Project Development Phase

Delivery of Sprint-2

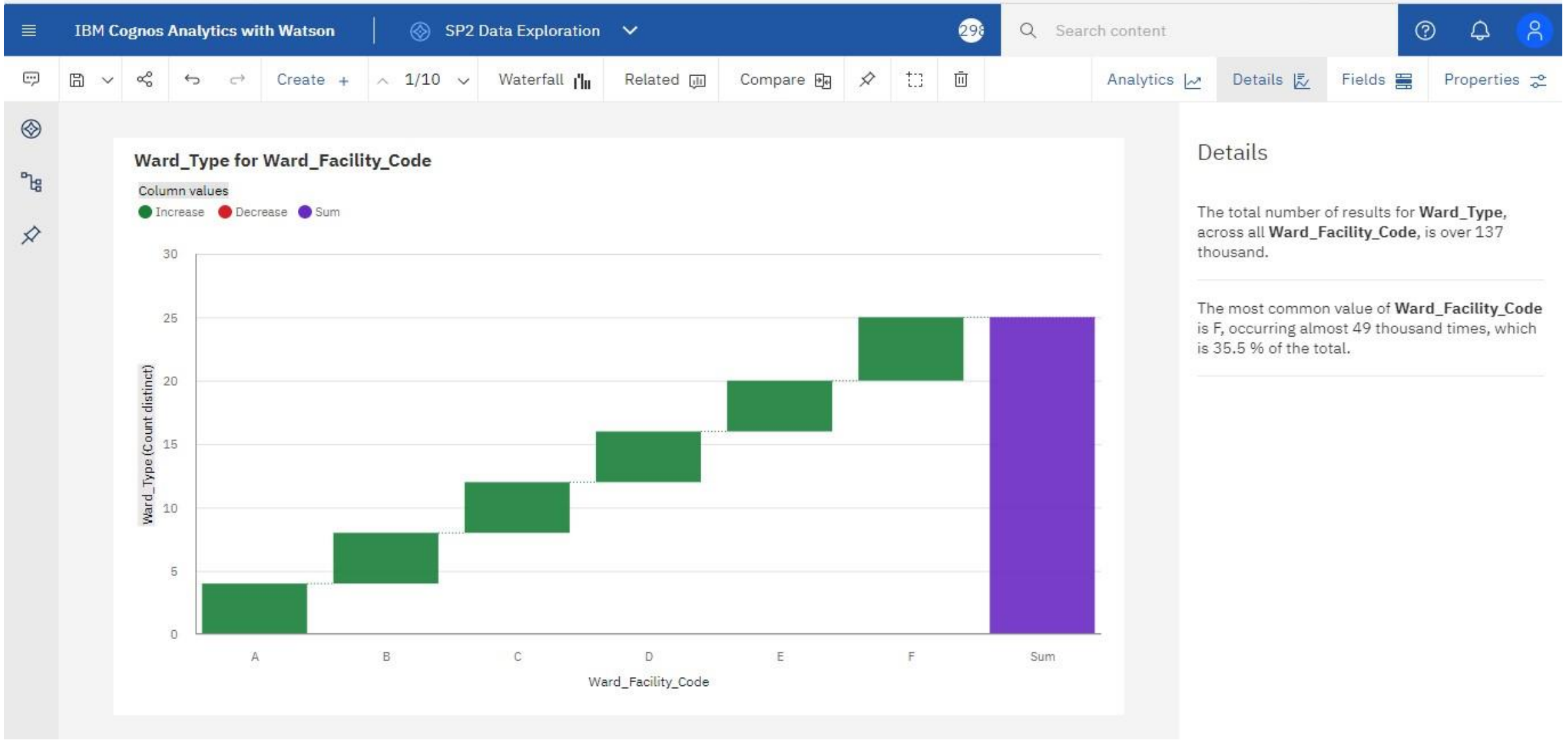
Date:	**10.11.2022**
Team ID :	**PNT2022TMID01016**
Project Name :	**Analytics for Hospital Health-Care Data**

A) Data Explorations:

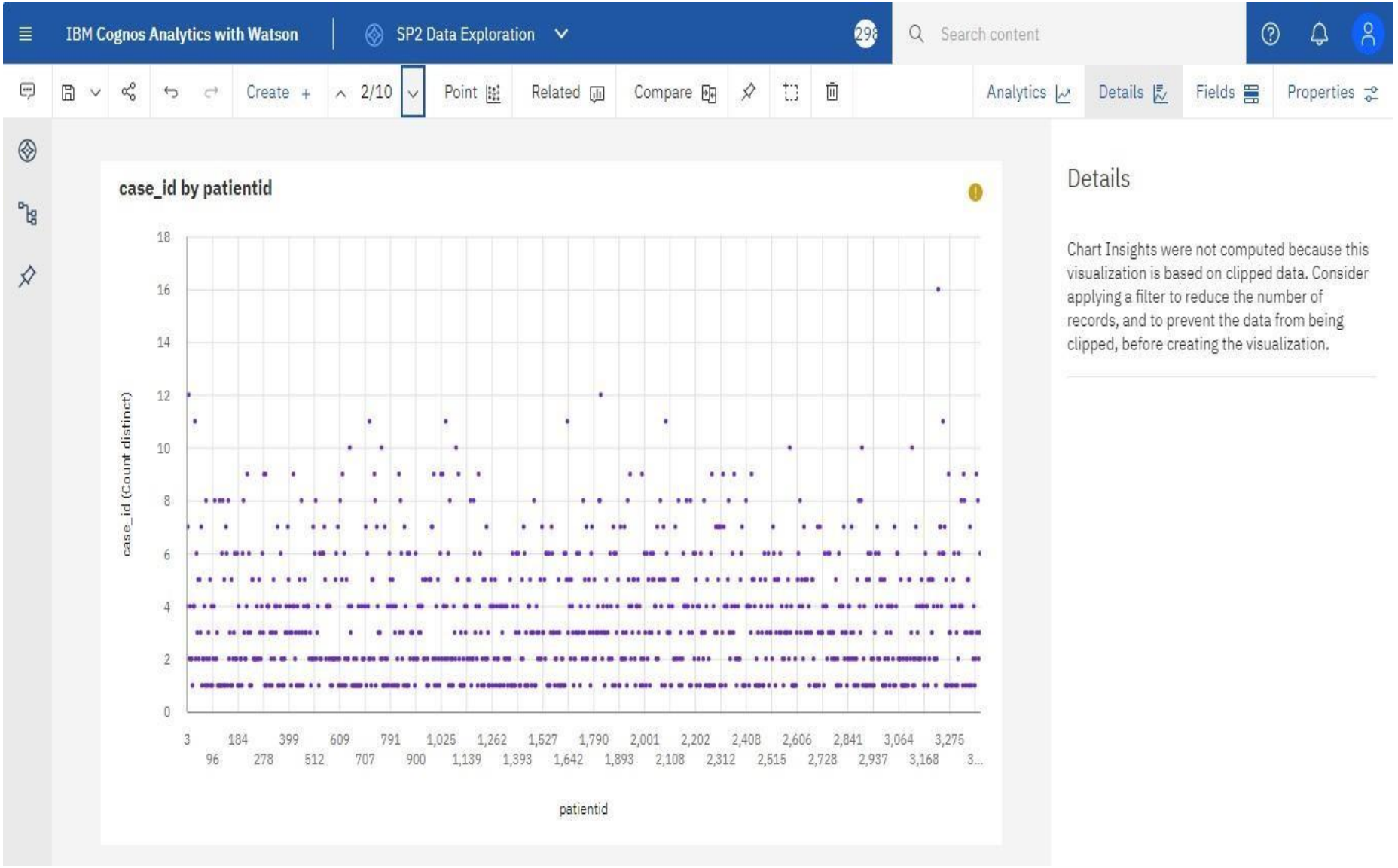
1. **Ward_Type for Ward_Facility_Code**
2. **case_id by patient_id**
3. **City_Code_Hospital by City_Code_Hospital**

