

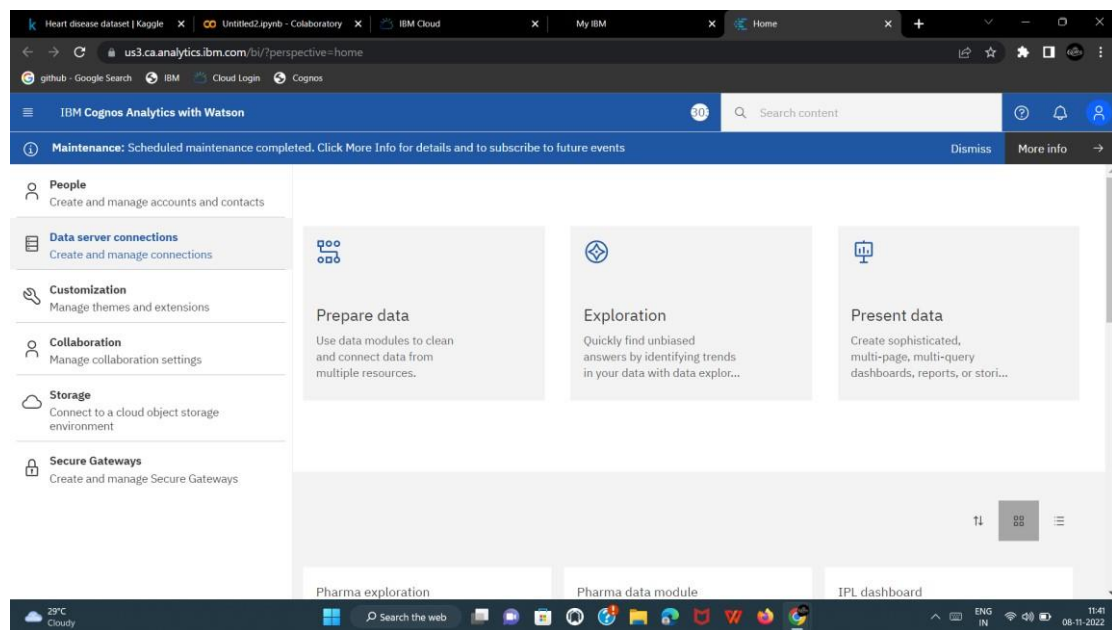
PROJECT DEVELOPMENT PHASE

Delivery of Sprint - 1

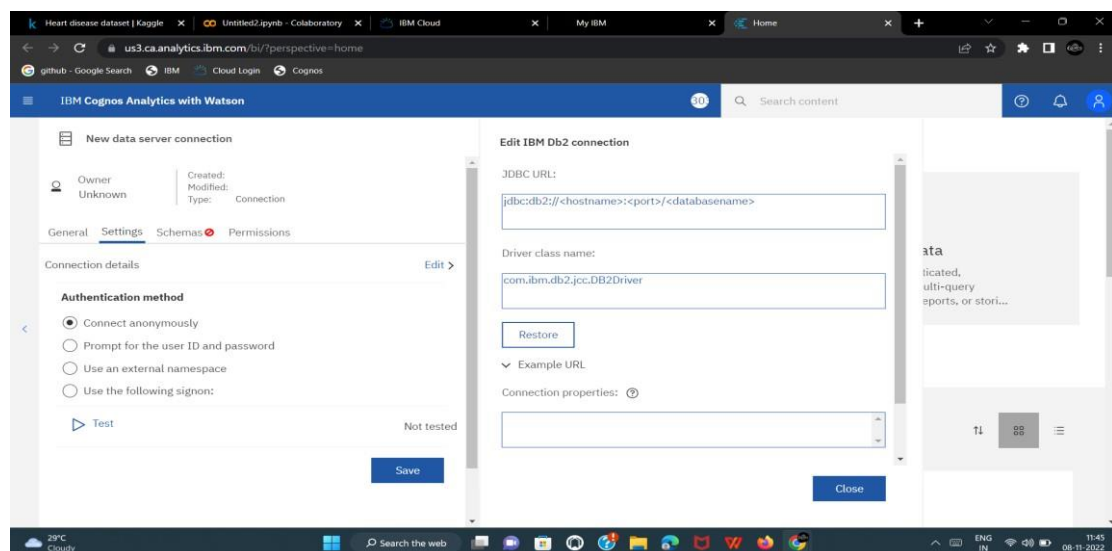
Team ID	PNT2022TMID10901
Project Name	VISUALIZING AND PREDICTING HEART DISEASE WITH AN INTERACTIVE DASH BOARD.

