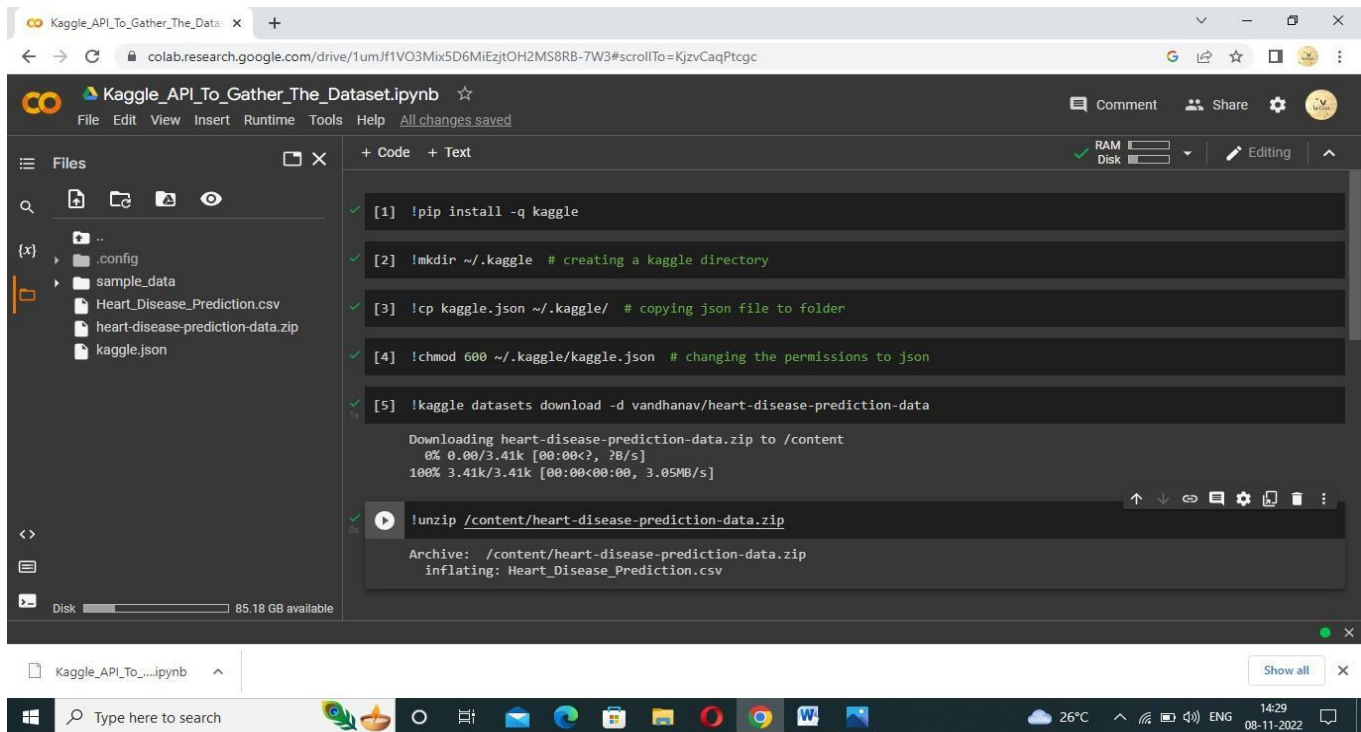


FETCH DATA FROM EXTERNAL API (KAGGLE API)