4. City_Code_Hospital by Department
5. Department compared to Hospital_region_code
6. Ward_Facility_Code for City_Code_Patient hierarchy
7. Ward_Type colored by Department sized by Department
8. Type of Admission by Department colored by Department
9. Visitors with Patient by Type of Admission
10. Hospital_region_code for Hospital_region_code regions

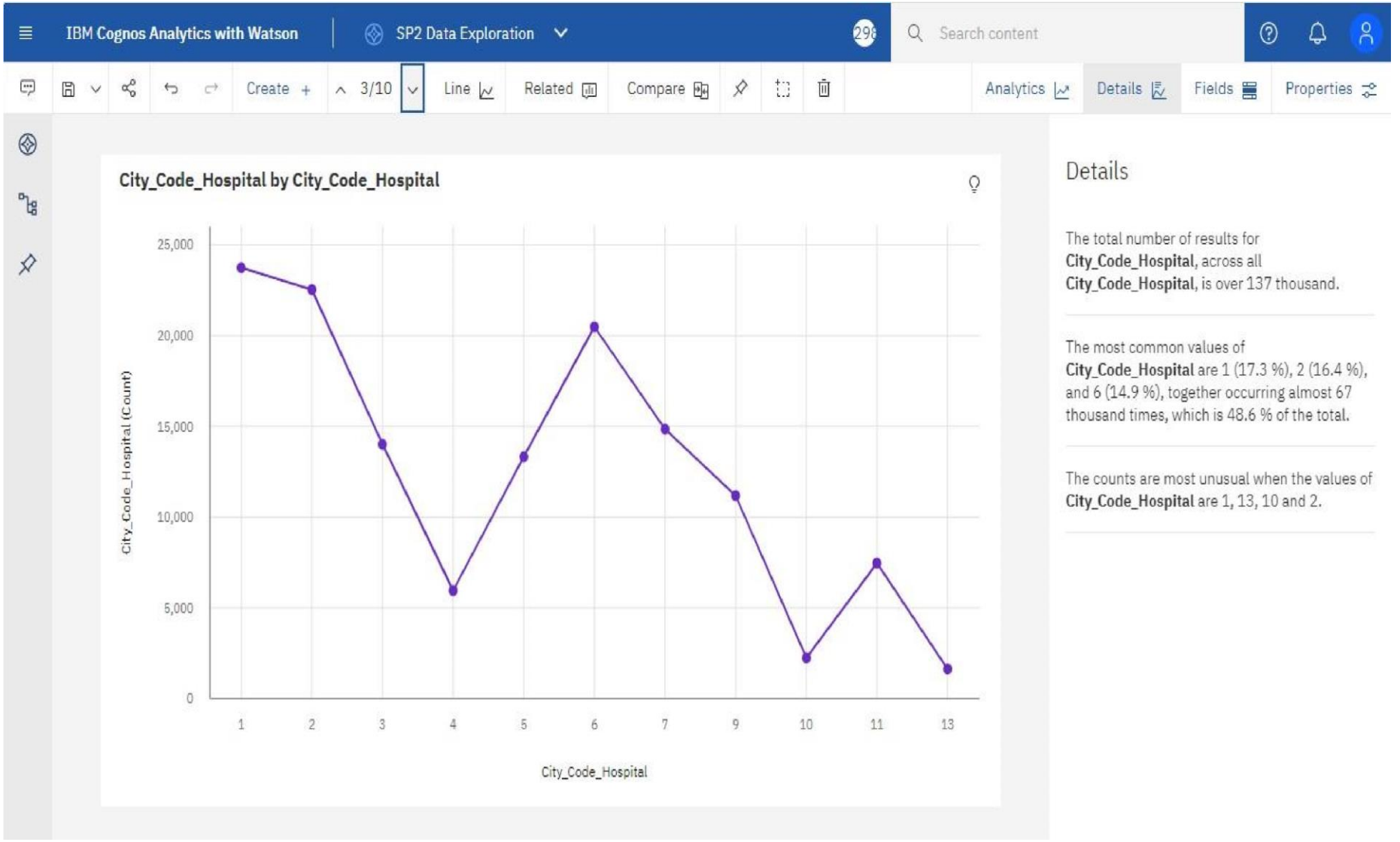
1. Ward_Type for Ward_Facility_Code



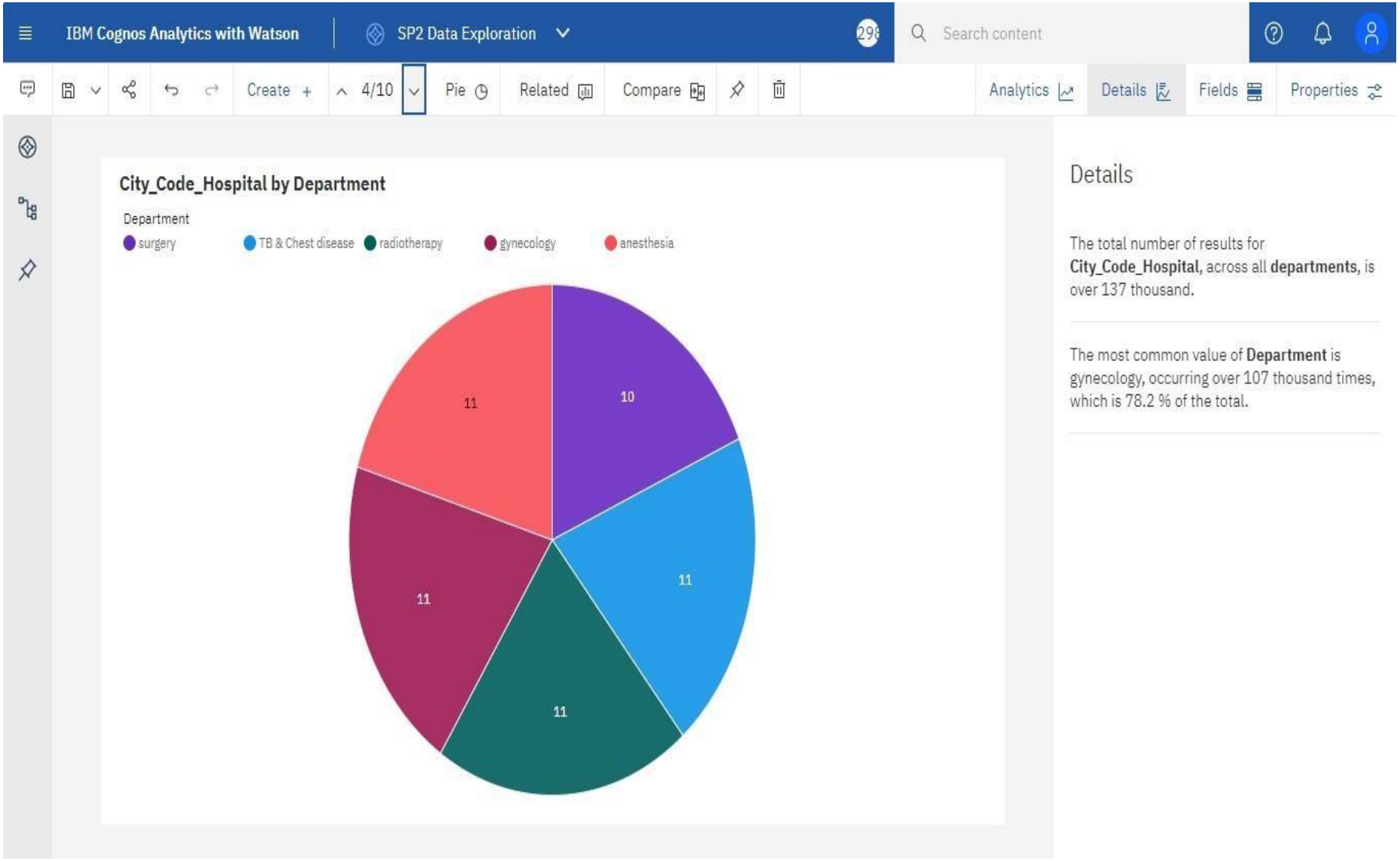
2. case_id by patient_id



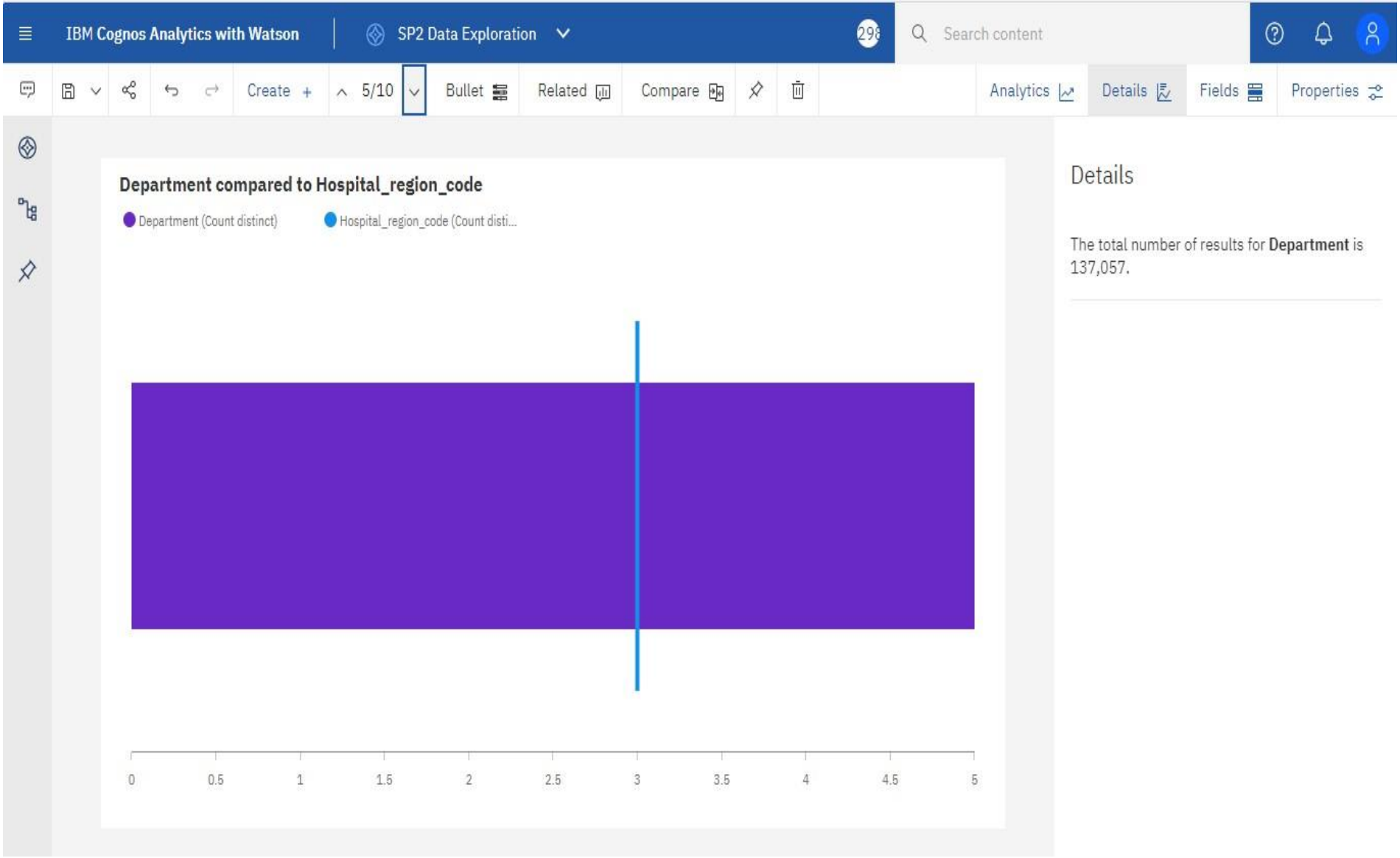
3. City_Code_Hospital by City_Code_Hospital


IBM Cognos Analytics with Watson
SP2 Data Exploration
Search content
Create
3/10
Line
Related
Compare
Analytics
Details
Fields
Properties
City_Code_Hospital by City_Code_Hospital
25,000
20,000
15,000
10,000
5,000
0
City_Code_Hospital (Count)
1
2
3
4
5
6
7
9
10
11
13
City_Code_Hospital
Details
The total number of results for City_Code_Hospital, across all City_Code_Hospital, is over 137 thousand.
The most common values of City_Code_Hospital are 1 (17.3 %), 2 (16.4 %), and 6 (14.9 %), together occurring almost 67 thousand times, which is 48.6 % of the total.
The counts are most unusual when the values of City_Code_Hospital are 1, 13, 10 and 2.

