

PROJECT DEVELOPMENT PHASE

DELIVERY OF SPRINT – 1

TEAM ID	PNT2022TMID52975
TEAM MEMBERS	1)SIDHESH R ALLU 2)PADMACHARAN D 3)PRASANNA K 4)THARUN ARASU SK
PROJECT NAME	ANALYTICS FOR HOSPITALS' HEALTH CARE DATA

DOWNLOADING DATASET FROM GOOGLE DRIVE:

Guided ProjectProject WorkspaceChat with Mentor

Analytics For Hospitals' Health-Care Data

Solution Requirements

Project Objectives

Project Flow

IBM Cognos Analytics

Working With The Dataset

Understanding The Dataset


Dataset Link

Loading The Dataset

Exploration Of Data

Data Visualizations

Ideation Phase



https://drive.google.com/drive/folders/1qozDgfvw04hG5BDI_SFhUNDUKUdjkhT7usp=sharing

Healthcare_Data.zip 4 items

Name	Last modified	File size
 sample_sub.csv	Aug 23, 2021	2 MB
 test_data.csv	Aug 23, 2021	10 MB
 train_data.csv	Aug 23, 2021	26 MB
 train_data_dictionary.csv	Aug 23, 2021	863 bytes

Analytics for Hospitals' Health Care Data:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1	case_id	Hospital_c	Hospital_t	City_Code	Hospital_r	Available	Department	Ward_Type	Ward_Faci	Bed Grade	patientid	City_Code	Type of Ad	Severity of	Visitors wi	Age	Admission	Stay
2	1	8 c		3 Z			3 radiothera	R	F	2	31397	7	Emergency	Extreme	2	51-60	4911	0-10
3	2	2 c		5 Z			2 radiothera	S	F	2	31397	7	Trauma	Extreme	2	51-60	5954	41-50
4	3	10 e		1 X			2 anesthesia	S	E	2	31397	7	Trauma	Extreme	2	51-60	4745	31-40
5	4	26 b		2 Y			2 radiothera	R	D	2	31397	7	Trauma	Extreme	2	51-60	7272	41-50
6	5	26 b		2 Y			2 radiothera	S	D	2	31397	7	Trauma	Extreme	2	51-60	5558	41-50
7	6	23 a		6 X			2 anesthesia	S	F	2	31397	7	Trauma	Extreme	2	51-60	4449	Nov-20
8	7	32 f		9 Y			1 radiothera	S	B	3	31397	7	Emergency	Extreme	2	51-60	6167	0-10
9	8	23 a		6 X			4 radiothera	Q	F	3	31397	7	Trauma	Extreme	2	51-60	5571	41-50
10	9	1 d		10 Y			2 gynecolog	R	B	4	31397	7	Trauma	Extreme	2	51-60	7223	51-60
11	10	10 e		1 X			2 gynecolog	S	E	3	31397	7	Trauma	Extreme	2	51-60	6056	31-40
12	11	22 g		9 Y			2 radiothera	S	B	2	31397	7	Urgent	Extreme	2	51-60	5797	21-30
13	12	26 b		2 Y			4 radiothera	R	D	1	31397	7	Urgent	Extreme	2	51-60	5993	Nov-20
14	13	16 c		3 Z			2 radiothera	R	A	3	31397	7	Emergency	Extreme	2	51-60	5141	0-10
15	14	9 d		5 Z			3 radiothera	S	F	3	31397	7	Urgent	Extreme	2	51-60	8477	21-30
16	15	6 a		6 X			4 gynecolog	Q	F	3	63418	8	Emergency	Extreme	2	71-80	2685	0-10
17	16	6 a		6 X			3 gynecolog	Q	F	3	63418	8	Emergency	Extreme	2	71-80	9398	0-10
18	17	23 a		6 X			4 radiothera	Q	F	3	63418	8	Urgent	Extreme	4	71-80	2933	0-10
19	18	29 a		4 X			4 anesthesia	S	F	3	63418	8	Emergency	Extreme	2	71-80	5342	Nov-20
20	19	32 f		9 Y			4 radiothera	S	B	2	63418	8	Trauma	Extreme	2	71-80	7442	21-30
21	20	12 a		9 Y			4 radiothera	Q	B	2	63418	8	Trauma	Extreme	2	71-80	5155	31-40
22	21	16 c		3 Z			2 anesthesia	S	A	3	63418	8	Trauma	Extreme	2	71-80	8181	31-40
23	22	3 c		3 Z			2 anesthesia	R	A	3	63418	8	Trauma	Extreme	2	71-80	6672	21-30
24	23	21 c		3 Z			2 anesthesia	S	A	3	63418	8	Trauma	Extreme	2	71-80	6364	Nov-20
25	24	6 a		6 X			3 anesthesia	R	F	3	63418	8	Urgent	Extreme	2	71-80	4664	21-30
26	25	26 b		2 Y			4 radiothera	Q	D	1	63418	8	Trauma	Extreme	4	71-80	4091	31-40
27	26	28 b		11 X			4 gynecolog	R	F	2	8088	2	Emergency	Moderate	2	31-40	2405	Nov-20
28	27	26 b		2 Y			4 anesthesia	Q	D	3	8088	2	Trauma	Moderate	2	31-40	5164	Nov-20
29	28	26 b		2 Y			4 gynecolog	R	D	3	8088	2	Trauma	Moderate	2	31-40	5055	21-30


