

# Project Development Phase

## Delivery of Sprint-1

Date	10 NOV 2022
Team ID	PNT2022TMID07021
Project Name	Analytics for Hospital's Health-care Data

## DATASET

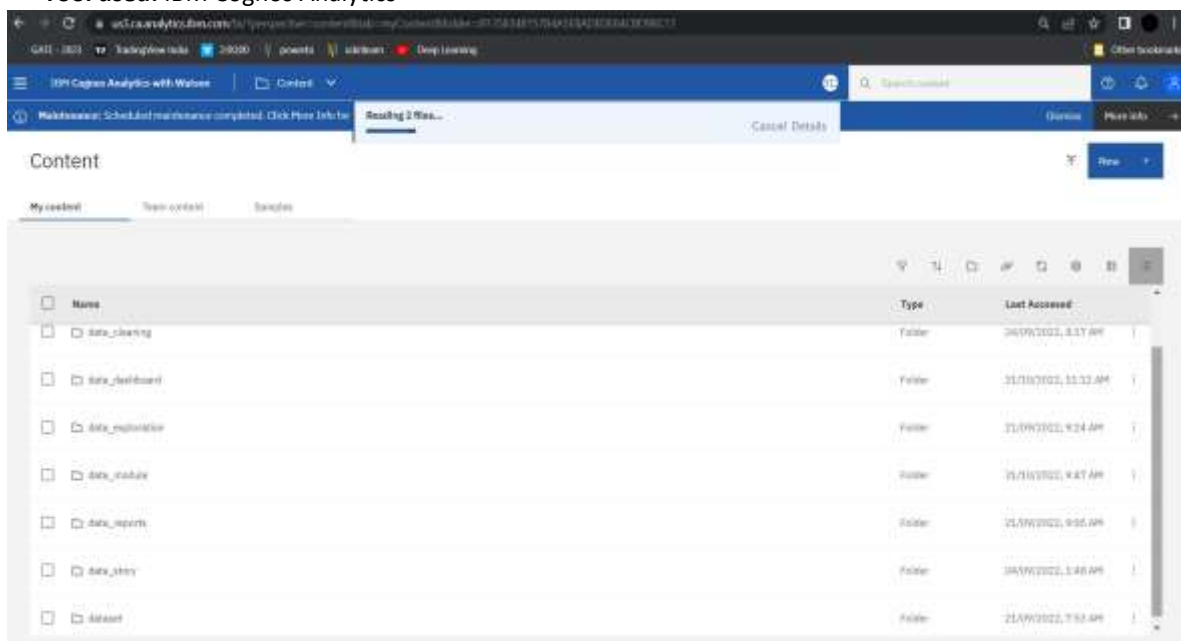
**Data Collection:** Download the Dataset

**Dataset link :**

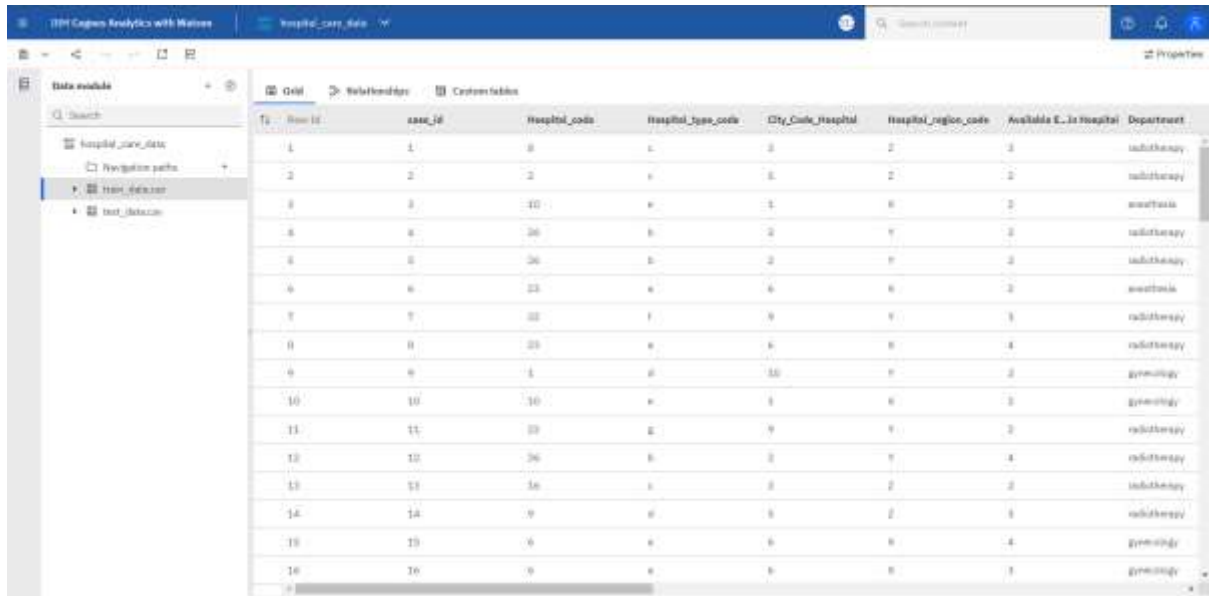
[https://drive.google.com/drive/folders/1qozDgfVw04hGS8Di\\_SFhUNdUKUdjkhRT?usp=sharing](https://drive.google.com/drive/folders/1qozDgfVw04hGS8Di_SFhUNdUKUdjkhRT?usp=sharing)

