

IBM PROJECT
SPRINT 1
(Team ID PNT2022TMID33028)

CONTENTS

1. Phase-1

- Fetching Data from external API
- Kaggle API
- Verifying Kaggle in Google Colab

2. Phase-2

- Logging into Cognos and IB DB2 service creation
- Logging into Cloud and IBDB2
- Connecting DB2 with cognos

PHASE-1

a) Fetching Data from External API

The screenshot shows the Kaggle Account page. The left sidebar contains navigation links: Home, Competitions, Datasets, Code, Discussions, Learn, More, Your Work, and View Active Events. The main content area has a search bar and a navigation bar with links to Home, Competitions, Datasets, Code, Discussion, Followers, Notifications, and Account. A green banner at the top states: "Ensure kaggle.json is in the location ~/.kaggle/kaggle.json to use the API." Below this, there are sections for Email Preferences and API. The API section includes a note about using Kaggle's beta API and buttons for "Create New API Token" and "Expire API Token". A table shows the quota for Private Data (1.36 MB / 107.37 GB), GPU (00:00 / 33 hrs), and TPU (00:00 / 20 hrs). The bottom status bar shows two files: kaggle (2).json and kaggle (1).json.

Search

Home Competitions Datasets Code Discussion Followers Notifications Account Edit Public Profile

✓ Ensure kaggle.json is in the location ~/.kaggle/kaggle.json to use the API.

Email Preferences

Your email preferences can now be controlled on the [Notification settings page](#).

API

Using Kaggle's beta API, you can interact with Competitions and Datasets to download data, make submissions, and more via the command line. [Read the docs](#)

Create New API Token Expire API Token

Quota	
Private Data	1.36 MB / 107.37 GB
GPU	00:00 / 33 hrs
TPU	00:00 / 20 hrs

kaggle (2).json kaggle (1).json Show all

The screenshot shows the Kaggle Playstore Dataset page. The left sidebar is the same as the previous screenshot. The main content area has a search bar and a navigation bar with links to Home, Competitions, Datasets, Code, Discussions, Learn, More, Your Work, and View Active Events. The dataset title is "Playstore Dataset" by SURYAKUMARSATHIYAN, updated 11 minutes ago, private. There are buttons for "New Notebook" and "Download (319 kB)". Below the title, there is a section for "Pending Actions" with a usability score of 2.35. The pending actions include: Add a subtitle, Add a description, Upload an image, and Add file information. The bottom status bar shows two files: kaggle (2).json and kaggle (1).json.

Search

SURYAKUMARSATHIYAN · UPDATED 11 MINUTES AGO · PRIVATE 0 New Notebook Download (319 kB)

Playstore Dataset

Add a subtitle [Edit](#)