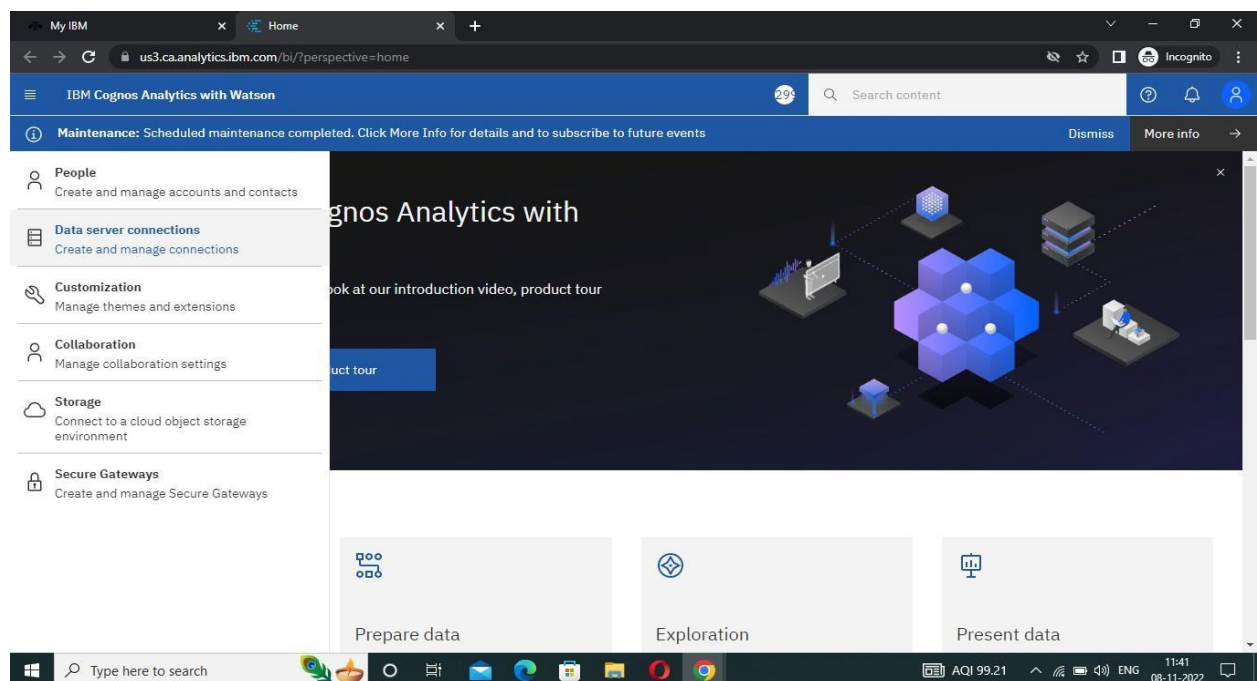
```
[1] !pip install -q kaggle
[2] !mkdir ~/.kaggle # creating a kaggle directory
[3] !cp kaggle.json ~/.kaggle/ # copying json file to folder
[4] !chmod 600 ~/.kaggle/kaggle.json # changing the permissions to json
[5] !kaggle datasets download -d vandhanav/heart-disease-prediction-data

Downloading heart-disease-prediction-data.zip to /content
0% 0.00/3.41k [00:00<?, ?B/s]
100% 3.41k/3.41k [00:00<00:00, 3.05MB/s]

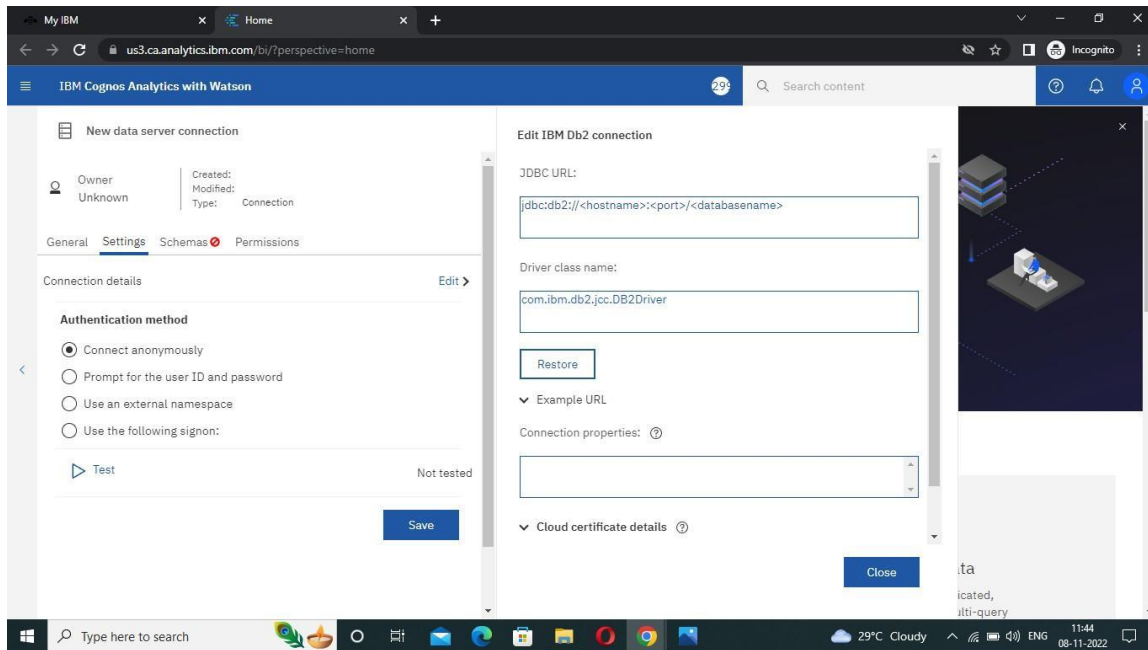
!unzip /content/heart-disease-prediction-data.zip
Archive: /content/heart-disease-prediction-data.zip
  inflating: Heart_Disease_Prediction.csv
```

IBM DB2 SERVICE CREATION AND DB2 CONNECTIVITY WITH COGNOS:

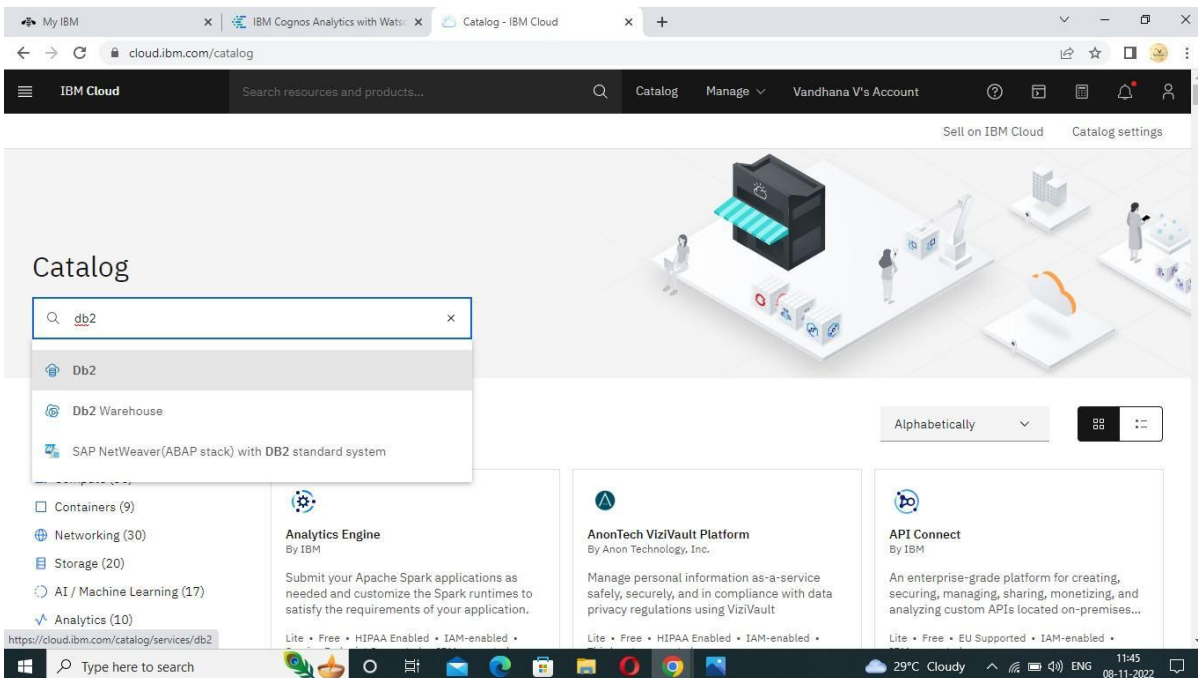
STEP 1: IN COGNOS WE HAVE TO PERFORM DATA SERVER CONNECTIONS



STEP 2: CONNECTION OF NEW DATA SERVER



Step 3: In IBM Cloud go to catalog search for db2.



STEP 4: CREATE A NEW DB2 SERVICE CONNECTION

The screenshot shows the IBM Cloud console interface for creating a new Db2 service. The browser tabs include 'My IBM', 'IBM Cognos Analytics with Watson', and 'Db2 - IBM Cloud'. The URL is 'cloud.ibm.com/catalog/services/db2'. The page title is 'A fully managed, highly-performant relational data store running the enterprise-class Db2 database engine.' The 'Create' tab is selected, and the 'About' tab is also visible. The 'Type' is 'Service' and the 'Provider' is 'IBM'. The 'Location' is set to 'Dallas (us-south)'. The 'Pricing plan' is 'Lite'. The 'Summary' panel on the right shows 'Db2' as the service, 'Free' as the plan, and 'Dallas' as the location. The 'Service name' is 'Db2-m7' and the 'Resource group' is 'Default'. A checkbox indicates 'I have read and agree to the following license agreements:'. The 'Create' button is highlighted in blue. The 'Add to estimate' button is also visible.

IBM Cloud

Search resources and products...

Catalog Manage Vandhana V's Account

A fully managed, highly-performant relational data store running the enterprise-class Db2 database engine.

Create About

Type Service

Provider IBM

Last updated 07/06/2022

Category Databases

Compliance EU Supported HIPAA Enabled IAM-enabled

Location Sydney Frankfurt London Dallas Sao Paulo Toronto Tokyo Milan 01

Select a location

Dallas (us-south)

Select a pricing plan

Displayed prices do not include tax. Monthly prices shown are for country or location: [United States](#)

Plan	Features	Pricing
Lite	200 MB of data storage 5 simultaneous connections Shared multitenant system	Free

The Free plan provides a free Db2 service for development and evaluation. The plan has a set amount of limitations as shown. You can continue using the free plan for as long as needed, however, users are asked to re-extend their free account every 90 days by email. If you do not re-extend, your free account is cleaned out a further 90 days later. This helps provide free resources for everyone.

Lite plan services are deleted after 30 days of inactivity.

Summary

Db2 Free

Location: Dallas

Plan: Lite

Service name: Db2-m7

Resource group: Default

☒ I have read and agree to the following license agreements: [Terms](#)

Create

Add to estimate

Step 5: From the Resource list select databases as Db2.

The screenshot shows the IBM Cloud console interface for the Resource list. The browser tabs include 'My IBM', 'IBM Cognos Analytics with Watson', and 'Resource list - IBM Cloud'. The URL is 'cloud.ibm.com/resources'. The page title is 'Resource list'. The 'Create resource' button is highlighted in blue. The table lists various resource categories and their counts. The 'Databases' category is expanded, showing a single resource: 'Db2-m7'. The resource is in the 'Default' group, located in 'Dallas', and is 'Active'.

IBM Cloud

Search resources and products...