**Load the Dataset:**

**Tool used:** IBM Cognos Analytics



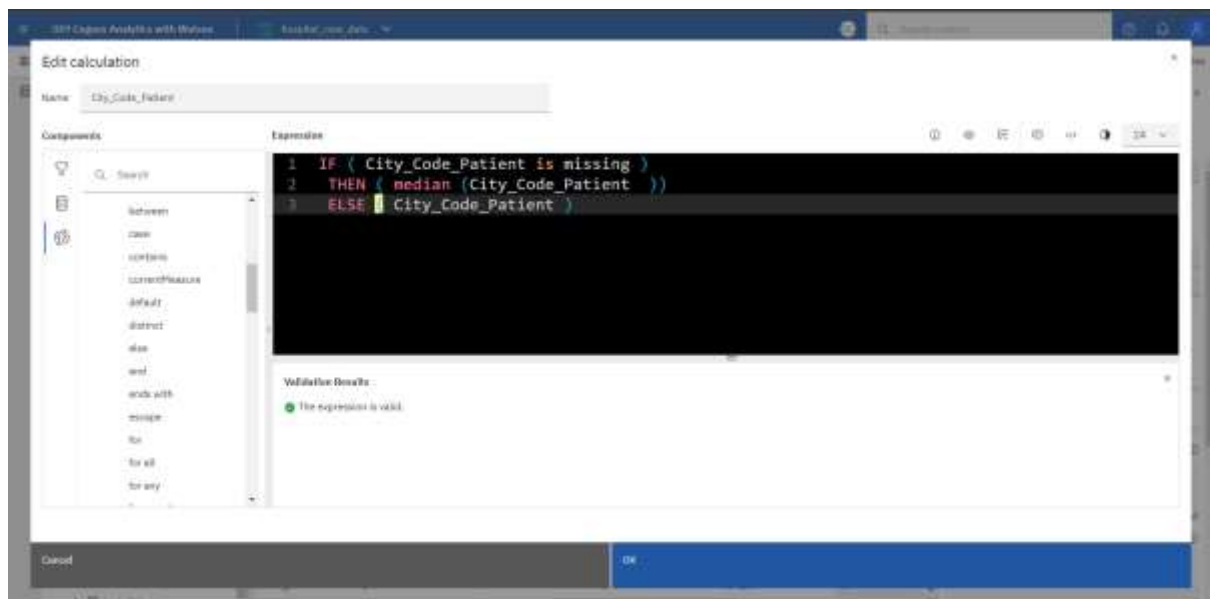
## Data Preparation :