4. City_Code_Hospital by Department

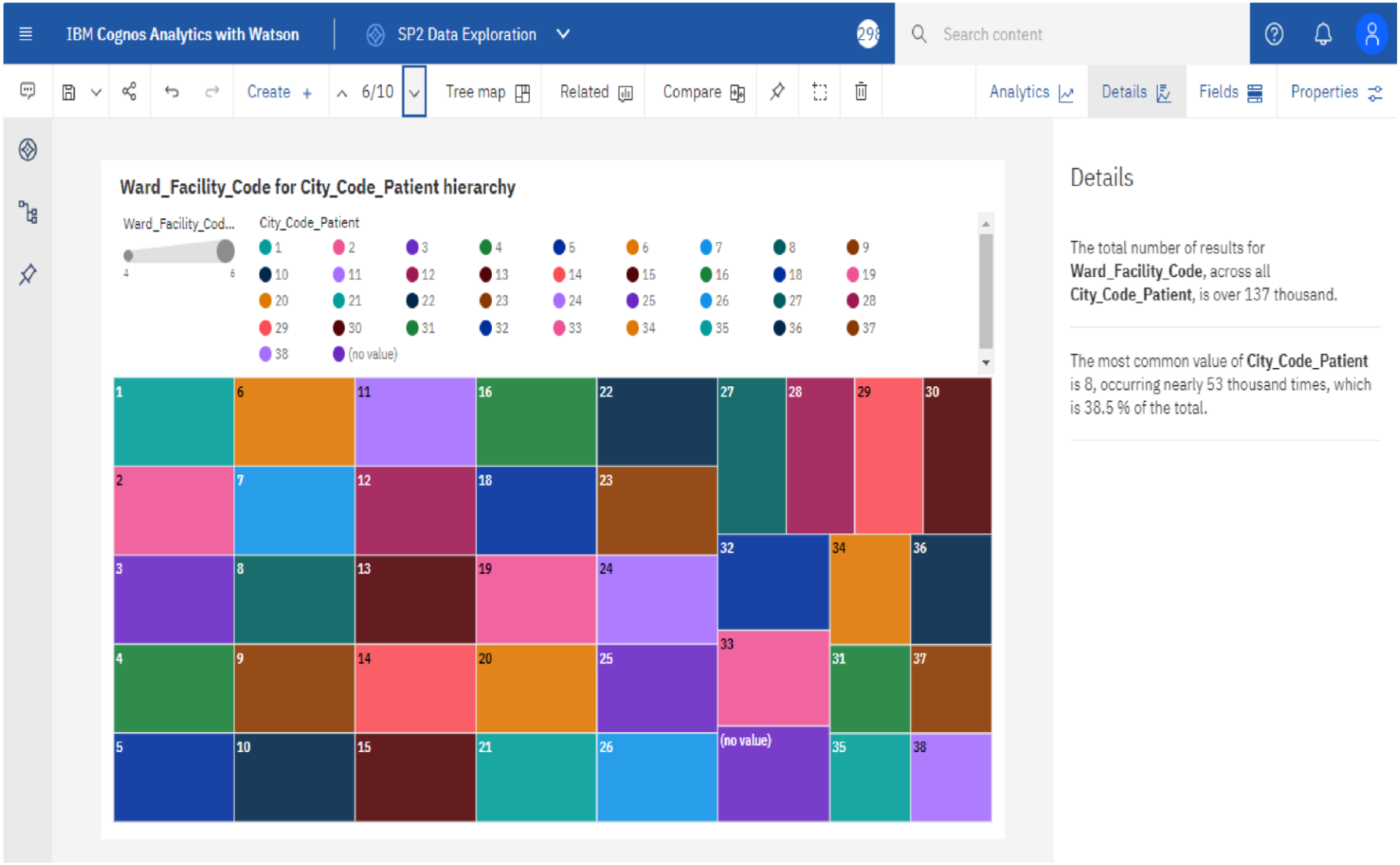


5. Department compared to Hospital_region_code

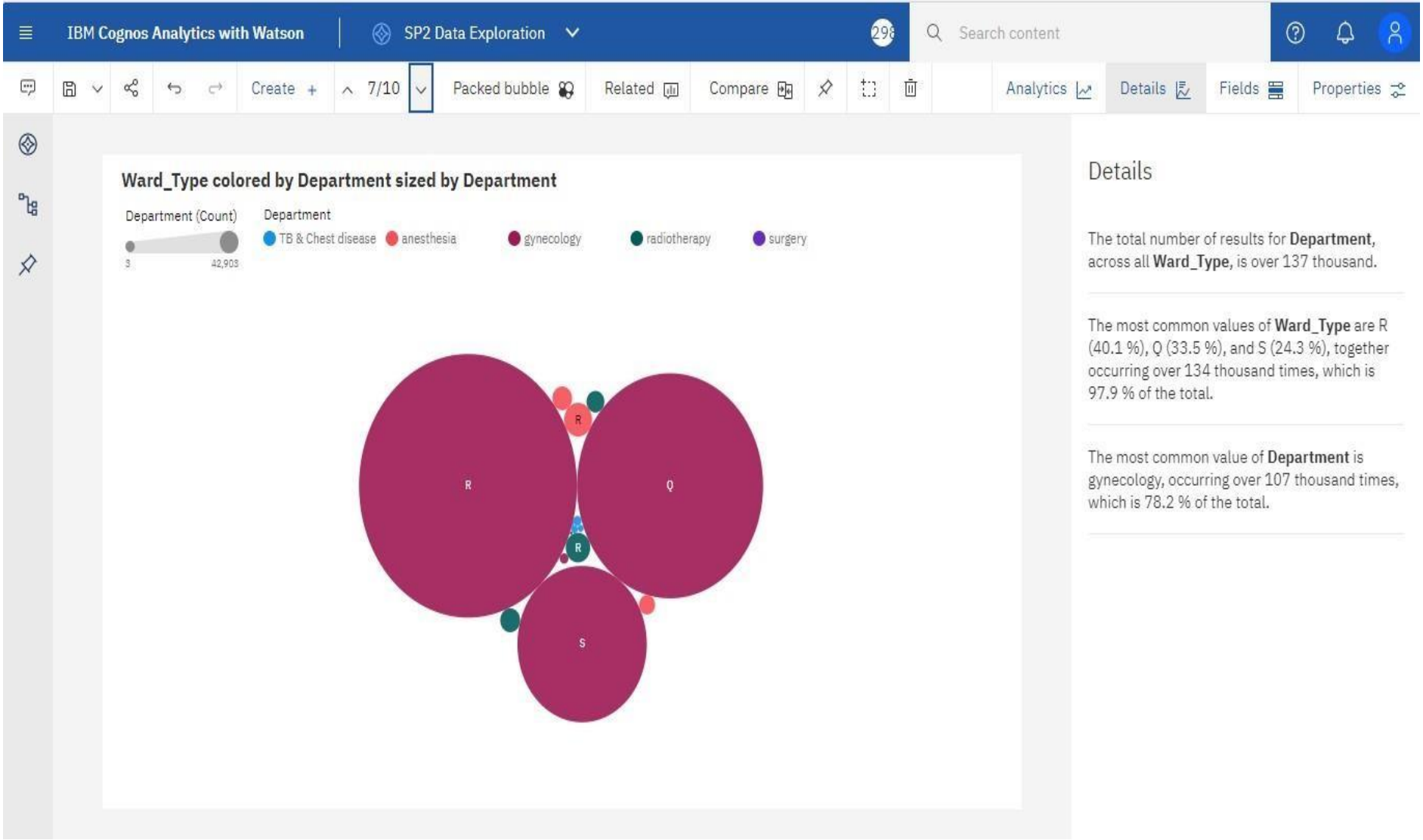


6. Ward_Facility_Code for City_Code_Patient

hierarchy

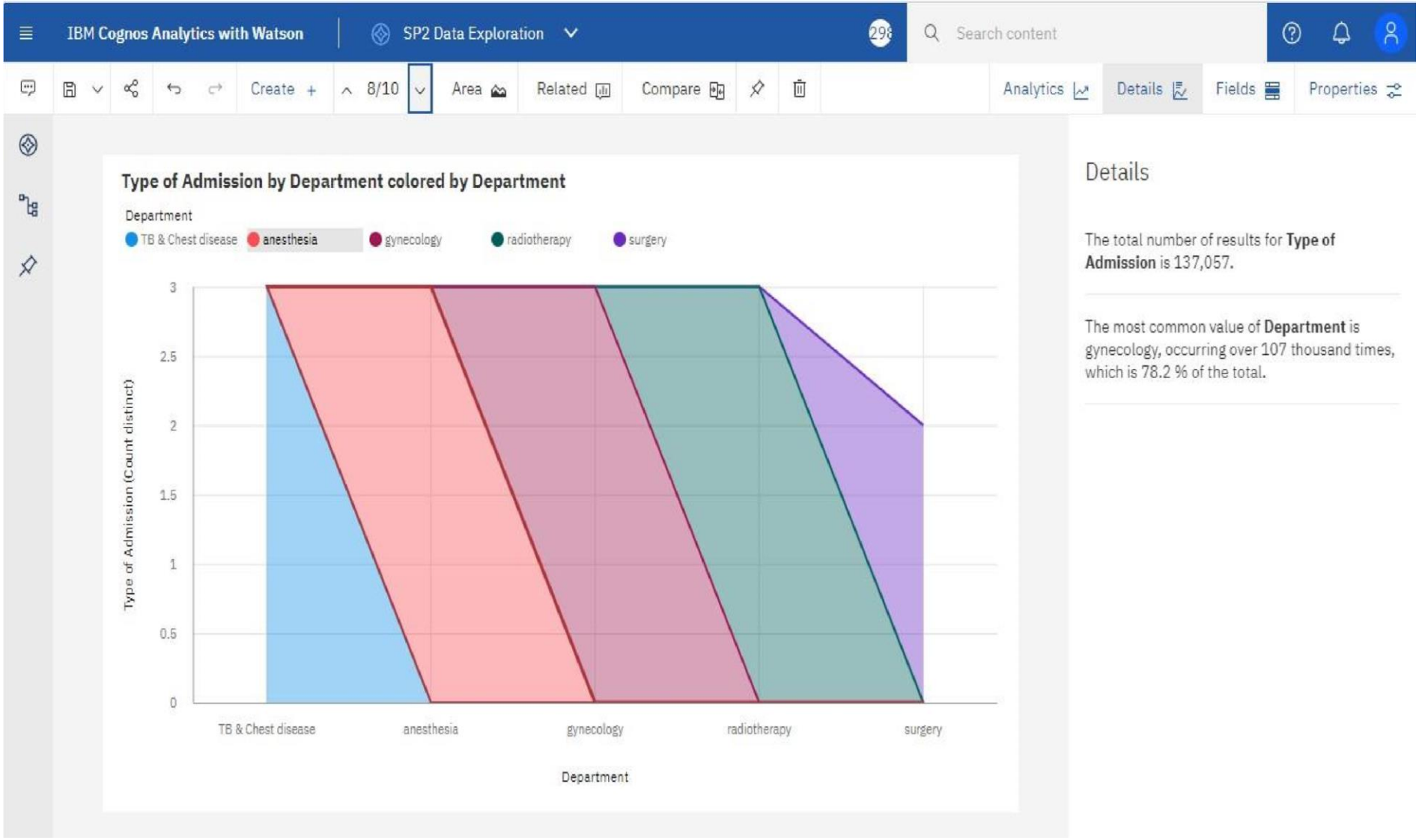

IBM Cognos Analytics with Watson
SP2 Data Exploration
Search content
Create
6/10
Tree map
Related
Compare
Analytics
Details
Fields
Properties
Ward_Facility_Code for City_Code_Patient hierarchy
Ward_Facility_Cod...
City_Code_Patient
4
6
1 2 3 4 5 6 7 8 9
10 11 12 13 14 15 16 18 19
20 21 22 23 24 25 26 27 28
29 30 31 32 33 34 35 36 37
38 (no value)
1 6 11 16 22 27 28 29 30
2 7 12 18 23 32 34 36
3 8 13 19 24 33
4 9 14 20 25 31 37
5 10 15 21 26 (no value) 35 38
Details
The total number of results for Ward_Facility_Code, across all City_Code_Patient, is over 137 thousand.
The most common value of City_Code_Patient is 8, occurring nearly 53 thousand times, which is 38.5 % of the total.