Data Code (0) Discussion (0) Settings

Pending Actions

USABILITY SCORE: 2.35

Add a subtitle

Stand out on the listings page with a snappy

Add a description

Share specifics about the context, sources, and

Upload an image

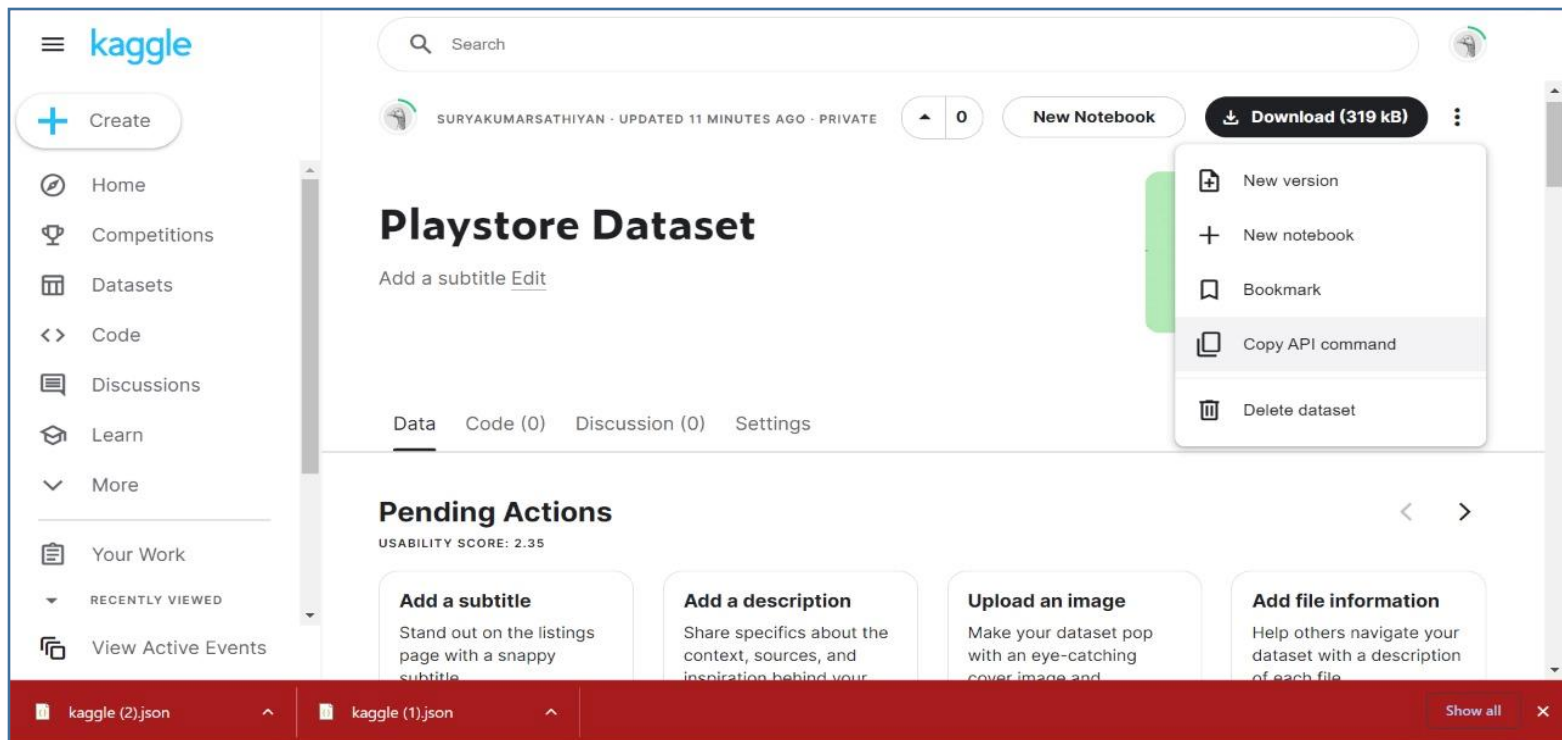
Make your dataset pop with an eye-catching