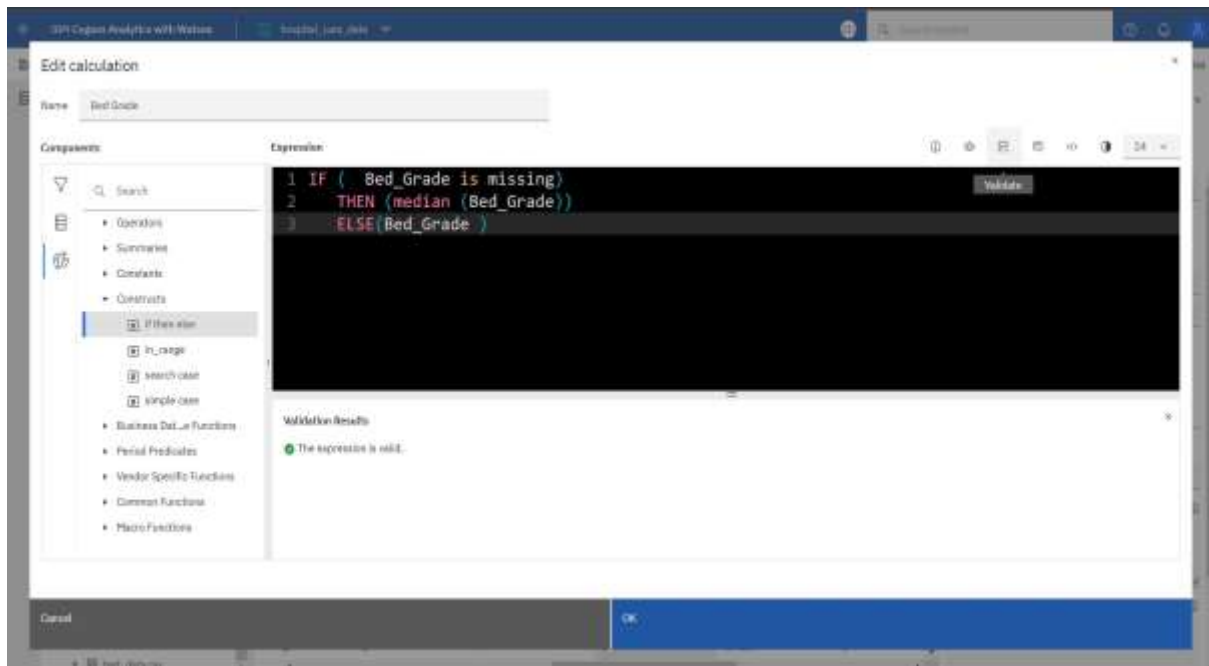


The screenshot displays the IBM Cognos Analytics interface. On the left, a 'Data module' pane shows a tree structure with 'hospital\_data' selected. The main area shows a table with the following columns: 'row\_id', 'asset\_id', 'hospital\_code', 'hospital\_type\_code', 'City\_Code\_hospital', 'hospital\_region\_code', 'Available E. in hospital', and 'Department'. The table contains 16 rows of data.

row_id	asset_id	hospital_code	hospital_type_code	City_Code_hospital	hospital_region_code	Available E. in hospital	Department
1	1	8	C	3	2	3	radiotherapy
2	2	2	F	5	2	2	radiotherapy
3	3	10	F	1	6	2	oncology
4	4	36	B	2	Y	2	radiotherapy
5	5	36	B	2	F	2	radiotherapy
6	6	23	F	6	6	2	oncology
7	7	32	F	9	F	1	radiotherapy
8	8	35	F	6	6	4	radiotherapy
9	9	1	B	10	F	2	gynecology
10	10	10	F	1	6	2	gynecology
11	11	39	B	9	F	2	radiotherapy
12	12	36	B	2	Y	4	radiotherapy
13	13	36	B	2	2	2	radiotherapy
14	14	9	F	1	2	1	radiotherapy
15	15	6	F	6	6	4	gynecology
16	16	9	F	6	6	1	gynecology

## Null Values cleaning Process :





Qlik Sense Analytics with Watson | hospital\_data | Search | Properties

Data module | Search | **Grid** | Relationship | Custom tables

	Ts	ref	Word_Type	Word_Facility_Code	Bed_Grade	potential	City_Code_Patient	Type of Admission	Severity of Disease	VS
	NOV	5	E	F	2	11387	T	Emergency	Extreme	
	NOV	5	E	F	2	11387	T	Trauma	Extreme	
	9	2	E	E	2	11387	T	Trauma	Extreme	
	NOV	8	E	E	2	11387	T	Trauma	Extreme	
	NOV	9	E	E	2	11387	T	Trauma	Extreme	
	9	6	F	F	2	11387	T	Trauma	Extreme	
	NOV	2	E	E	2	11387	T	Emergency	Extreme	
	NOV	Q	F	F	2	11387	T	Trauma	Extreme	
	21	8	E	E	4	11387	T	Trauma	Extreme	
	21	2	E	E	2	11387	T	Trauma	Extreme	
	NOV	5	E	E	2	11387	T	Urgent	Extreme	
	NOV	9	E	E	1	11387	T	Urgent	Extreme	
	NOV	8		A	2	11387	T	Emergency	Extreme	
	NOV	2	F	F	2	11387	T	Urgent	Extreme	
	21	Q	F	F	2	61433	E	Emergency	Extreme	
	21	Q	F	F	2	61433	E	Emergency	Extreme	
	+									

