

Project Development Phase

Delivery of Sprint-1

Date	29 OCT 2022
Team ID	PNT2022TMID06414
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_SFhUNdUKUdjkhT?usp=sharing

Load the Dataset:

Tool used: IBM Cognos Analytics

The screenshot shows the IBM Cognos Analytics with Watson dashboard. At the top, there is a navigation bar with the title "IBM Cognos Analytics with Watson", a search bar, and user profile icons. Below the navigation bar, a blue banner displays a maintenance message: "Maintenance: Scheduled maintenance completed. Click here for more details." To the right of this banner, a status bar indicates "Reading test_data.csv..." with "Cancel" and "Details" buttons. The main content area features a large welcome message: "Hello. Welcome to Cognos Analytics with Watson." Below this, it says "You can get started right away by taking a look at our introduction video, product tour and Getting Started tab." There are two buttons: "Watch video" and "Take a product tour". To the right of the text is a large, stylized graphic of blue cubes and a server rack. Below the main content area, there is a "Quick launch" section with four tiles: "Upload data" (with an upload icon), "Prepare data" (with a data module icon), "Exploration" (with a magnifying glass icon), and "Present data" (with a dashboard icon). Each tile has a brief description of its function.

IBM Cognos Analytics with Watson

Maintenance: Scheduled maintenance completed. Click here for more details.

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 data.

Prepare data
Use data modules to clean and connect data from multiple sources.

Exploration
Quickly find unbiased answers by identifying trends in your data with data exploration.

Present data
Create sophisticated, multi-page, multi-query dashboards, reports, and more.

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 :

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hospital_care_data

312

Search content

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Edit calculation

NameCity_Code_Patient

Components

Search

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contains
currentMeasure
default
distinct
else
end
ends with
escape
for
for all
for any

Expression

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

Validation Results

✔ The expression is valid.

Cancel

OK

test_data.csv

IBM Cognos Analytics with Watson

hospital_care_data

312

Search content

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Edit calculation

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Name

Bed Grade

Components

Expression

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🔍 Search

▶ Operators

▶ Summaries

▶ Constants

▼ Constructs

if then else

in_range

search case

simple case

▶ Business Data 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

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✔ The expression is valid.

Cancel

OK

test_data.csv

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🔗 Relationships

📄 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 :

IBM Cognos Analytics with Watson

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Search content

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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	radio
2	2	2	c	5	Z	2	radio
3	3	10	e	1	X	2	anes
4	4	26	b	2	Y	2	radio
5	5	26	b	2	Y	2	radio
6	6	23	a	6	X	2	anes
7	7	32	f	9	Y	1	radio
8	8	23	a	6	X	4	radio
9	9	1	d	10	Y	2	gyne
10	10	10	e	1	X	2	gyne
11	11	22	g	9	Y	2	radio
12	12	26	b	2	Y	4	radio
13	13	16	c	3	Z	2	radio

Data ...dule

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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

