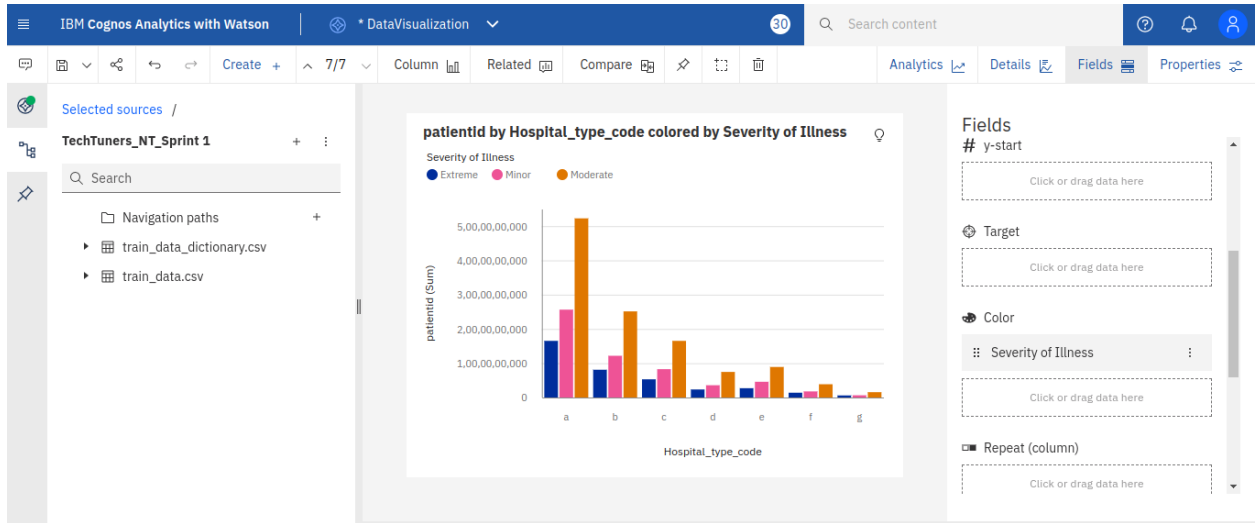
- No of patients and type of admission



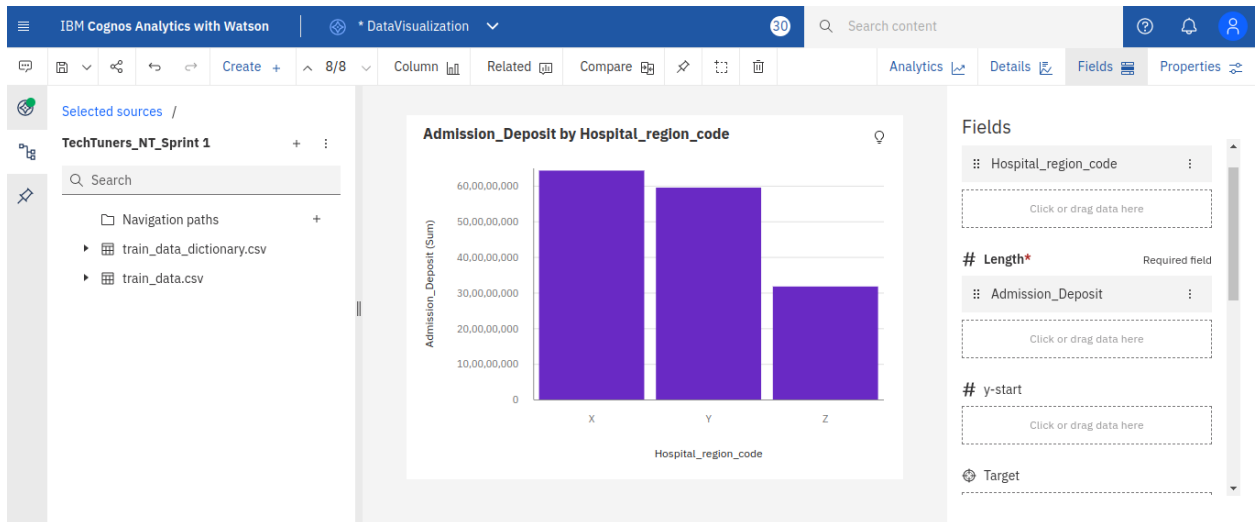
- No of patients by ward type colored by severity of illness



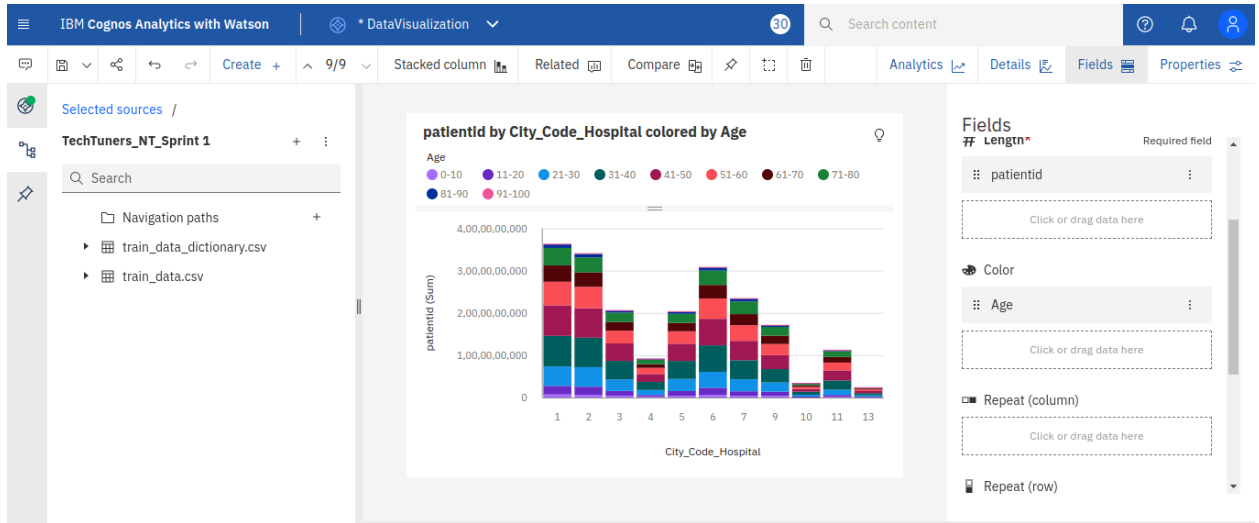
- **No of patients in a hospital type colored by Severity of Illness**



- **Admission Deposit by Hospital region code**



- No of patients by city code hospital colored by age



- Table for age and no of patients in each age category

The dashboard shows a table titled "Age and Hospital\_region\_code". The table has two columns: Hospital\_region\_code and Age. The Age column lists age groups from 0-10 to 91-100. The table is currently empty, with a large "X" visible in the data area.

Hospital_region_code	Age
	0-10
	11-20
	21-30
	31-40
	41-50
	51-60
	61-70
	71-80
	81-90
	91-100