Left sidebar (Data module):

- main\_data.csv
  - Age
  - case\_id
  - Hospital\_code
  - Hospital\_de\_code
  - City\_Code\_Hospital
  - Hospital\_Son\_code
  - Available\_Hospital
  - Department
  - Word\_Type
  - Word\_Fa\_City\_Code
  - Bed\_Grade
  - potential
  - City\_Code\_Patient**
  - Type of Admission
  - Severity of Disease
  - Visitors\_In\_Patient
  - Age
  - Address\_Deposit
  - Stop
- test\_data.csv

## Hospital data:

IBM Cognos Analytics with Watson | Hospital\_data | Search: hospital\_data | Properties

Data model: Search: hospital\_data

Relationships: Custom tables

TL	Row ID	ssn_id	Hospital_code	Hospital_type_code	City_Code_Hospital	Hospital_region_code	Available_E...in Hospital	Department
1	1	1	8	1	3	2	3	radiotherapy
2	2	2	7	1	5	2	2	radiotherapy
3	3	3	10	1	5	1	2	radiotherapy
4	4	4	26	1	3	1	2	radiotherapy
5	5	5	34	1	3	1	2	radiotherapy
6	6	6	23	1	6	1	2	radiotherapy
7	7	7	12	1	9	1	1	radiotherapy
8	8	8	23	1	9	1	1	radiotherapy
9	9	9	3	1	10	1	2	radiotherapy
10	10	10	10	1	5	1	2	radiotherapy
11	11	11	13	1	9	1	2	radiotherapy
12	12	12	26	1	3	1	1	radiotherapy
13	13	13	16	1	3	1	2	radiotherapy
14	14	14	4	1	5	1	2	radiotherapy
15	15	15	4	1	6	1	1	radiotherapy
16	16	16	6	1	6	1	2	radiotherapy

IBM Cognos Analytics with Watson | Hospital\_data | Search: hospital\_data | Properties