7. **Ward_Type colored by Department sized by Department**

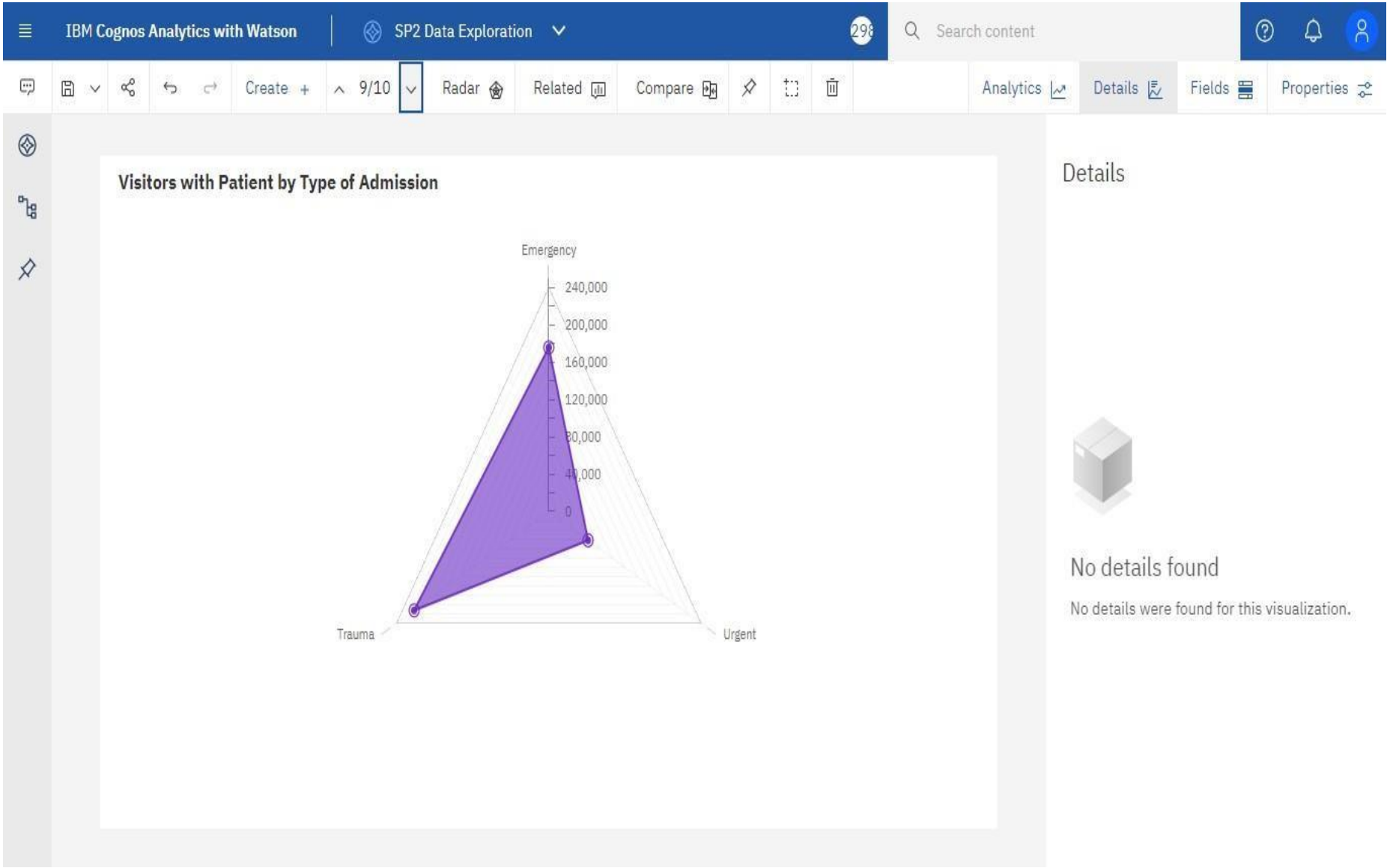

IBM Cognos Analytics with Watson
SP2 Data Exploration
Search content
Create
7/10
Packed bubble
Related
Compare
Analytics
Details
Fields
Properties
Ward_Type colored by Department sized by Department
Department (Count)
3
42,903
Department
TB & Chest disease
anesthesia
gynecology
radiotherapy
surgery
R
Q
R
S
Details
The total number of results for Department, across all Ward_Type, is over 137 thousand.
The most common values of Ward_Type are R (40.1 %), Q (33.5 %), and S (24.3 %), together occurring over 134 thousand times, which is 97.9 % of the total.
The most common value of Department is gynecology, occurring over 107 thousand times, which is 78.2 % of the total.