IBM DB2 service creation and DB2 connectivity with cognos:

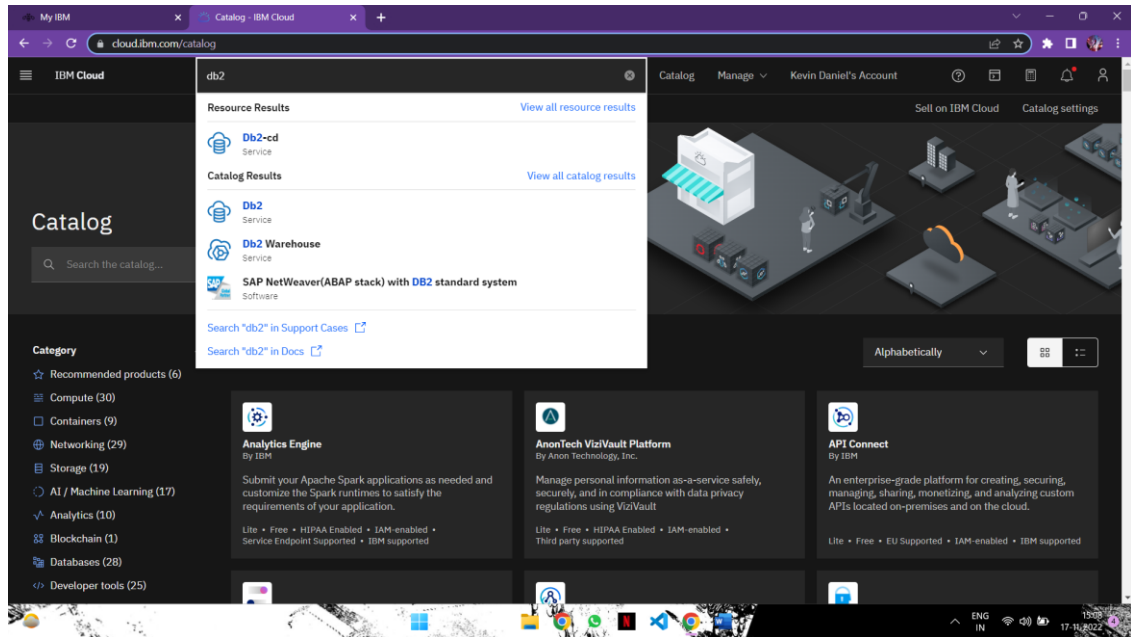
Step 1: In cognos we have to perform data server connections.