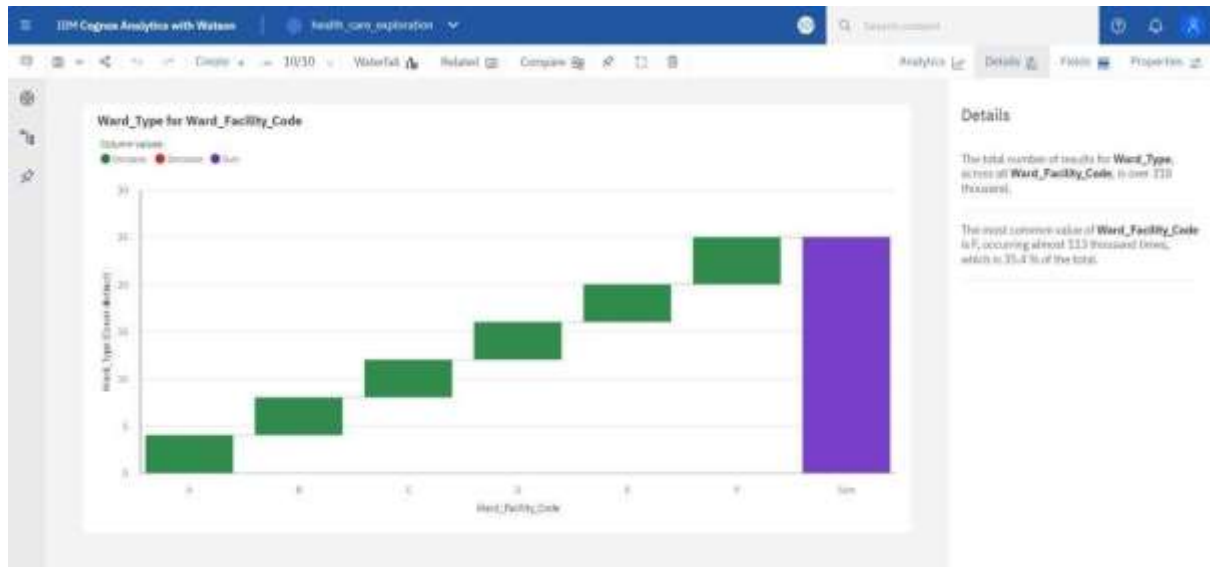
Data model: Search: hospital\_data

Relationships: Custom tables

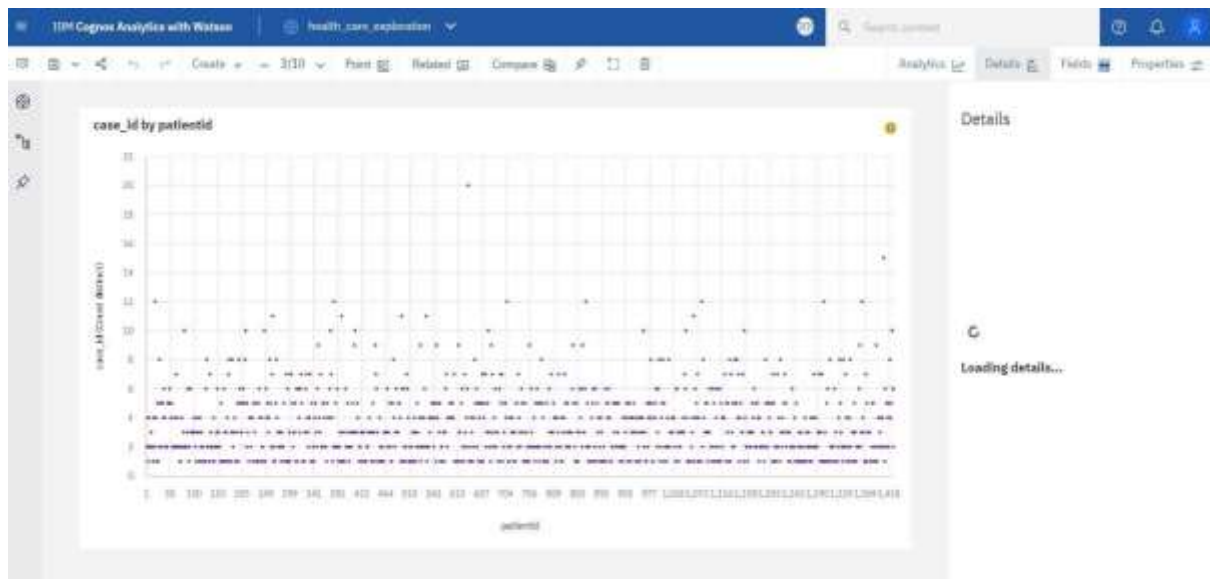
TL	Grade	patientid	City_Code_Patient	Type of Admission	Severity of Illness	Visitors with Patient	Age	Admission_Deposit	Stay
1	1	11347	1	Emergency	Extreme	2	31-40	5911	0-10
2	1	11347	1	Trauma	Extreme	2	31-40	5964	45-50
3	1	11347	1	Trauma	Extreme	2	31-40	4745	31-40
4	1	11347	1	Trauma	Extreme	2	31-40	1213	41-50
5	1	11347	1	Trauma	Extreme	2	31-40	5558	45-50
6	1	11347	1	Trauma	Extreme	2	51-60	4448	35-39
7	1	11347	1	Emergency	Extreme	2	31-40	6367	0-10
8	1	11347	1	Trauma	Extreme	2	31-40	3815	45-50
9	1	11347	1	Trauma	Extreme	2	31-40	7323	31-40
10	1	11347	1	Trauma	Extreme	2	31-40	6056	31-40
11	1	11347	1	Urgent	Extreme	2	31-40	5197	25-30
12	1	11347	1	Urgent	Extreme	2	31-40	5993	31-39
13	1	11347	1	Emergency	Extreme	2	31-40	5141	0-10
14	1	11347	1	Urgent	Extreme	2	31-40	1477	25-30
15	1	61423	1	Emergency	Extreme	2	71-80	2085	0-10
16	1	61423	1	Emergency	Extreme	2	71-80	6748	0-10