8. Type of Admission by Department colored by

Department

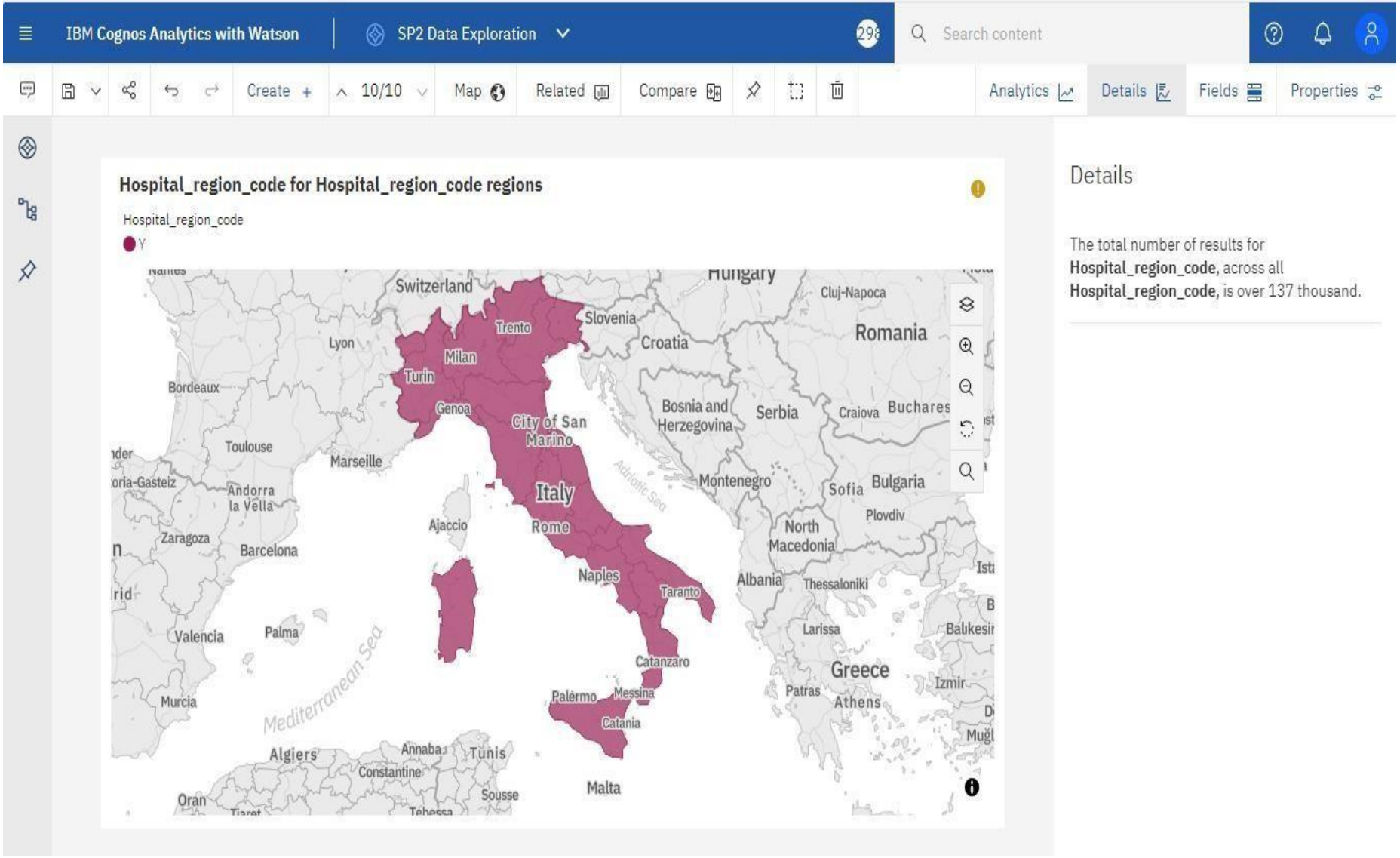

IBM Cognos Analytics with Watson
SP2 Data Exploration
Search content
Create
8/10
Area
Related
Compare
Analytics
Details
Fields
Properties
Type of Admission by Department colored by Department
Department
TB & Chest disease
anesthesia
gynecology
radiotherapy
surgery
Type of Admission (Count distinct)
3
2.5
2
1.5
1
0.5
0
TB & Chest disease
anesthesia
gynecology
radiotherapy
surgery
Department
Details
The total number of results for Type of Admission is 137,057.
The most common value of Department is gynecology, occurring over 107 thousand times, which is 78.2 % of the total.

9. Visitors with Patient by Type of Admission



10. Hospital_region_code for Hospital_region_code

regions


IBM Cognos Analytics with Watson
SP2 Data Exploration
Search content
Create
10/10
Map
Related
Compare
Analytics
Details
Fields
Properties
Hospital_region_code for Hospital_region_code regions
Hospital_region_code
Y
Switzerland
Hungary
Cluj-Napoca
Slovenia
Trento
Romania
Lyon
Croatia
Milan
Turin
Bordeaux
Genoa
Bosnia and Herzegovina
Serbia
Craiova
Buchares
City of San Marino
Toulouse
Marseille
Montenegro
Sofia
Bulgaria
Andorra la Vella
Italy
Adriatic Sea
Plovdiv
Ajaccio
Rome
North Macedonia
Zaragoza
Barcelona
Naples
Albania
Thessaloniki
Taranto
Valencia
Palma
Larissa
Catanzaro
Greece
Mediterranean Sea
Palermo
Messina
Patras
Athens
Izmir
Murcia
Catania
Algiers
Annaba
Tunis
Constantine
Malta
Oran
Sousse
Details
The total number of results for Hospital_region_code, across all Hospital_region_code, is over 137 thousand.

B) Data Visualizations

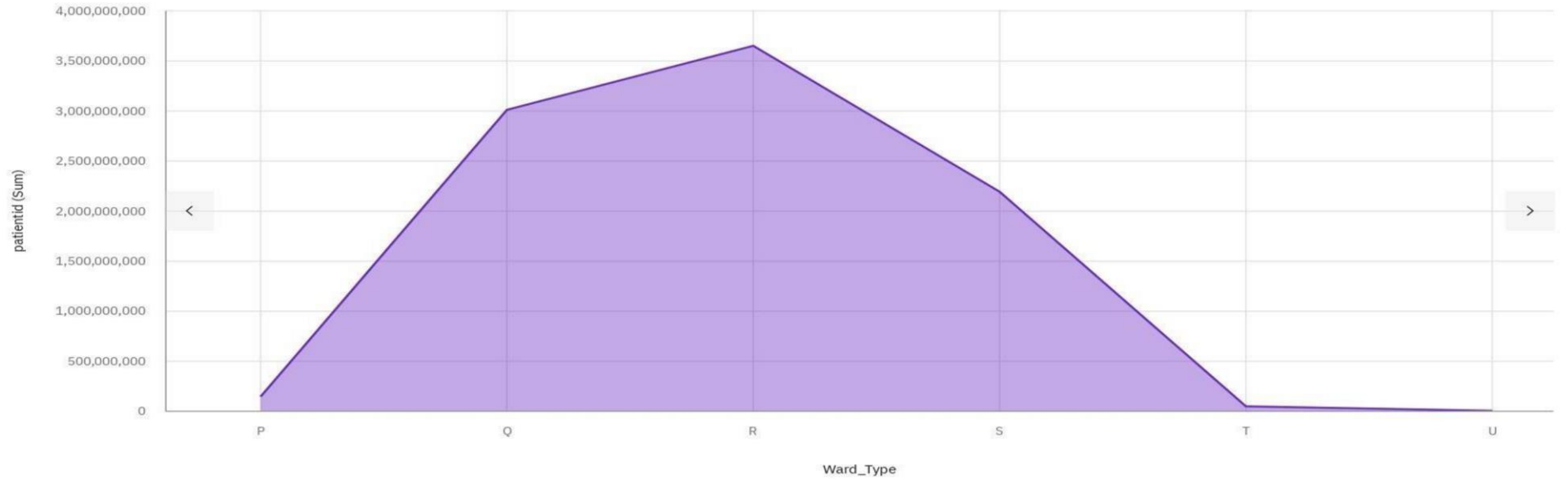
1. Number Of Patients By Ward Types
2. Dashboard To Show Number Of Patients
3. Age Wise Patients With Department And Severity Filters
4. Dashboard With Hierarchy Bubble And Radial Visuals
5. Dashboard Showing Pie, Stacked Bar, Waterfall And Pie Charts

1. Number Of Patients By Ward Types

Tab 1

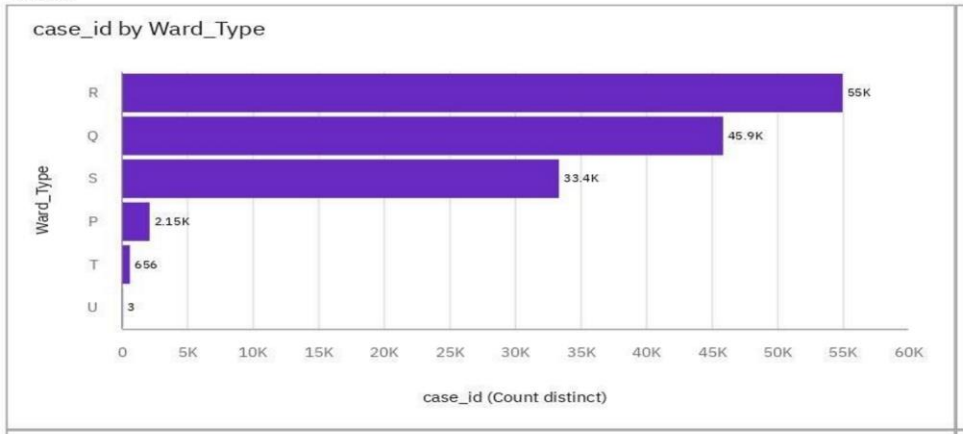
Department	Ward_Type	Type of Admission	Severity of Illness
5	6	3	3
Department	Ward_Type	Type of Admission	Severity of Illness