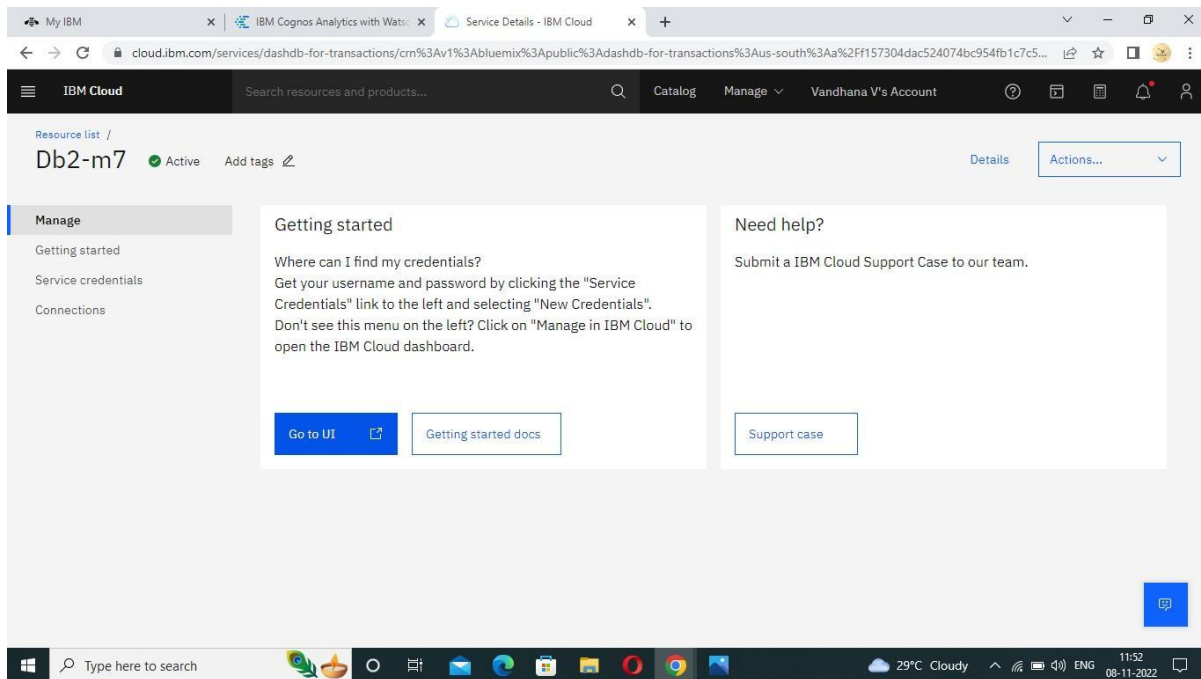
Catalog Manage Vandhana V's Account

Resource list

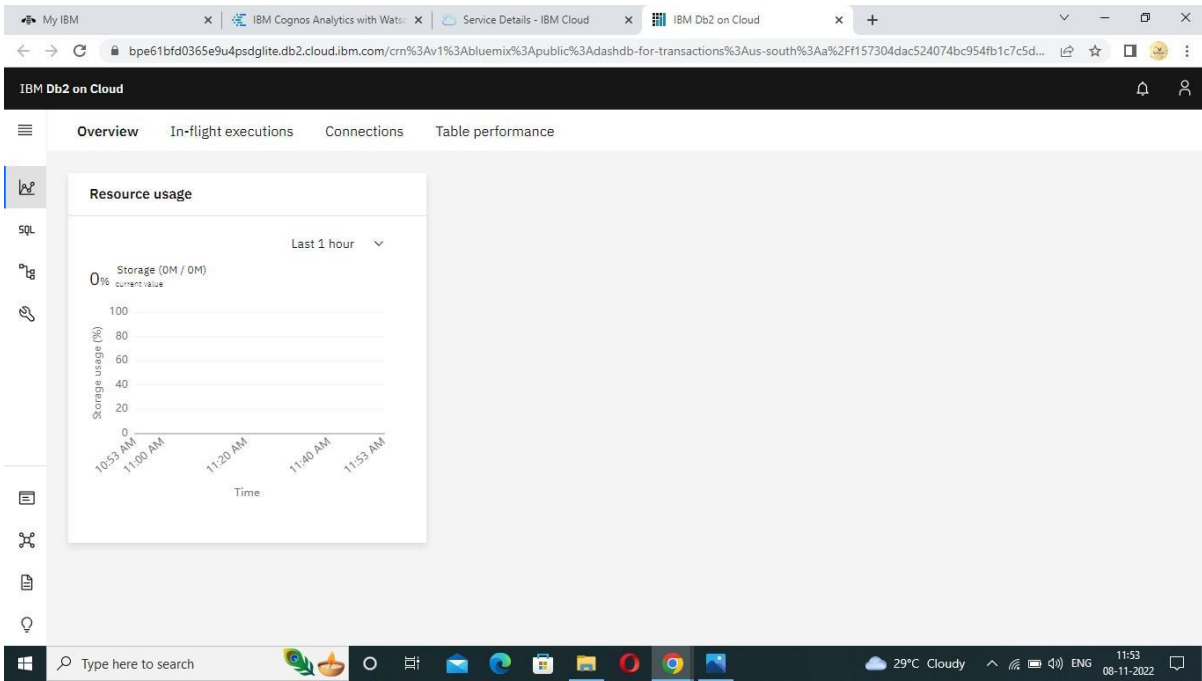
Create resource +

Name	Group	Location	Product	Status	Tags
Compute (0)					
Containers (0)					
Networking (0)					
Storage (0)					
AI / Machine Learning (0)					
Analytics (0)					
Blockchain (0)					
Databases (1)					
Db2-m7	Default	Dallas	Db2	Active	
Developer tools (0)					
Logging and monitoring (0)					

Step 6: Click on goto UI to know resource usage.



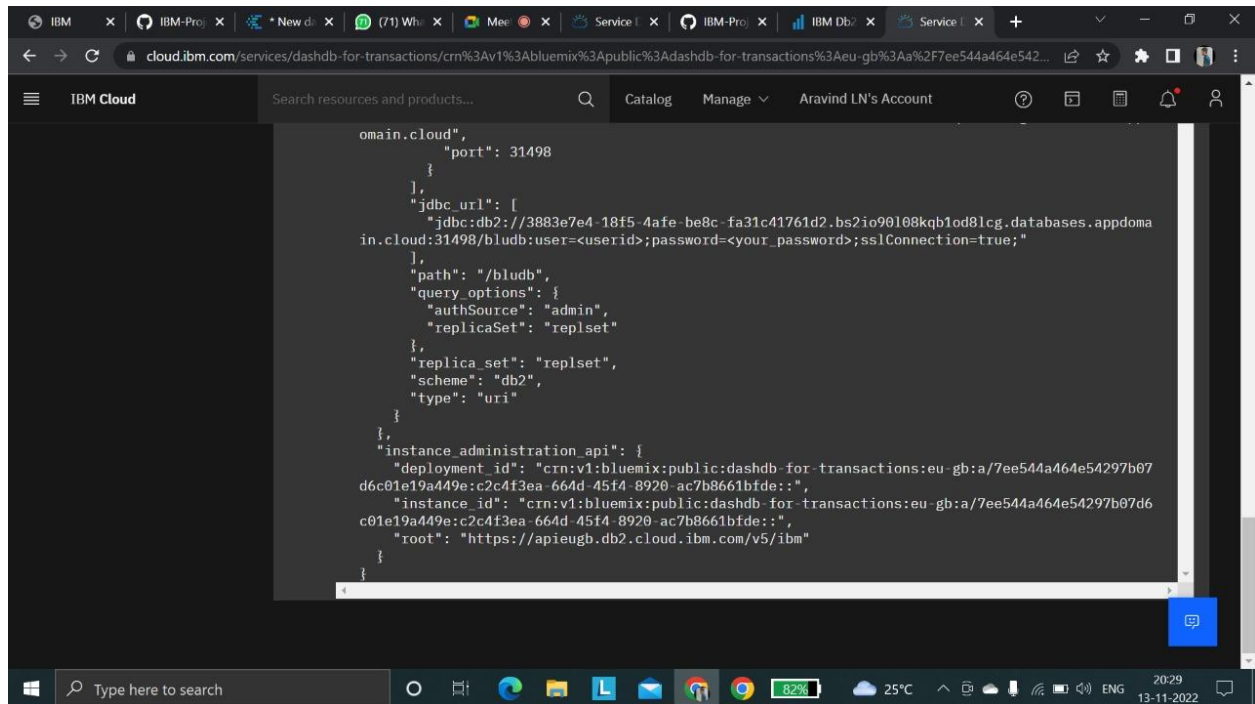
Step 7: Resource Usage of IBM Db2 on Cloud.



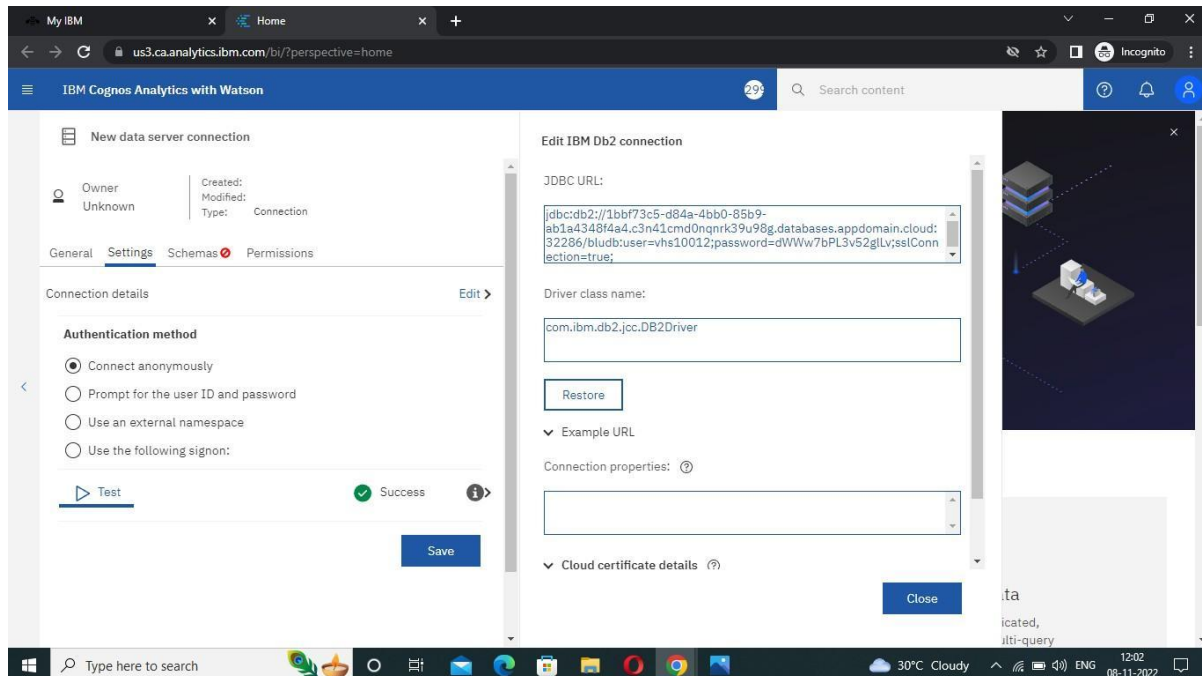
The screenshot shows the IBM Cloud console. The top navigation bar includes tabs for 'My IBM', 'IBM Cognos Analytics with Watson', 'Service Details - IBM Cloud', and 'IBM Db2 on Cloud'. The main header displays the instance ID: 'cloud.ibm.com/services/dashdb-for-transactions/crn%3Av1%3Abluemix%3Apublic%3Adashdb-for-transactions%3Aus-south%3Aa%2Ff157304dac524074bc954fb1c7c5...'. The left sidebar contains icons for Resource list, Manage, Getting started, Service credentials, and Connections. The main content area is titled 'Service credentials' and shows a table of credentials. The table has columns for 'Key name' and 'Date created'. There is one credential listed: 'Service credentials-1' created on '2022-11-08 11:58 AM'. A 'New credential' button is visible in the top right corner of the table.

Key name	Date created
Service credentials-1	2022-11-08 11:58 AM

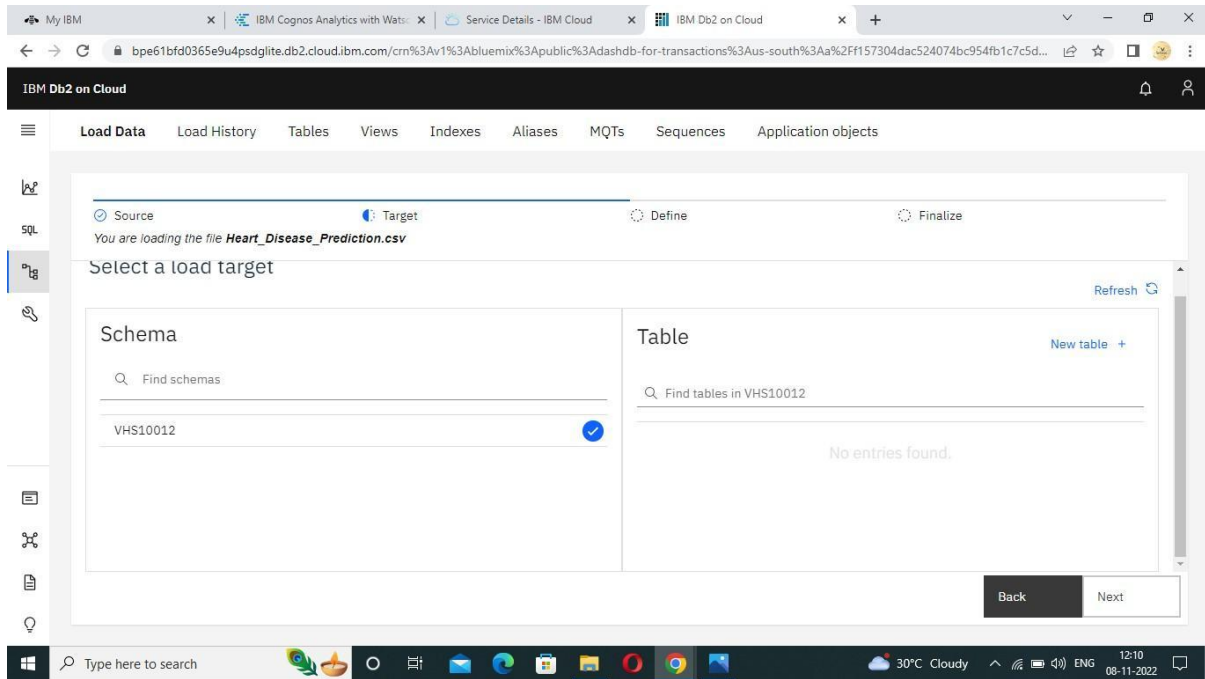
Step 9: Copy the jdbc url from the created service credential in IBM Cloud. Connection.



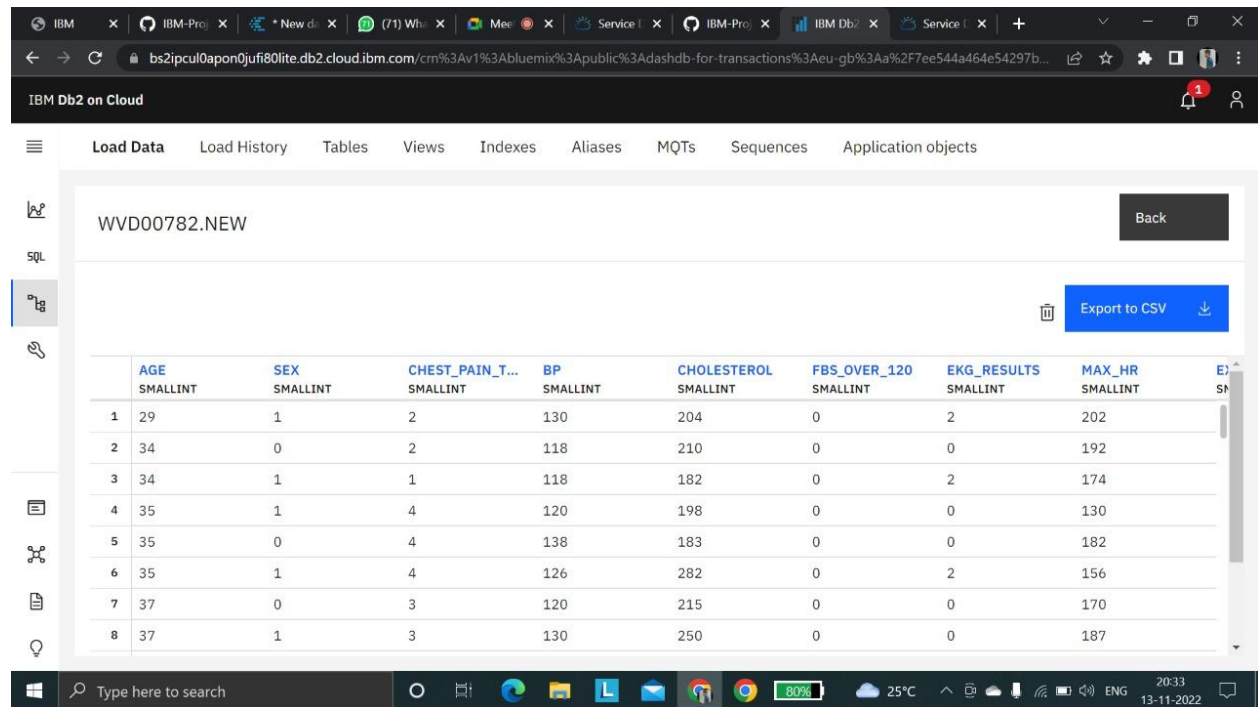
STEP 10: DATA SERVER CONNECTION IS CREATED SUCCESSFULLY



Step 11: In IBM Db2 Select a schema and create a table.