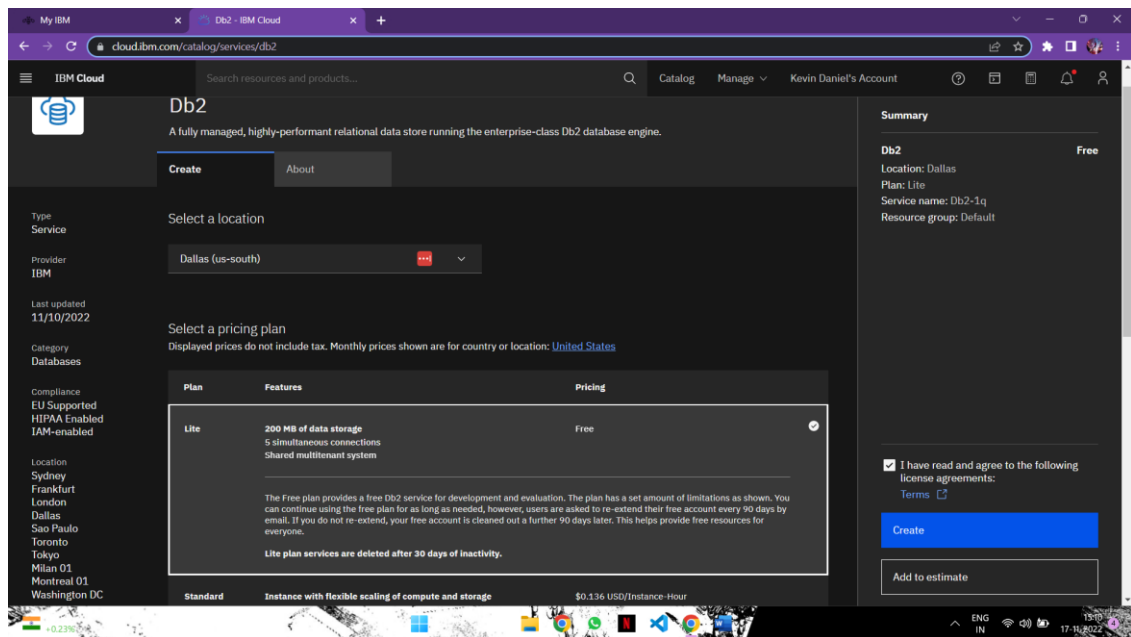
STEP 2: Connection of New Data Server



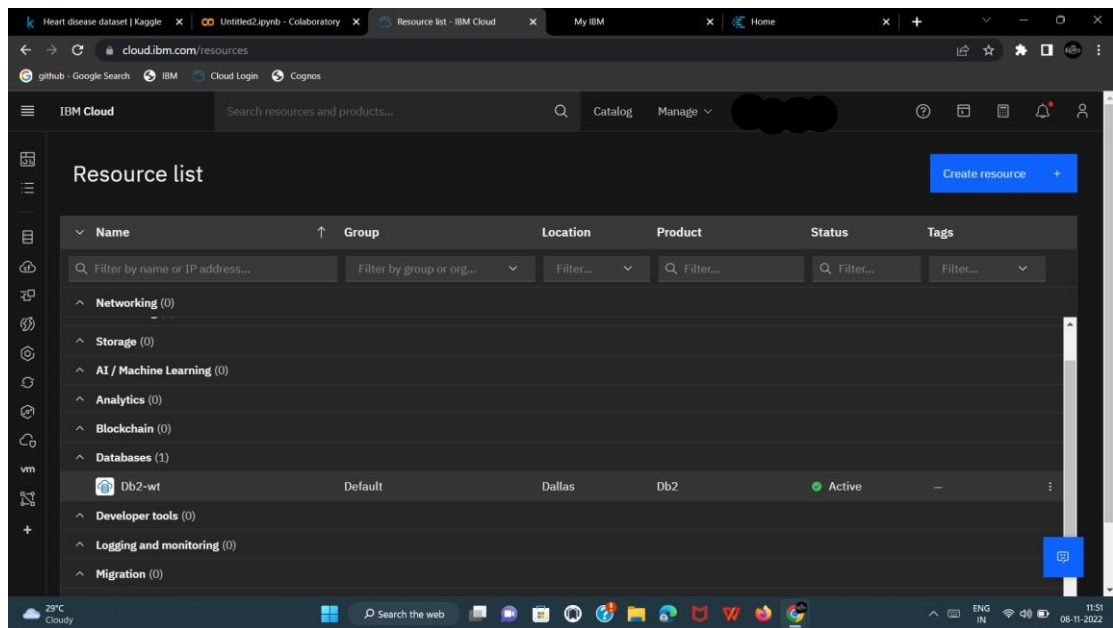
STEP 3: In IBM cloud go to catalog and search for db2.



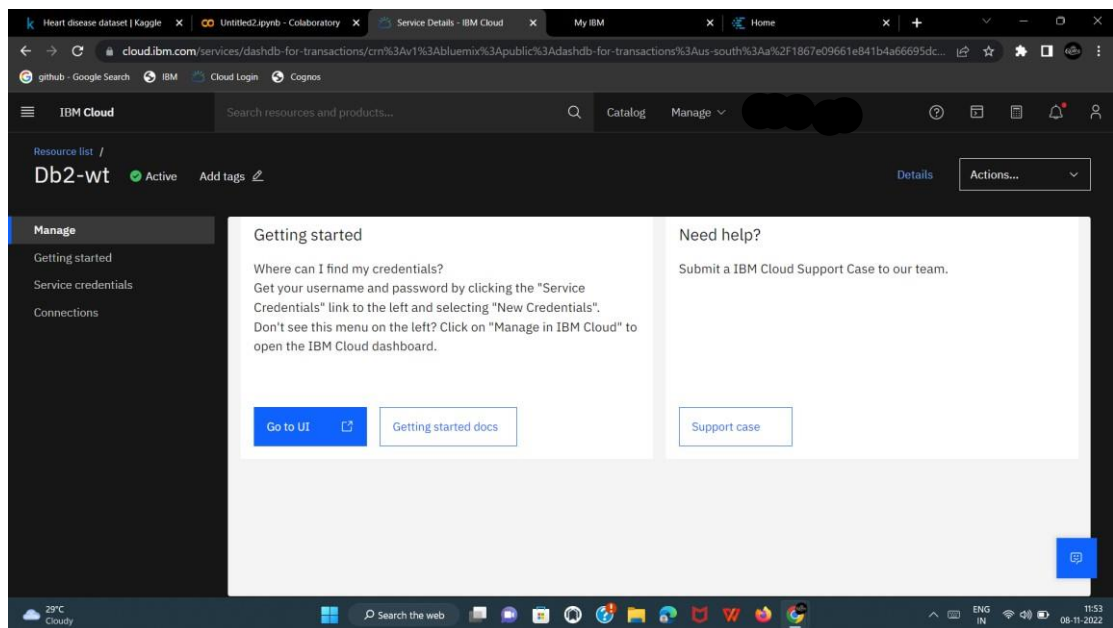
STEP 4: Create a new db2 connection.



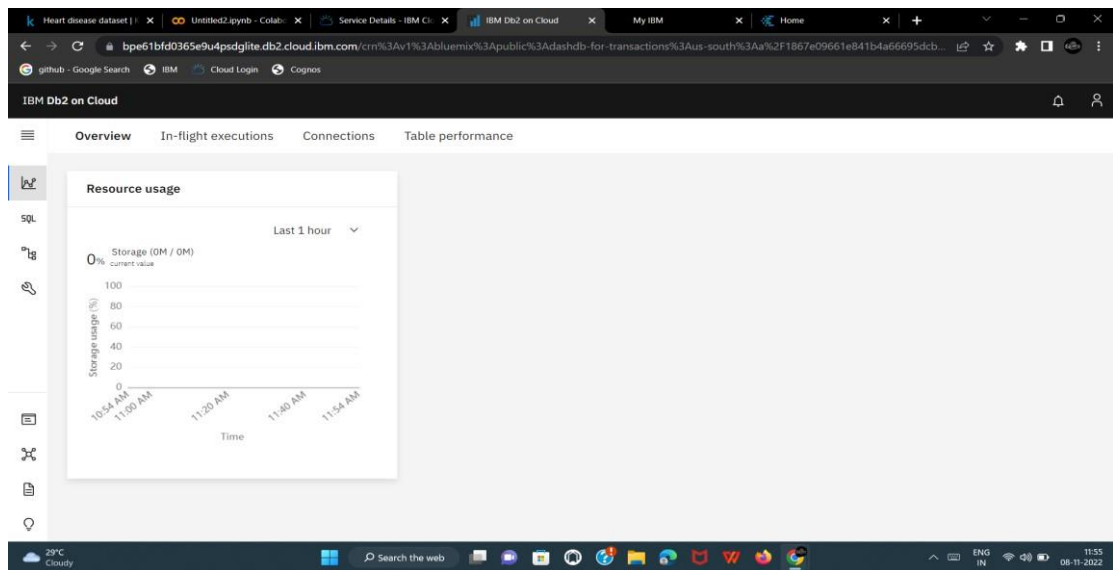
STEP 5: From the resource list select database as Db2.