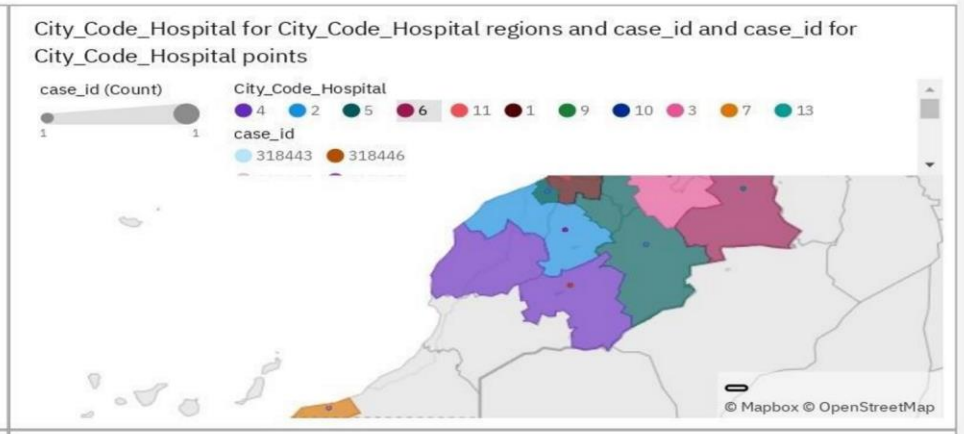
patientid by Ward_Type

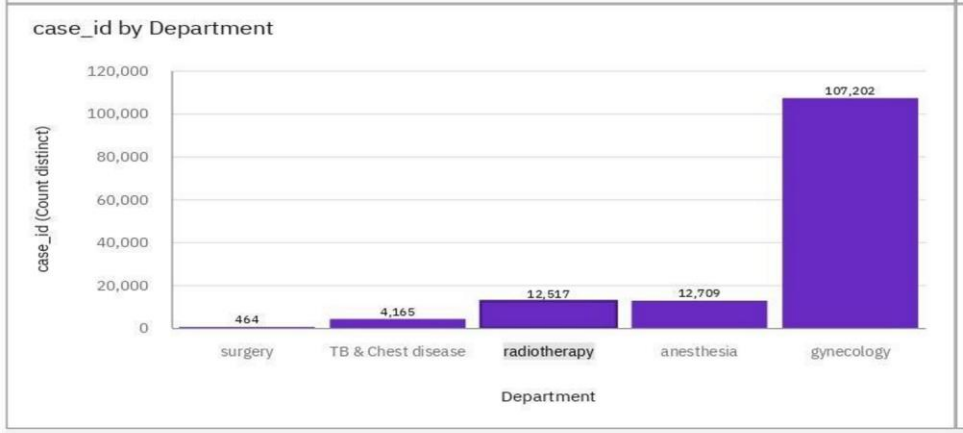


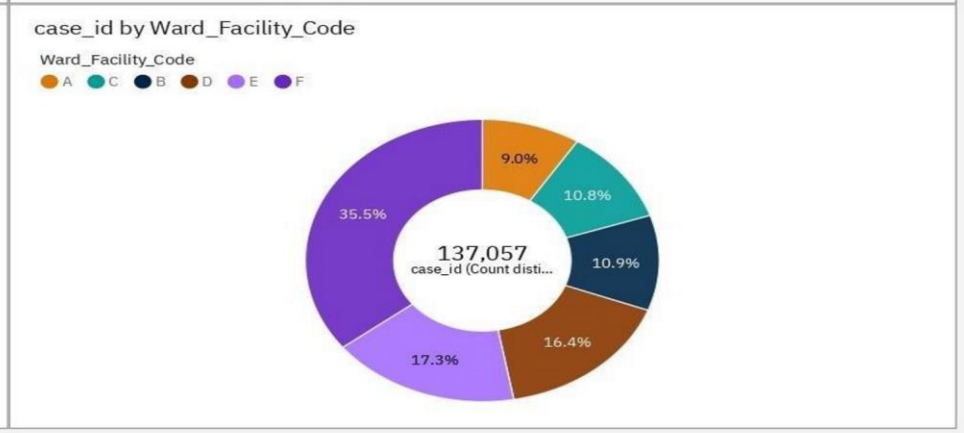
2. Dashboard To Show Number Of Patients:

Tab 2



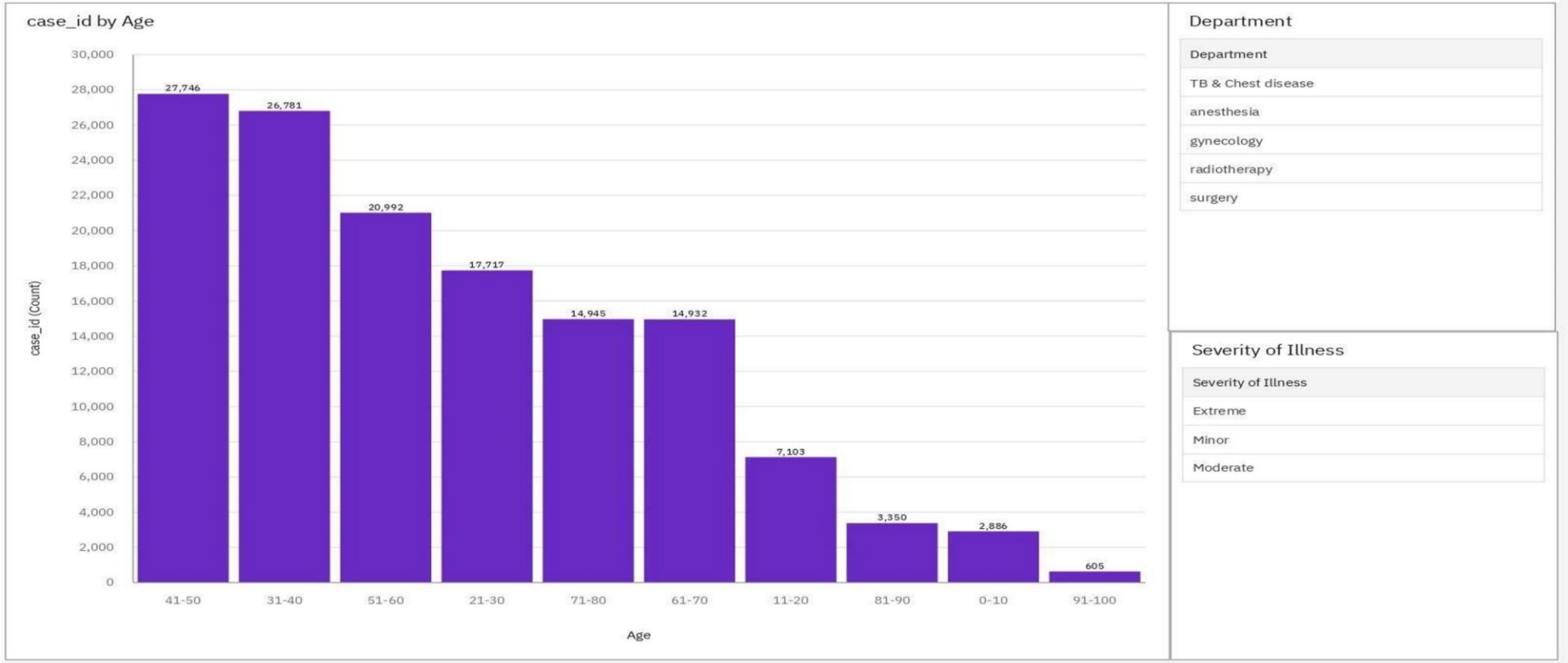






3. Age Wise Patients With Department And Severity Filters

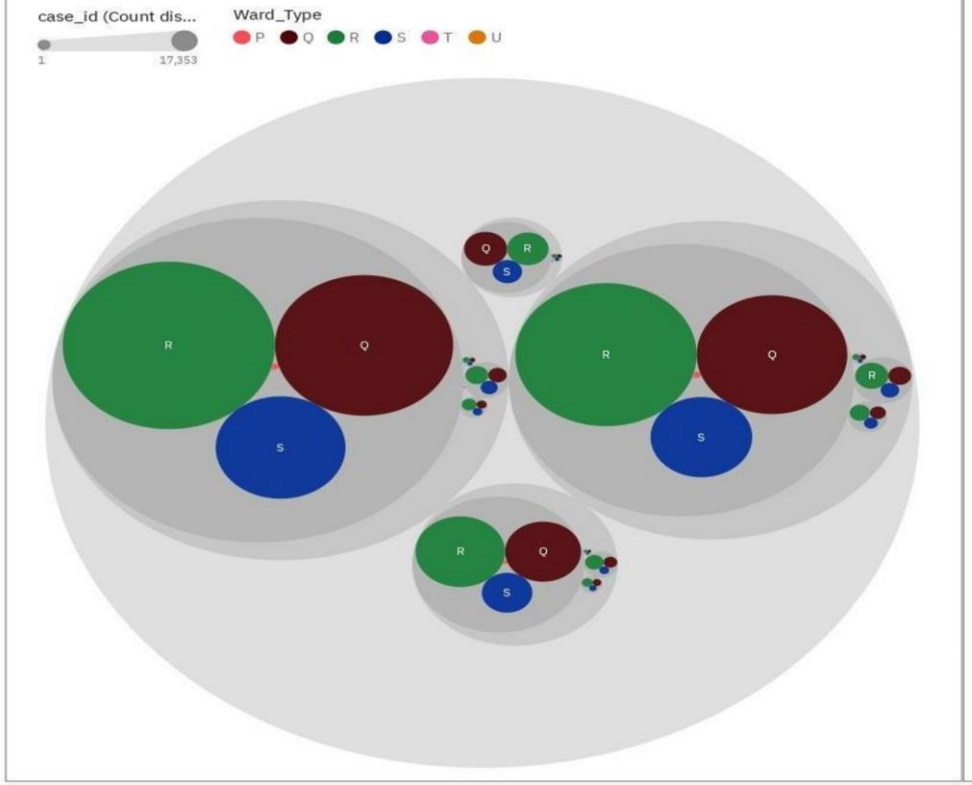
Tab 3



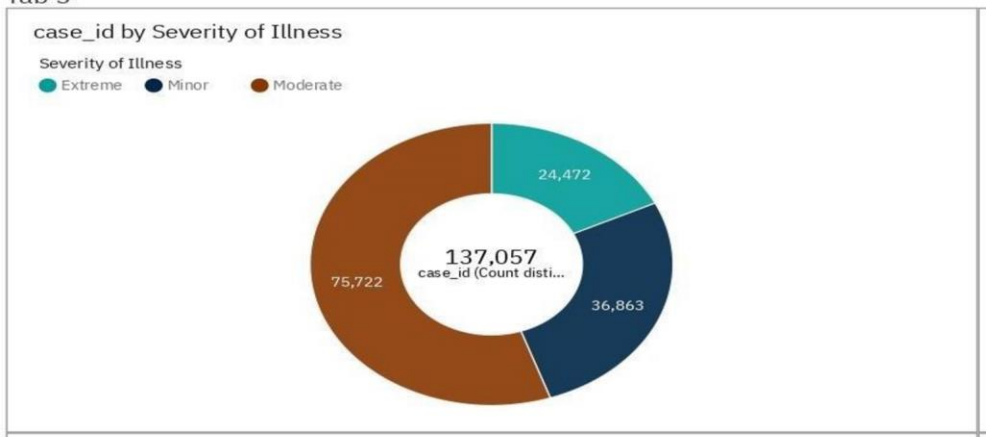
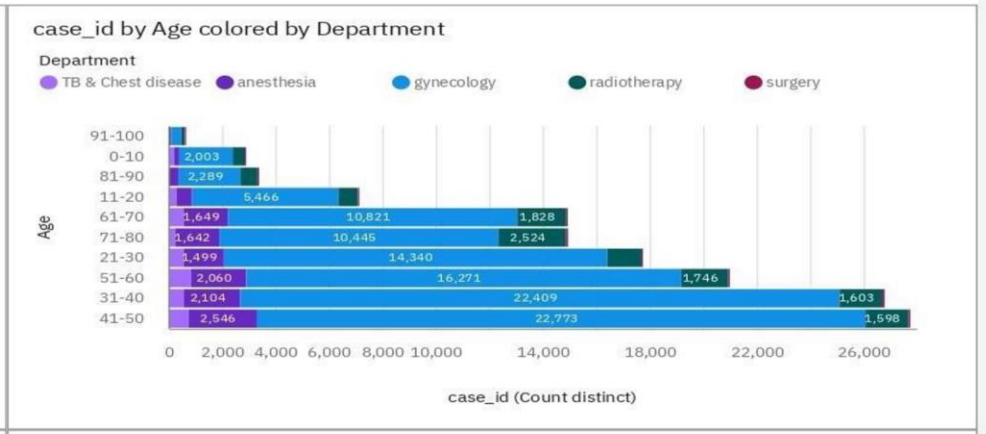
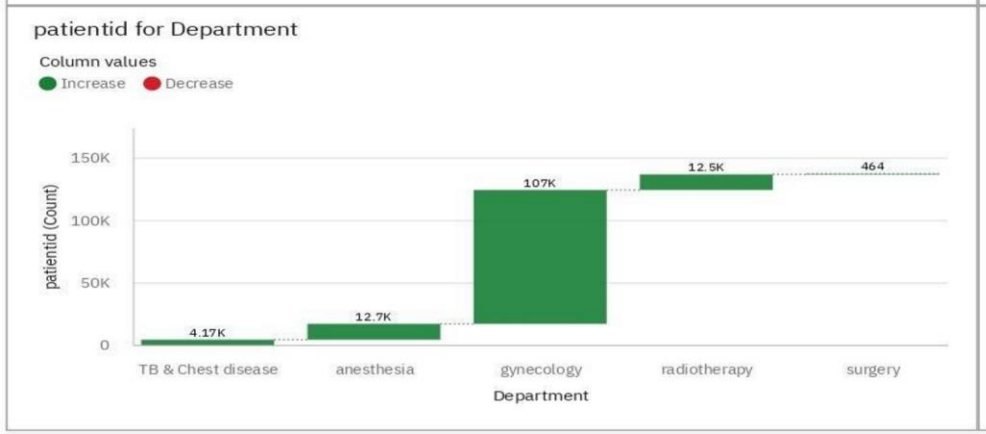
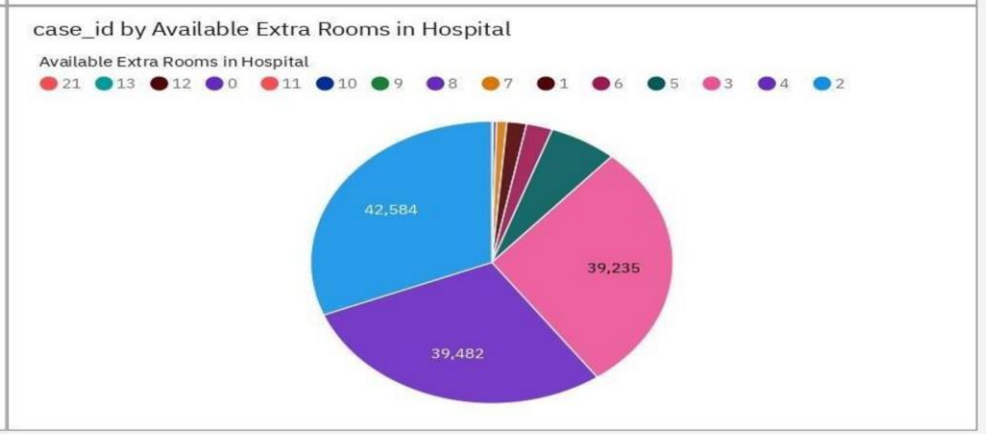
4. Dashboard With Hierarchy Bubble And Radial Visuals

Tab 4

Bed Grade, Department and Ward_Type hierarchy colored by Ward_Type and sized by case_id



Admission_Deposit by Department

5. Dashboard Showing Pie, Stacked Bar, Waterfall And Pie Charts

Tab 5