Step 12: It shows the creation of table.



STEP 13: LOADING THE METADATA AND SUCCESSFULLY LOADED DATA IN COGNOS BY SERVER CONNECTION

IBM Cognos Analytics with Watson

heart disease prediction

Owner: Aravin ... 0640f0

Created: 11/13/2022, 8:57 AM
Modified: 11/13/2022, 8:57 AM
Type: Data Server

General Connections Permissions

Name Modified

heart disease prediction 11/13/2022 8:57 AM

General Settings Schemas Permissions

Status	Schema name	Tables loaded
<input type="radio"/>	IBM_RTMON_BASELINE	
<input type="radio"/>	IBM_RTMON_DATA	
<input type="radio"/>	IBM_RTMON_EVMON	
<input type="radio"/>	IBM_RTMON_METADATA	
<input type="radio"/>	PROCMGMT	
<input type="radio"/>	ST_INFORMTN_SCHEMA	
<input checked="" type="radio"/>	WVD00782	1 / 1

Show system schemas

CREATION OF DATA MODULE

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

Step 1: creation of Data Module.

My IBM

Home

us3.ca.analytics.ibm.com/bi/?perspective=home

IBM Cognos Analytics with Watson

Home

New

Upload data

Content

Recent

Manage

New

Data

Data module

Explore

Exploration

Present

Dashboard

Report

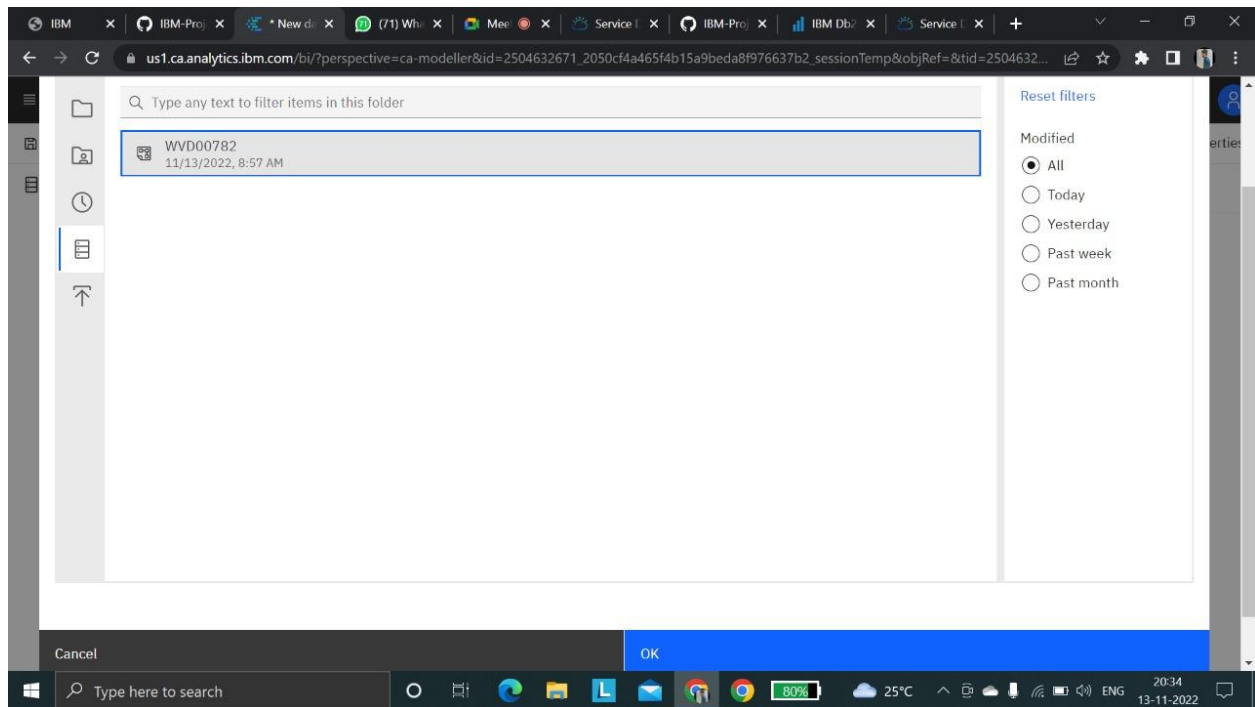
Story

Exploration

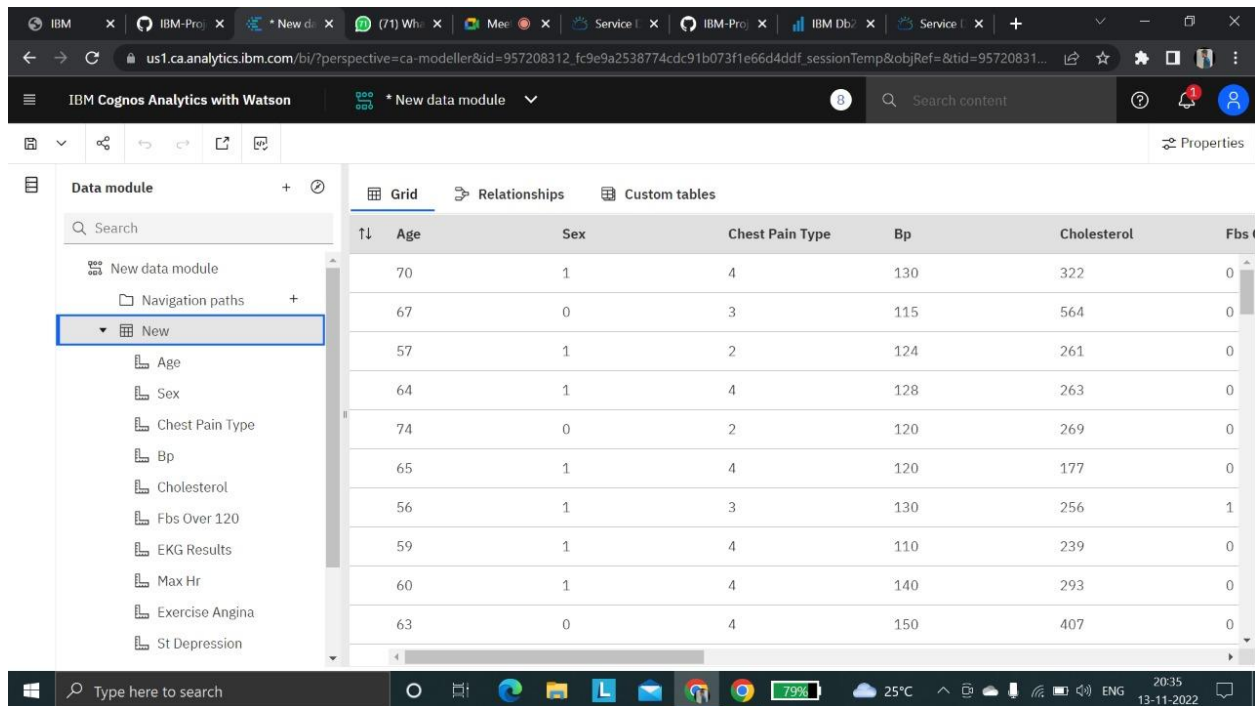
Quickly find unbiased answers by identifying trends

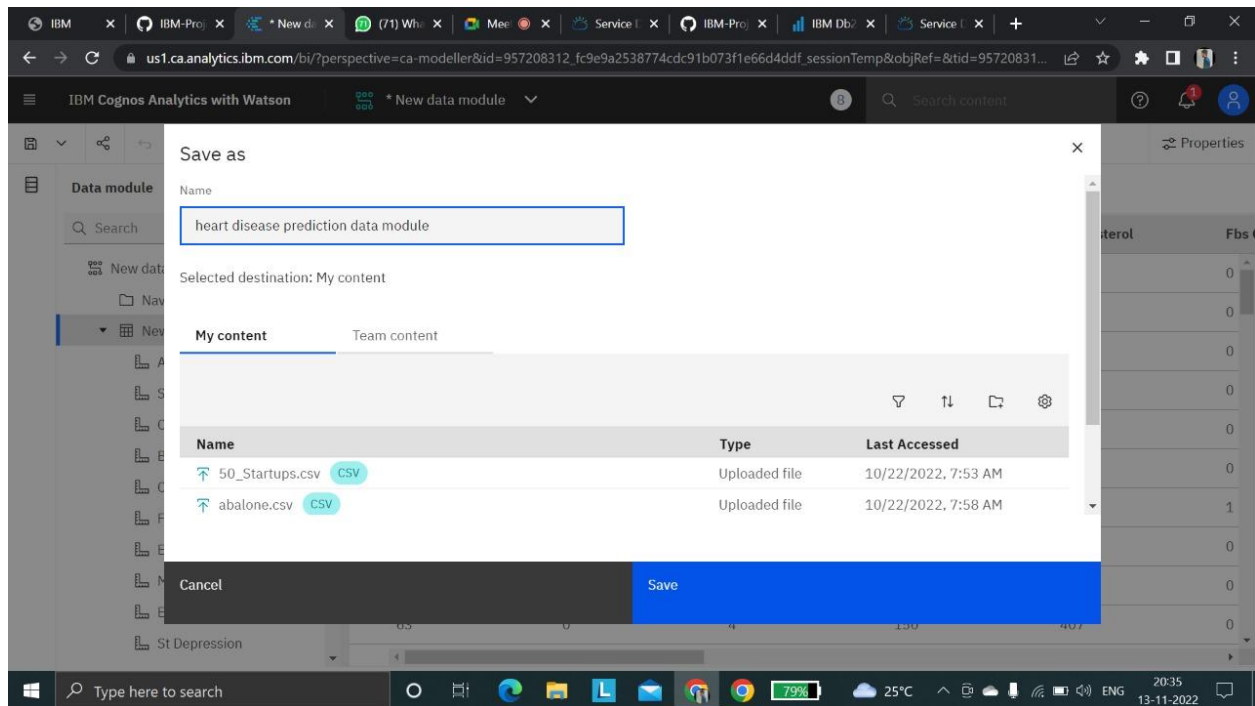
Present data

Create sophisticated, multi-page, multi-query



Step 3: Data Module is created successfully.





Step 5: Representation of data module with data for heart disease prediction.