## DATA EXPLORATION :

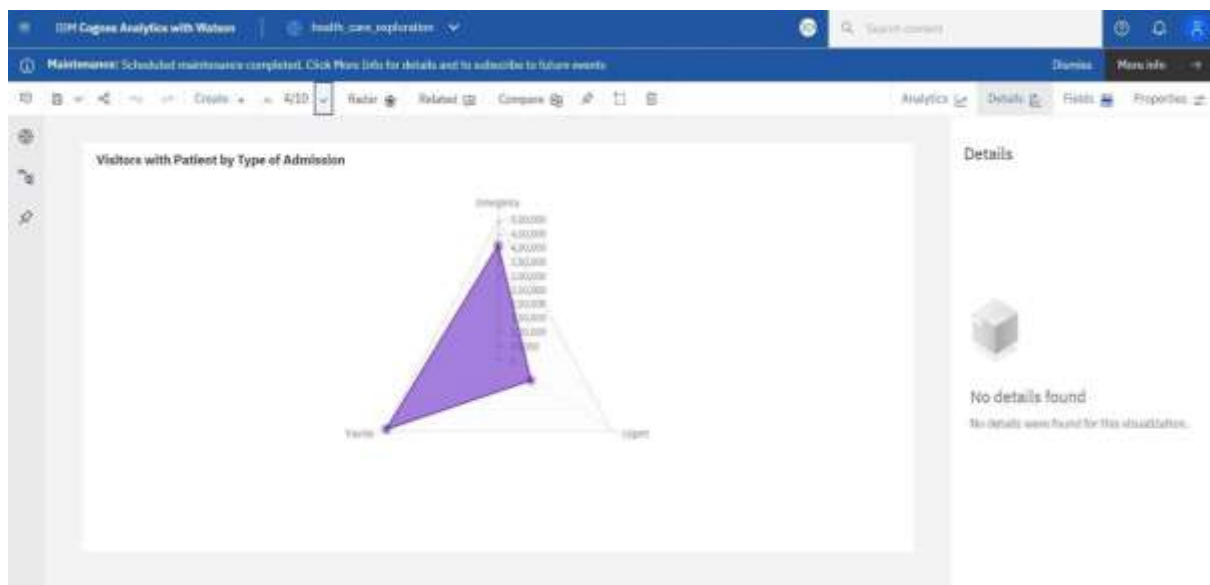
1. Ward\_Type for Ward\_Facility\_Code:



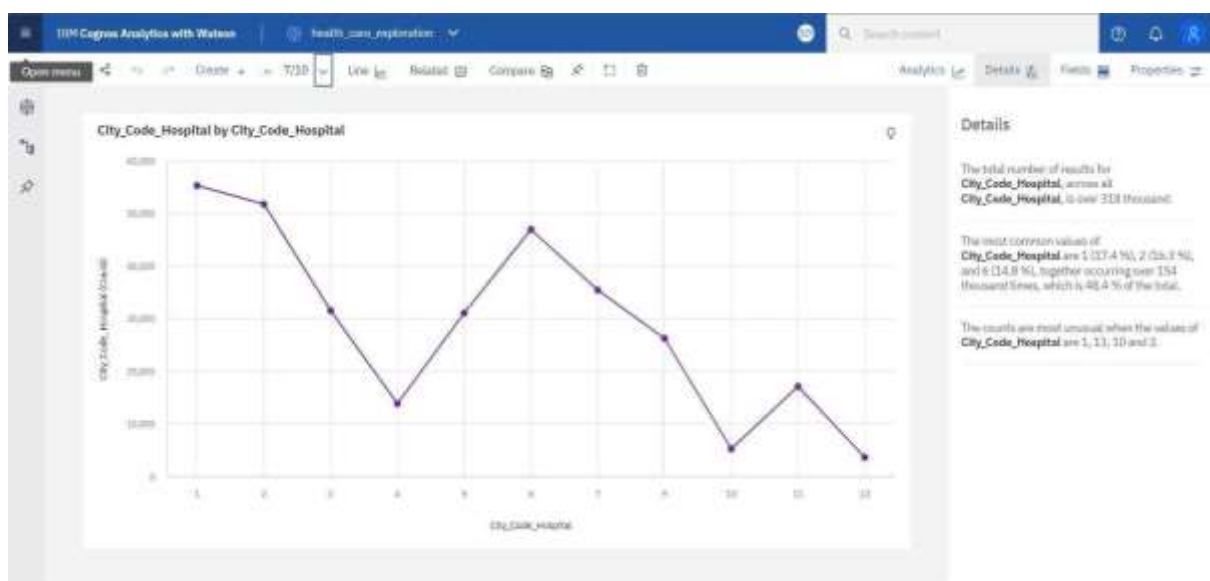
2. Case\_id by Patient\_id



### 3. Visitors with Patient by Type of Admission:



### 4.City\_Code\_Hospital by City\_Code\_Hospital:



## 5.City\_Code\_Hospital by Department:

