

Project Development Phase

Delivery of Sprint-1

Date	24 OCT 2022
Team ID	PNT2022TMID28558
Project Name	Analytics for Hospitals' Health-Care Data

Project Development Phase:

Sprint-1:

- Data Collection
- Data Preparation

Sprint-2:

- Data Exploration

Sprint-3:

- Dashboard Creation

Sprint-4:

- Report Creation
- Story Creation

Sprint-1:

Data Collection: Download the Dataset Dataset link :

https://drive.google.com/drive/folders/1qozDgfVw04hGS8Di_SFhUNdUKUdjkhRT?usp=sharing

Load the Dataset:

Tool used: IBM Cognos Analytics

IBM Cognos Analytics with Watson

Maintenance: Scheduled maintenance completed. Click I

Reading test_data.csv...

Cancel Details

Dismiss More info →

Hello. Welcome to Cognos Analytics with Watson.

You can get started right away by taking a look at our introduction video, product tour and Getting Started tab.

Watch video

Take a product tour

Quick launch

Upload data

Upload or drag and drop spreadsheets, csv files, and other

Prepare data

Use data modules to clean and connect data from multiple

Exploration

Quickly find unbiased answers by identifying trends in your data with

Present data

Create sophisticated, multi-page, multi-query dashboards, reports,

Data Preparation:

Prepare the Dataset

IBM Cognos Analytics with Watson

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Grid

Relationships

Custom tables

↕	Row Id	case_id	Hospital_code	Hospital_type_code	City_Code_Hospital	Hospital_region_code	Available E...in Hospital	Depart
	1	1	8	c	3	Z	3	radic
	2	2	2	c	5	Z	2	radic
	3	3	10	e	1	X	2	anes
	4	4	26	b	2	Y	2	radic
	5	5	26	b	2	Y	2	radic
	6	6	23	a	6	X	2	anes
	7	7	32	f	9	Y	1	radic
	8	8	23	a	6	X	4	radic
	9	9	1	d	10	Y	2	gyne
	10	10	10	e	1	X	2	gyne
	11	11	22	g	9	Y	2	radic
	12	12	26	b	2	Y	4	radic
	13	13	16	c	3	Z	2	radic

Null Values Cleaning Process :

The screenshot shows the 'Edit calculation' dialog in IBM Cognos Analytics. The 'Name' field is set to 'City_Code_Patient'. The 'Expression' field contains the following SQL code:

```
1 IF ( City_Code_Patient is missing )  
2 THEN ( median (City_Code_Patient ))  
3 ELSE ( City_Code_Patient )
```

The 'Components' list on the left includes: between, case, contains, currentMeasure, default, distinct, else, end, ends with, escape, for, for all, for any.

The 'Validation Results' section shows a green checkmark and the message: 'The expression is valid.'

At the bottom, there are 'Cancel' and 'OK' buttons.

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hospital_care_data

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Search content

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Edit calculation

NameBed Grade

Components

Expression

Search

Operators

Summaries

Constants

Constructs

if then else

in_range

search case

simple case

Business Dat...e Functions

Period Predicates

Vendor Specific Functions

Common Functions

Macro Functions

1 IF (Bed_Grade is missing)

2 THEN (median (Bed_Grade))

3 ELSE(Bed_Grade)

Validate

Validation Results

✓

The expression is valid.

Cancel

OK

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📊 Custom tables

↕	Department	Ward_Type	Ward_Facility_Code	Bed Grade	patientid	City_Code_Patient	Type of Admission	Severi
	radiotherapy	R	F	2	31397	7	Emergency	Extr
	radiotherapy	S	F	2	31397	7	Trauma	Extr
	anesthesia	S	E	2	31397	7	Trauma	Extr
	radiotherapy	R	D	2	31397	7	Trauma	Extr
	radiotherapy	S	D	2	31397	7	Trauma	Extr
	anesthesia	S	F	2	31397	7	Trauma	Extr
	radiotherapy	S	B	3	31397	7	Emergency	Extr
	radiotherapy	Q	F	3	31397	7	Trauma	Extr
	gynecology	R	B	4	31397	7	Trauma	Extr
	gynecology	S	E	3	31397	7	Trauma	Extr
	radiotherapy	S	B	2	31397	7	Urgent	Extr
	radiotherapy	R	D	1	31397	7	Urgent	Extr
	radiotherapy	R	A	3	31397	7	Emergency	Extr

Hospital Data :

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Grid

Relationships

Custom tables

↕	Row Id	case_id	Hospital_code	Hospital_type_code	City_Code_Hospital	Hospital_region_code	Available E...in Hospital	Depart
	1	1	8	c	3	Z	3	radic
	2	2	2	c	5	Z	2	radic
	3	3	10	e	1	X	2	anes
	4	4	26	b	2	Y	2	radic
	5	5	26	b	2	Y	2	radic
	6	6	23	a	6	X	2	anes
	7	7	32	f	9	Y	1	radic
	8	8	23	a	6	X	4	radic
	9	9	1	d	10	Y	2	gyne
	10	10	10	e	1	X	2	gyne
	11	11	22	g	9	Y	2	radic
	12	12	26	b	2	Y	4	radic
	13	13	16	c	3	Z	2	radic

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Grid

Relationships

Custom tables

↕	City_Code_Patient	Type of Admission	Severity of Illness	Visitors with Patient	Age	Admission_Deposit	Stay
	7	Emergency	Extreme	2	51-60	4911	0-10
	7	Trauma	Extreme	2	51-60	5954	41-50
	7	Trauma	Extreme	2	51-60	4745	31-40
	7	Trauma	Extreme	2	51-60	7272	41-50
	7	Trauma	Extreme	2	51-60	5558	41-50
	7	Trauma	Extreme	2	51-60	4449	11-20
	7	Emergency	Extreme	2	51-60	6167	0-10
	7	Trauma	Extreme	2	51-60	5571	41-50
	7	Trauma	Extreme	2	51-60	7223	51-60
	7	Trauma	Extreme	2	51-60	6056	31-40
	7	Urgent	Extreme	2	51-60	5797	21-30
	7	Urgent	Extreme	2	51-60	5993	11-20
	7	Emergency	Extreme	2	51-60	5141	0-10

Prepared data link :

https://us1.ca.analytics.ibm.com/bi/?perspective=ca-modeller&pathRef=.my_folders%2Fsprint%2B1