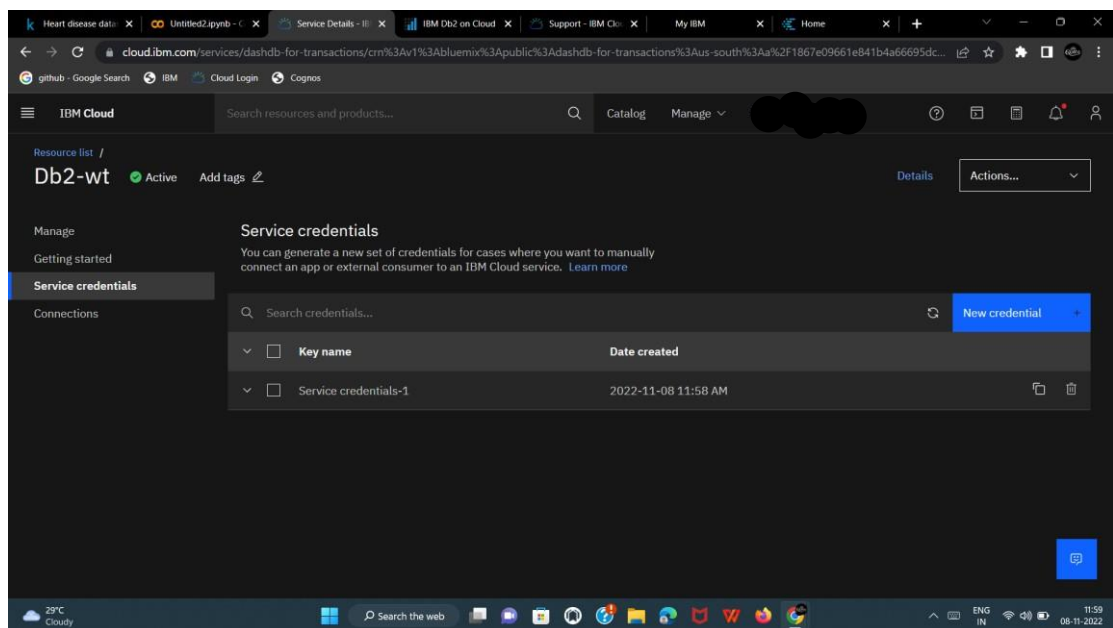
STEP 6: Click on Go to UI to know resource usage.



STEP 7: Resource usage of IBM Db2 on cloud.



STEP 8: Creation of new Service Credential.