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Quick launch




Upload data

Upload or drag and drop spreadsheets, csv files, and other data sources.




Prepare data

Use data modules to clean and connect data from multiple resources.



Exploration

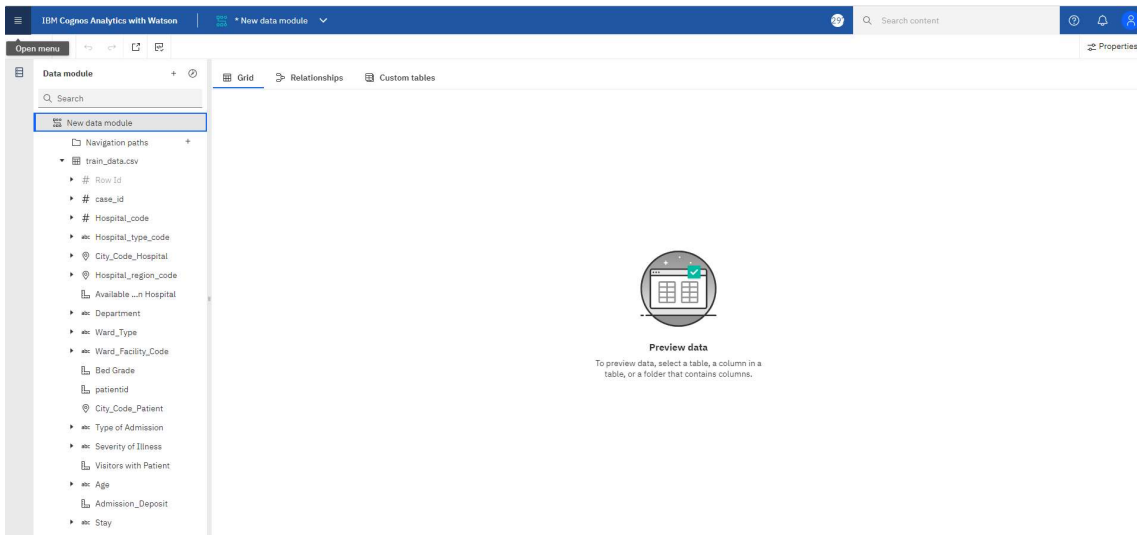
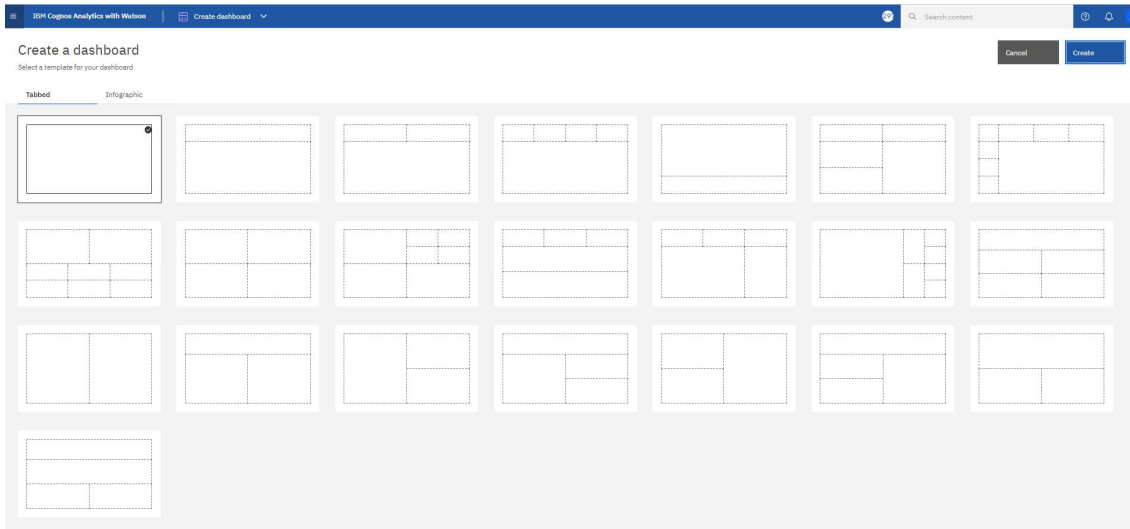
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* New data module

Search content

Open menu

Data module

Search

New data module

Navigation paths

train_data.csv

Row Id

case_id

Hospital_code

Hospital...pe_code

City_Code_Hospital

Hospital...ion_code

Available...Hospital

Department

Ward_Type

Ward_Fa...ty_Code

Bed Grade

patientid

City_Code_Patient

Type of Admission

Severity of Illness

Visitors ...h Patient

Grid

Relationships

Custom tables

case_id	Hospital_code	Hospital_type_code	City_Code_Hospital	Hospital_region_code	Available E...in Hospital	Department
1	8	c	3	Z	3	radiotherapy
2	2	c	5	Z	2	radiotherapy
3	10	e	1	X	2	anesthesia
4	26	b	2	Y	2	radiotherapy
5	26	b	2	Y	2	radiotherapy
6	23	a	6	X	2	anesthesia
7	32	f	9	Y	1	radiotherapy
8	23	a	6	X	4	radiotherapy
9	1	d	10	Y	2	gynecology
10	10	e	1	X	2	gynecology
11	22	g	9	Y	2	radiotherapy
12	26	b	2	Y	4	radiotherapy
13	16	c	3	Z	2	radiotherapy
14	9	d	5	Z	3	radiotherapy
15	6	a	6	X	4	gynecology

IBM Cognos Analytics with Watson

* New data module

Search content

Properties

Data module

Grid

Relationships

Custom tables

Search

Identify navigation paths

1. e E...in Hospital

Department

Ward_Type

Ward_Facility_Code

Bed Grade

patientid

City_Code_Patient

Type of Admission

Row Id

case_id

Hospital_code

Hospital...pe_code

City_Cod...Hospital

Hospital...ion_code

Available...Hospital

Department

Ward_Type

Ward_Fa...ty_Code

Bed Grade

patientid

City_Code_Patient

Type of Admission

Severity of Illness

Visitors ...h Patient

Age

Admissio...Deposit

CF...

		radiotherapy	R	F	2	31397	7	Emergency
		radiotherapy	S	F	2	31397	7	Trauma
		anesthesia	S	E	2	31397	7	Trauma
		radiotherapy	R	D	2	31397	7	Trauma
		radiotherapy	S	D	2	31397	7	Trauma
		anesthesia	S	F	2	31397	7	Trauma
		radiotherapy	S	B	3	31397	7	Emergency
		radiotherapy	Q	F	3	31397	7	Trauma
		gynecology	R	B	4	31397	7	Trauma
		gynecology	S	E	3	31397	7	Trauma
		radiotherapy	S	B	2	31397	7	Urgent
		radiotherapy	R	D	1	31397	7	Urgent
		radiotherapy	R	A	3	31397	7	Emergency
		radiotherapy	S	F	3	31397	7	Urgent
		gynecology	Q	F	3	63418	8	Emergency