Add file information

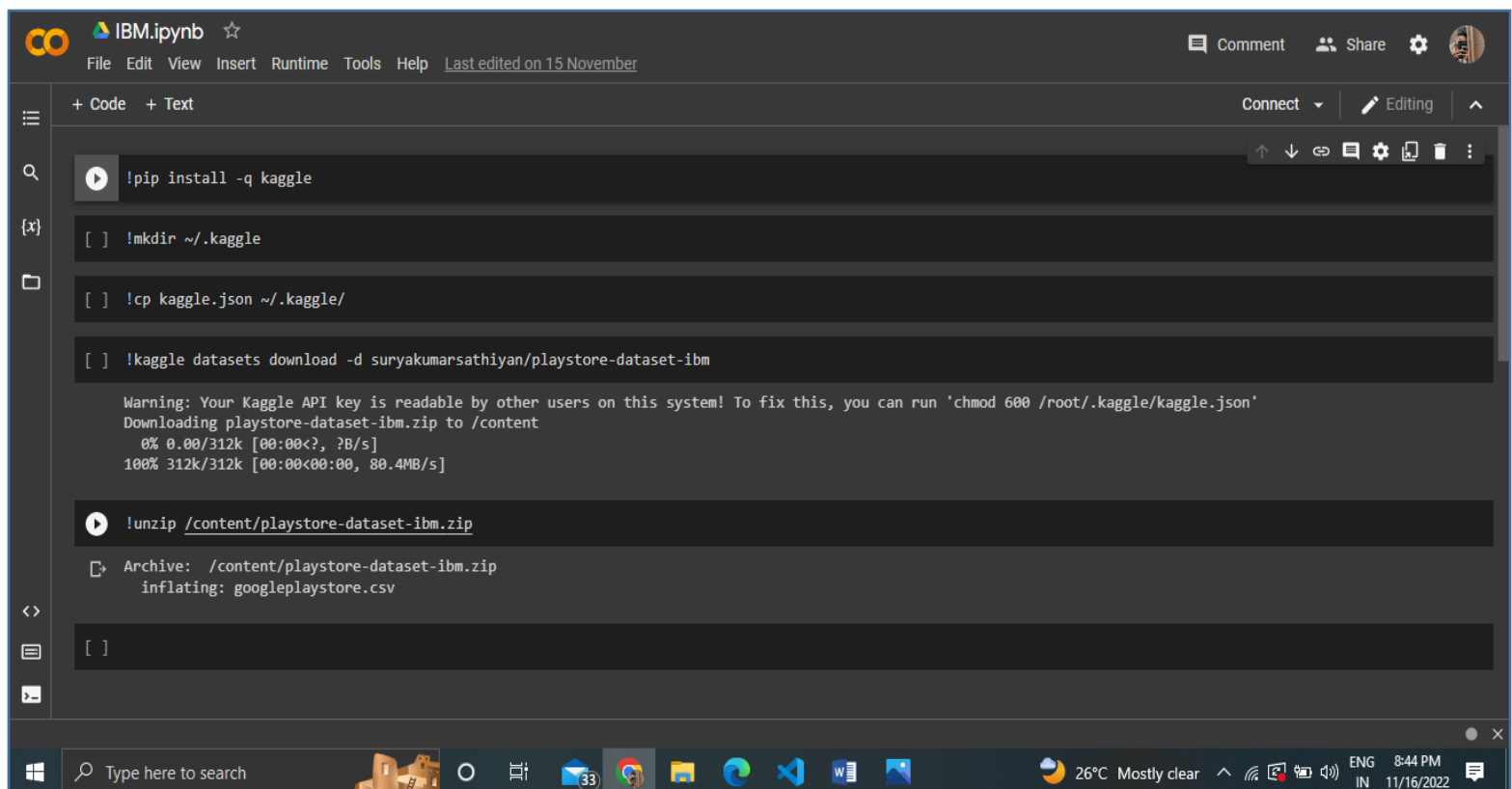
Help others navigate your dataset with a description

kaggle (2).json kaggle (1).json Show all

b) (Kaggle API) Copying API Command to ipynb



c) Unzipping and Verifying the dataset in Google Colab

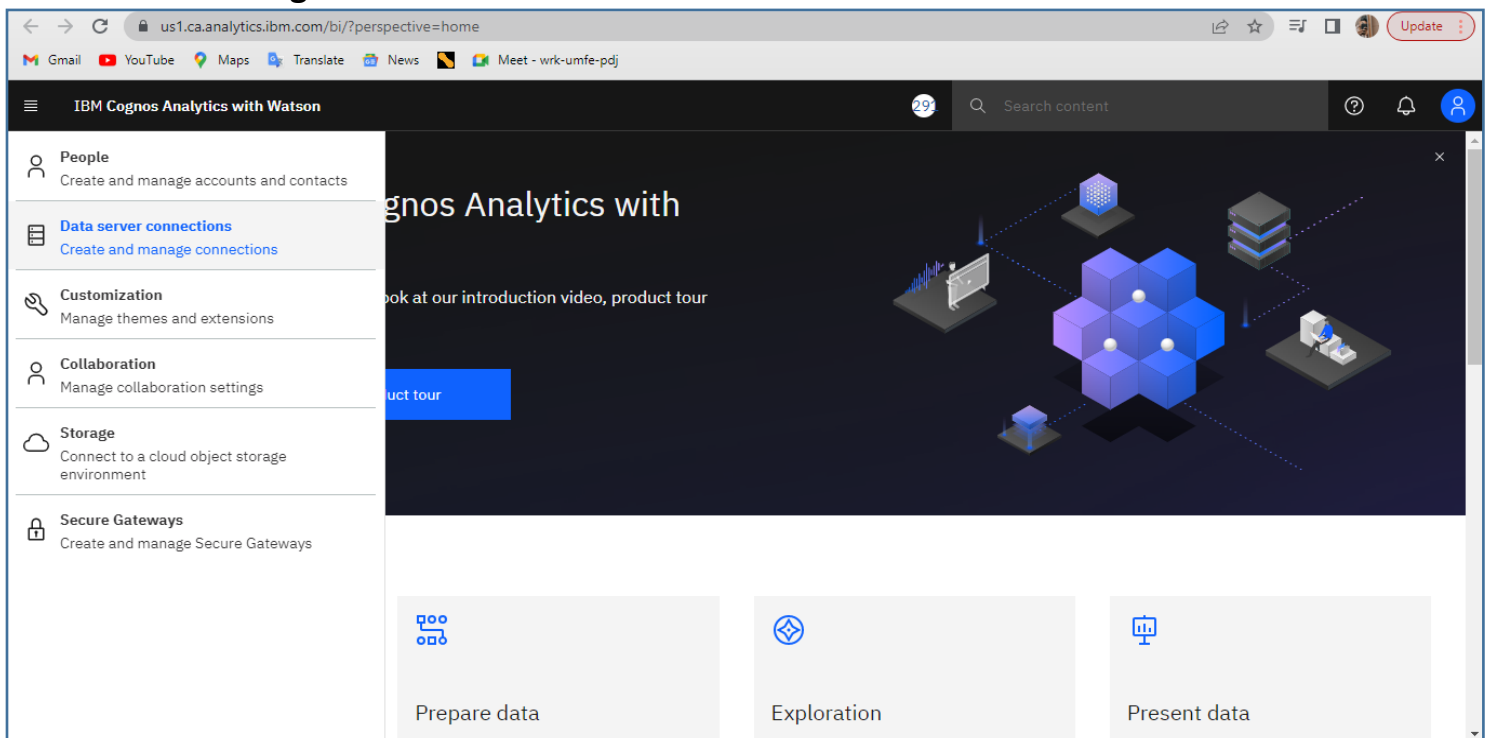


Google Colab Link:

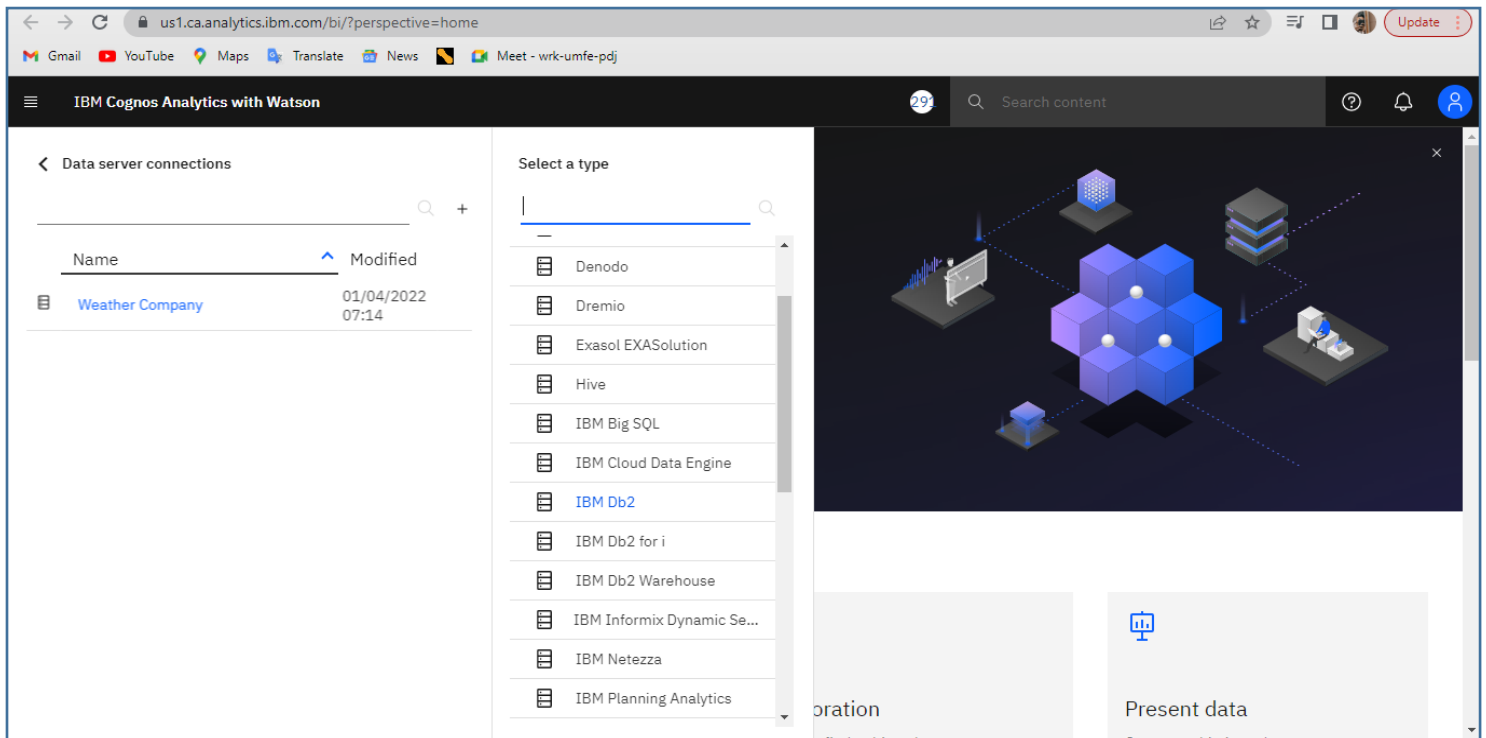
<https://colab.research.google.com/drive/1VwS9-XLRhBlgZw6nIEqogzegu3VjNrfn>