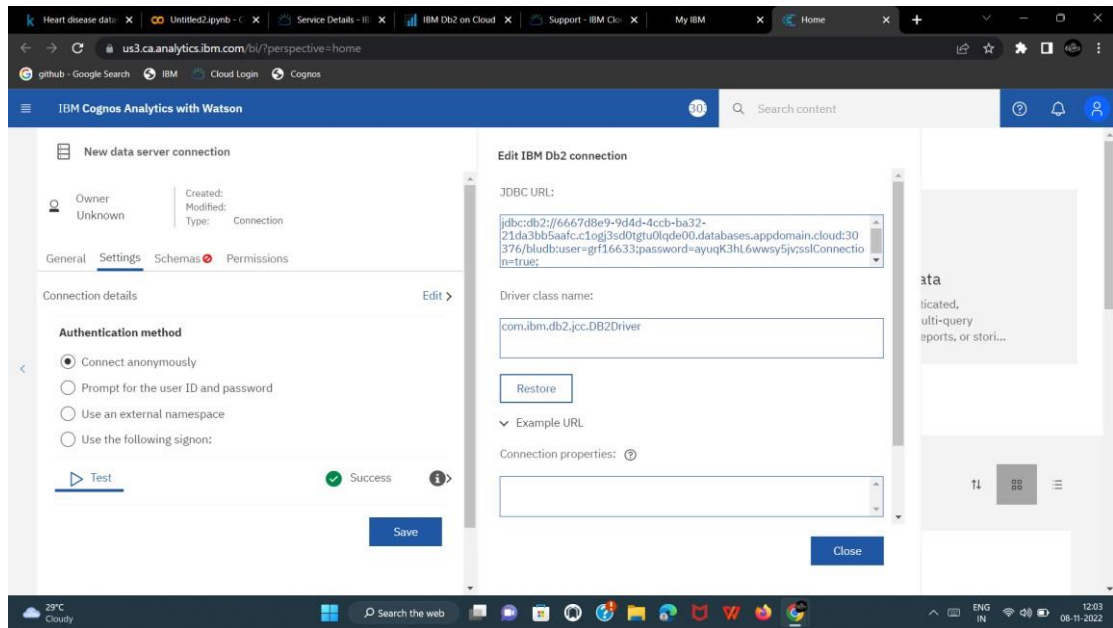


STEP 9: Copy the JDBC url from the created service credential in IBM Cloud.

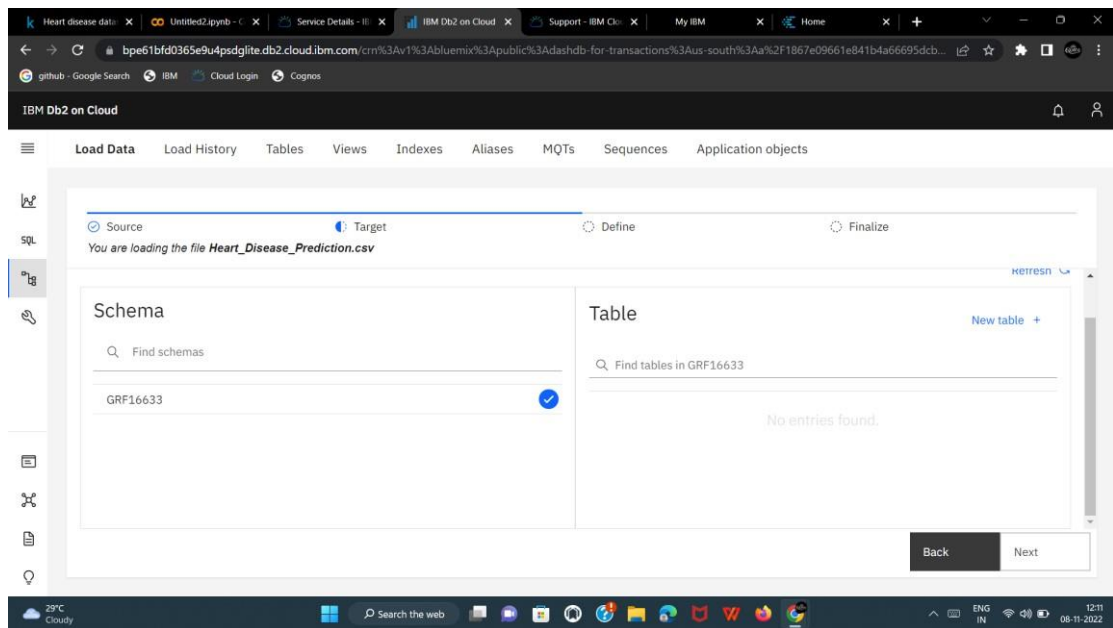
The screenshot shows the IBM Cloud console interface. The main content area displays a JSON configuration for a database connection. The configuration includes a name, a composed object with a db2 user, environment, and type, and a db2 object with authentication and certificate details. The status bar at the bottom indicates a successful connection.

```
FJMOjVHSW5B8J1JySWNkwoZMwXNnB4ZtTt0pLYIhWcnBnMXJ3QZKnyJdIYUNYhWME42K0J1BzhVWGSYMKH6U61cIdY518oaGdXZ2
J5CKNDcdIK8MNNnQ1efg3B85NS3VNSUNQVZndnNLNnrQeTQ5VMSINVZZBHQB1J3dTF1BgdzRDNjek1tbtJLREKQNH1REFVYTYMkt
ZZE4xVkuX3F3VG1t01TU05RPT9KLS01LS1FtQg0WVSVEJGSUNBVEuTL50tLQo=",
  "name": "1cbbb1b6-3a1a-4d49-9262-3102a8f7a7c8"
},
{
  "composed": [
    {
      "db2": {
        "method": "direct",
        "password": "ayugK3h16wswy5jv",
        "username": "grf16633"
      },
      "certificate": {
        "certificate_base64": "LS0tLS1CRUdJTiB0RVJUSUZJQ0FURS0tLS0tCk1JSURFakNDQWZxZ0F3SUJBZ0lKQVA1S0R3ZT
NCTkx1TUEwR0t0c0dTSWlZRFFFQkN3VUFNbjR4SERBYUJnTlYKQkFNTUwBNUU0JEYkc5MVP0QkVWFJomW1GeIpY1XdIaGN0TWpBd01
qSTVNRFF5TVRBeVdoY05NeKf3TwpJGpNRFF5TVRBeVdqQWVWU0ND3R2dRFRZRUUREQK5KUWswZ1EYhZKv1FnUkdGNF1XSahJm1Z6TUIJ
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UJvMU13C1VUQWRCZ05WSF8RUZnUVV1Q3J3ZanFJQzc1VUpXVmZEMdh1ZwdqDZiUmN3SdRFRZSMGpCQnd3Rm9BWWdc1kKanFJQzc1VU
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U28xZUVPekIYmE251YrQTVscEttMkdjV3VHYzMKK1UzVTFzTd1Ujd3ZFFuVjU0TVU4aERvN19sVHRMRVB2Mnc3V1NPS1FDK013eJgrT
"
```

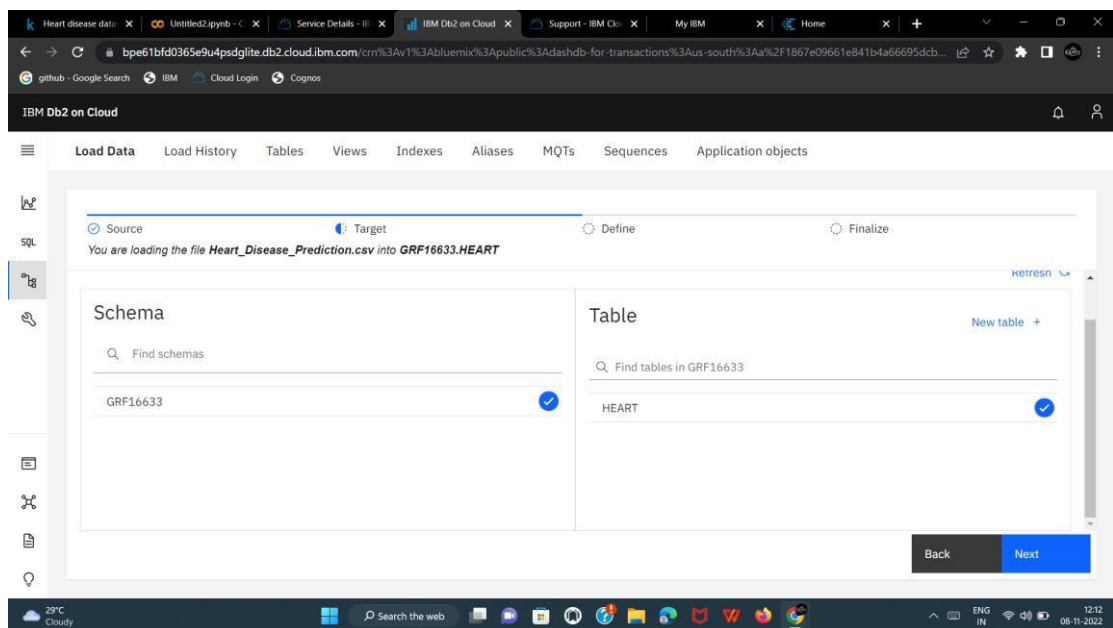
STEP 11: Data Server Connection is created successfully.



STEP 12: In IBM Db2 Select a schema and create a table.



STEP 13: Schema and table has been created.



STEP 14: The creation of table is shown below:

Source Target Define Finalize

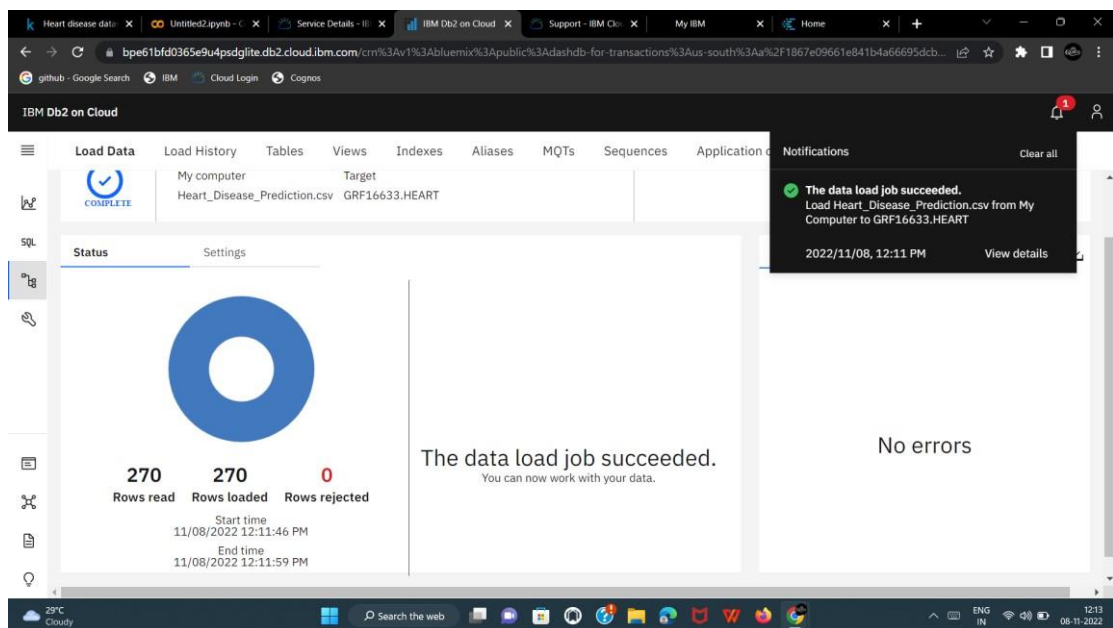
You are loading the file **Heart_Disease_Prediction.csv** into **GRF16633.HEART**

Code page (character encoding): 1208 (UTF-8) Separator: Header in first row: Time & date format: Detect data types:

	AGE SMALLINT	SEX SMALLINT	CHEST_PAIN_TYPE SMALLINT	BP SMALLINT	CHOLESTEROL SMALLINT	FBS_OVER_120 SMALLINT	EKG_RESULTS SMALLINT	MAX_HR SMALLINT
1	70	1	4	130	322	0	2	109
2	67	0	3	115	564	0	2	160
3	57	1	2	124	261	0	0	141
4	64	1	4	128	263	0	0	105
5	74	0	2	120	269	0	2	121
6	65	1	4	120	177	0	0	140
7	56	1	3	130	256	1	2	142
8	50	1	4	110	220	0	2	142

Back Next

STEP 15: The data has been loaded successfully in Db2.



STEP 16: The below table represents the data present in our Dataset.

GRF16633.HEART

	AGE SMALLINT	SEX SMALLINT	CHEST_PAIN_T... SMALLINT	BP SMALLINT	CHOLESTEROL SMALLINT	FBS_OVER_120 SMALLINT	EKG_RESULTS SMALLINT	MAX_HR SMALLINT	EXERCISE_AN... SMALLINT
1	29	1	2	130	204	0	2	202	0
2	34	0	2	118	210	0	0	192	0
3	34	1	1	118	182	0	2	174	0
4	35	1	4	120	198	0	0	130	1
5	35	0	4	138	183	0	0	182	0
6	35	1	4	126	282	0	2	156	1
7	37	0	3	120	215	0	0	170	0
8	37	1	3	130	250	0	0	187	0

STEP 17: Loading of metadata and successfully loaded data in cognos by server connection.

Heart Disease Prediction

Owner: Rajasri (... 3244f6)

Created: 08/11/2022, 12:33 AM
Modified: 08/11/2022, 12:33 AM
Type: Data Server

General Connections Permissions

Name	Modified
Heart Disease Prediction	08/11/2022 12:33 AM

Heart Disease Prediction

General Settings Schemas Permissions

Status	Schema name	Tables loaded
<input type="radio"/>	ERRORSCHEMA	
<input checked="" type="radio"/>	GRF16633	1 / 1
<input type="radio"/>	HEALTHMETRICS	
<input type="radio"/>	IBMADT	
<input type="radio"/>	IBMCONSOLE	
<input type="radio"/>	IBMOTS	

Show system schemas

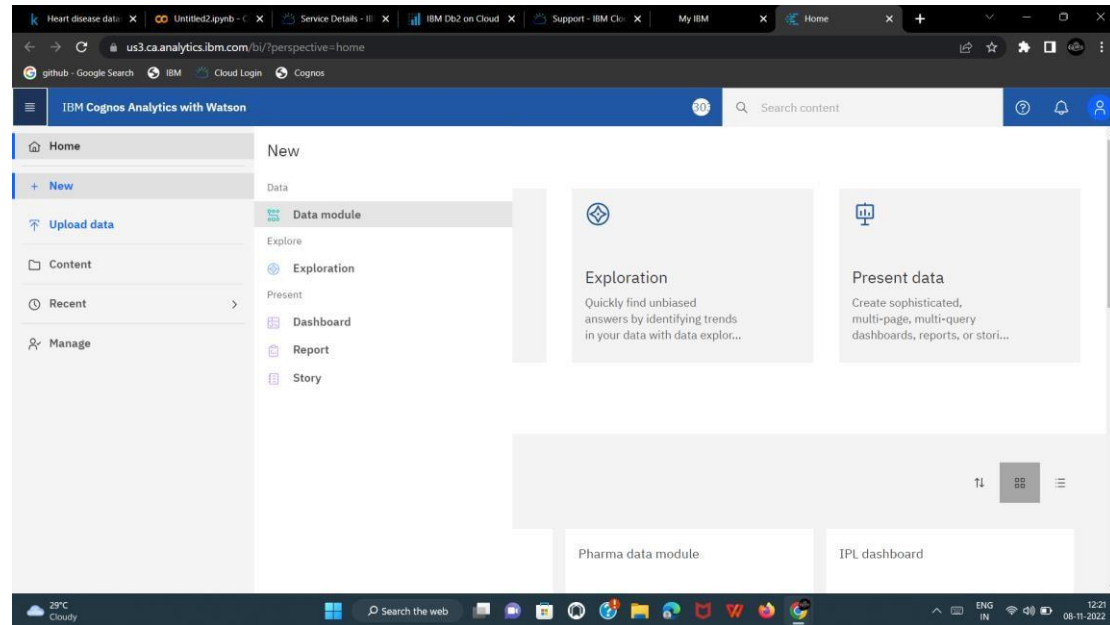
Present data

Create sophisticated, multi-page, multi-query dashboards, reports, or stori...

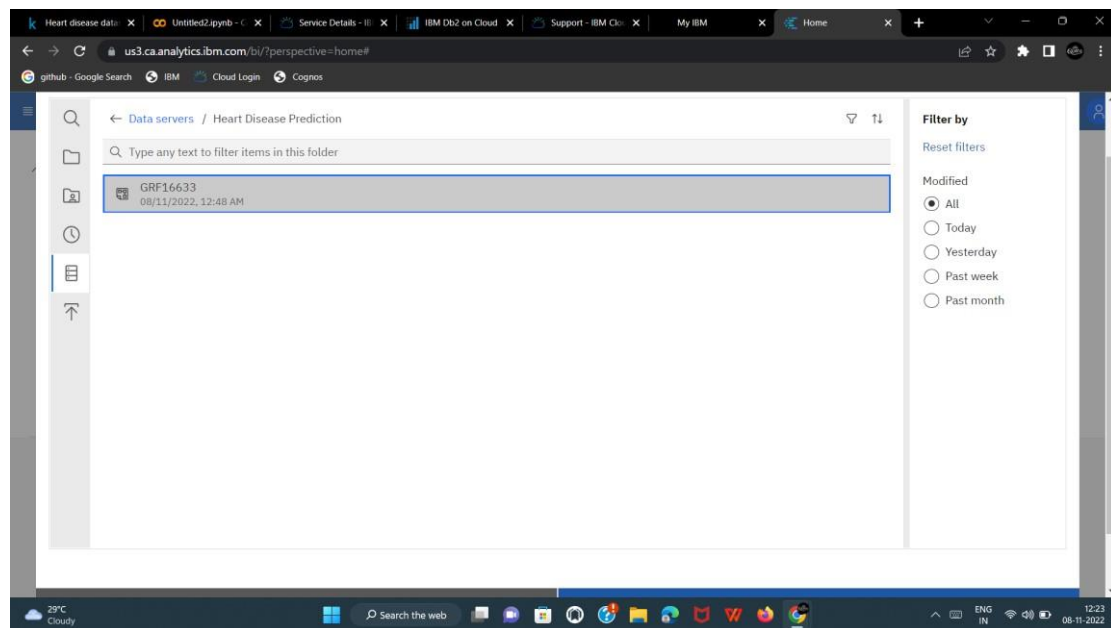
IPL dashboard

Creation of Data Module:

STEP 1: Creation of Data Module.



STEP 2: Choosing of dataset in data server connection in cognos.



STEP 3: Data Module is created successfully.

The screenshot shows the IBM Cognos Analytics interface. On the left, a 'Data module' sidebar lists various attributes: Age, Sex, Chest Pain Type, Bp, Cholesterol, Fbs Over 120, EKG Results, Max Hr, Exercise Angina, St Depression, and Slope Of St. The main area displays a 'Grid' view of a data table with 10 rows and 7 columns.

Age	Sex	Chest Pain Type	Bp	Cholesterol	Fbs Over 120
70	1	4	130	322	0
67	0	3	115	564	0
57	1	2	124	261	0
64	1	4	128	263	0
74	0	2	120	269	0
65	1	4	120	177	0
56	1	3	130	256	1
59	1	4	110	239	0
60	1	4	140	293	0
63	0	4	150	407	0

STEP 4: Save the Data Module in My content.

The screenshot shows the 'Save as' dialog box in IBM Cognos Analytics. The 'Selected destination' is 'My content'. The dialog lists existing items in the workspace:

Name	Type	Last Accessed
Assignment 2	Folder	25/09/2022, 2:20 AM
Data module	Folder	25/09/2022, 12:41 AM
50_startups.csv	Uploaded file	13/09/2022, 8:30 AM
Assignment 1	Exploration	13/09/2022, 9:01 AM
IPL Ball-by-Ball 2008-2020.csv	Uploaded file	13/09/2022, 4:38 AM

Buttons for 'Cancel' and 'Save' are visible at the bottom of the dialog.

STEP 5: Representation of data module with the datum present in Heart Disease Prediction.

My IBM | Heart Disease Prediction Data Module | us3.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=IE08D4F2300164F7C834588101C96D319&objRef=IE08D4F2300164F7C834588101C96D319&tid=334324... | IBM Cognos Analytics with Watson | Heart Disease Pr ... Data Module | Search content | Properties

Data module | Grid | Relationships | Custom tables

Search

Heart Diseases...Data Module

Navigation paths

Heart

- Age
- Sex
- Chest Pain Type
- Bp
- Cholesterol
- Fbs Over 120
- EKG Results
- Max Hr
- Exercise Angina
- St Depression
- Slope Of St

Age	Sex	Chest Pain Type	Bp	Cholesterol	Fbs Over 120
70	1	4	130	322	0
67	0	3	115	564	0
57	1	2	124	261	0
64	1	4	128	263	0
74	0	2	120	269	0
65	1	4	120	177	0
56	1	3	130	256	1
59	1	4	110	239	0
60	1	4	140	293	0
63	0	4	150	407	0
69	1	4	135	234	0

Search the web | ENG IN | 19:02 | 09-11-2022