PHASE-2

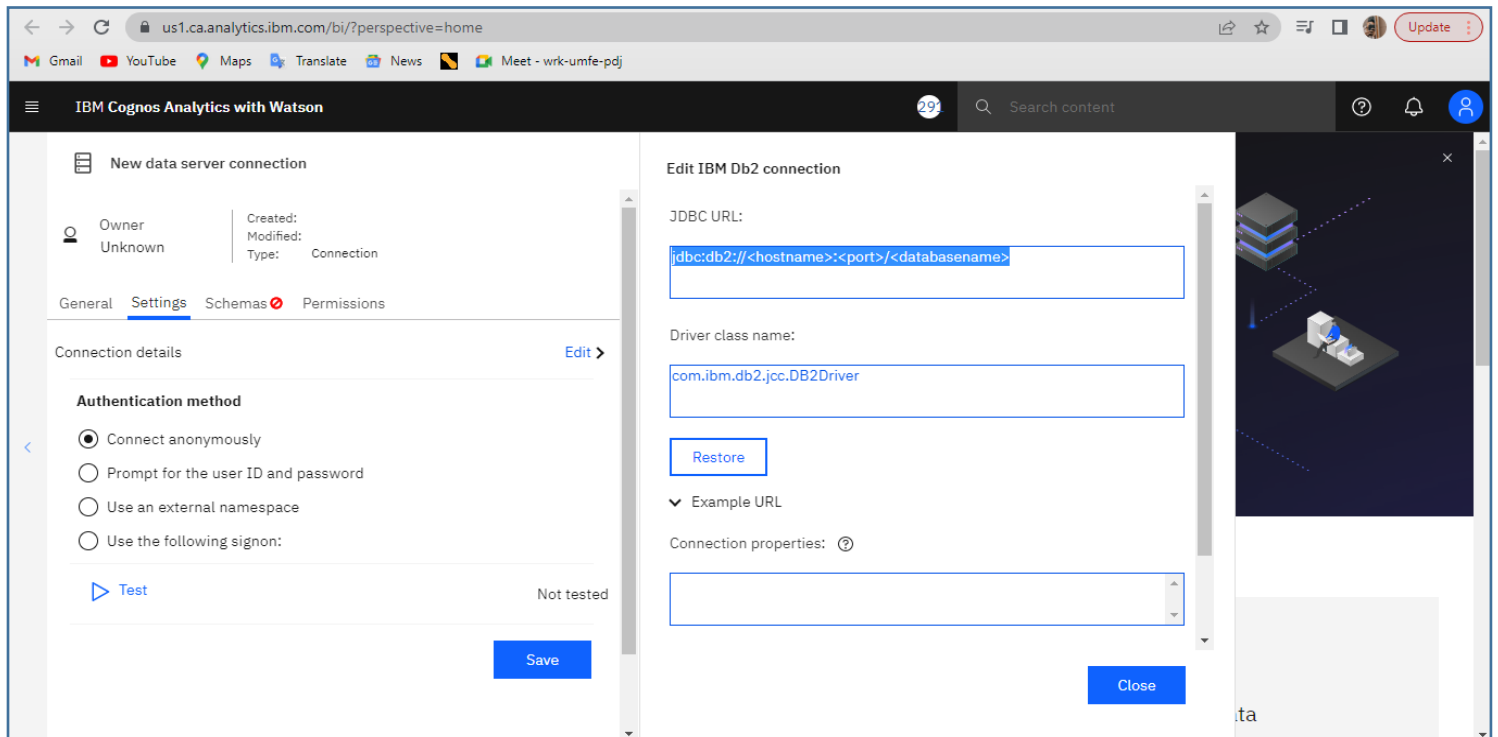
Establishing a IB DB2



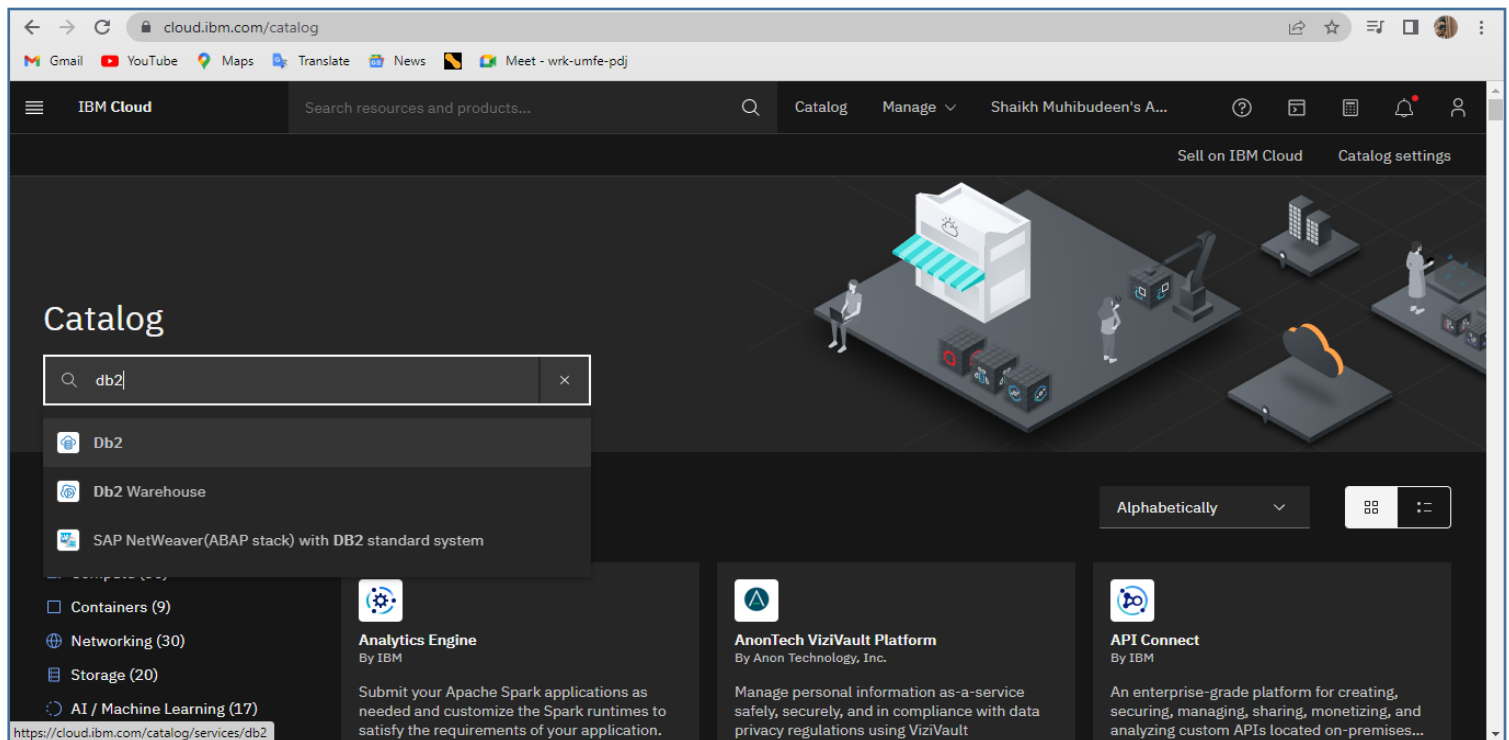
Selecting the type which is IBM Db2



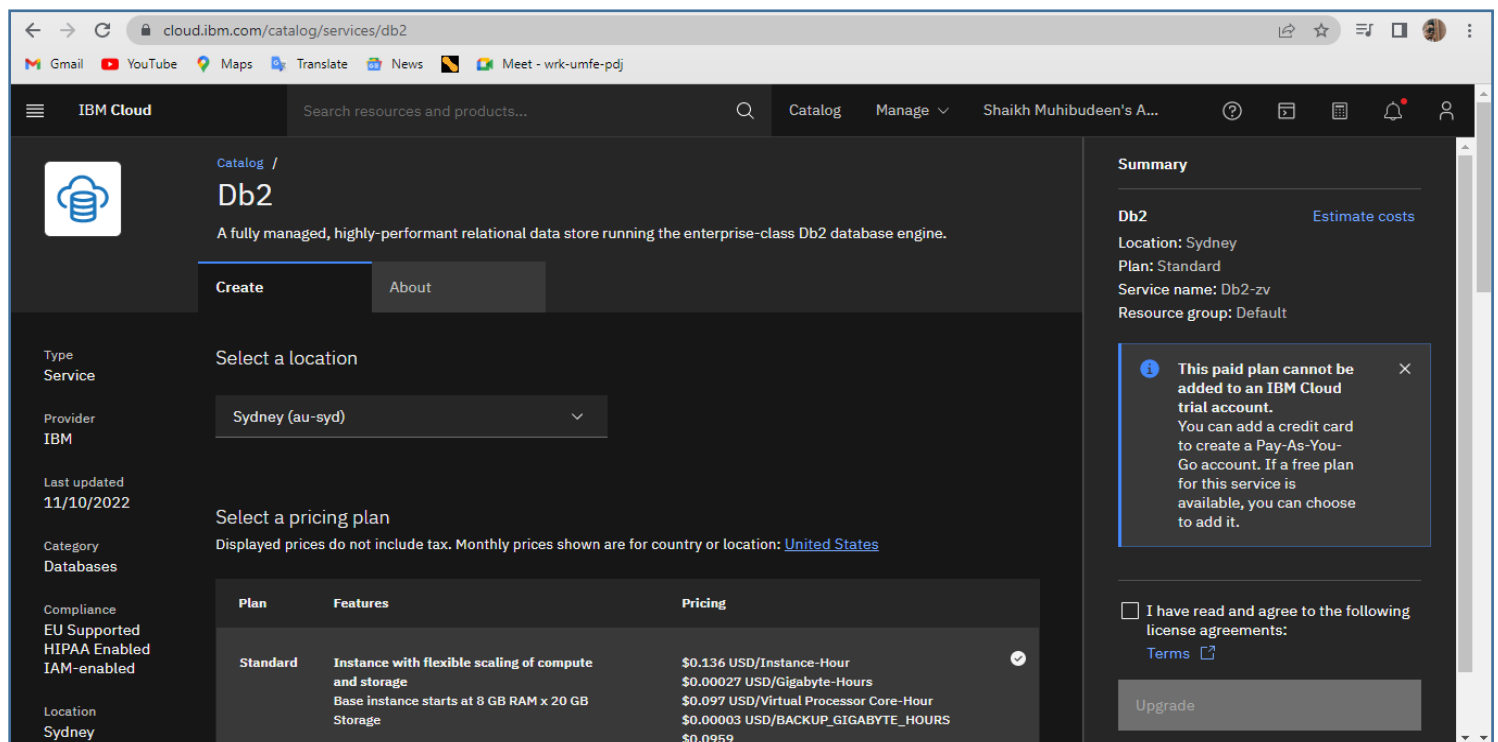
Changing Settings and Permissions



Logging into IBM cloud and searching Db2



Selecting region and Activating it



The Db2 is active

cloud.ibm.com/services/dashdb-for-transactions/crn%3Av1%3Abluemix%3Apublic%3Adashdb-for-transactions%3Aus-south%3Aa%2F7fe1526f52c24e3cb4e09697...

IBM Cloud Search resources and products...

Resource list / **Db2-zv** Active Add tags

Details Actions...

Manage

Getting started

Service credentials

Connections

Getting started

Where can I find my credentials?
Get your username and password by clicking the "Service Credentials" link to the left and selecting "New Credentials".
Don't see this menu on the left? Click on "Manage in IBM Cloud" to open the IBM Cloud dashboard.

Go to UI

Getting started docs

Need help?

Submit a IBM Cloud Support Case to our team.

Support case

Finding the Service credentials

cloud.ibm.com/services/dashdb-for-transactions/crn%3Av1%3Abluemix%3Apublic%3Adashdb-for-transactions%3Aus-south%3Aa%2F7fe1526f52c24e3cb4e09697...

IBM Cloud Search resources and products...

Resource list / **Db2-zv** Active Add tags

Details Actions...

Manage

Getting started

Service credentials

Connections

Service credentials

You can generate a new set of credentials for cases where you want to manually connect an app or external consumer to an IBM Cloud service. [Learn more](#)

Search credentials...

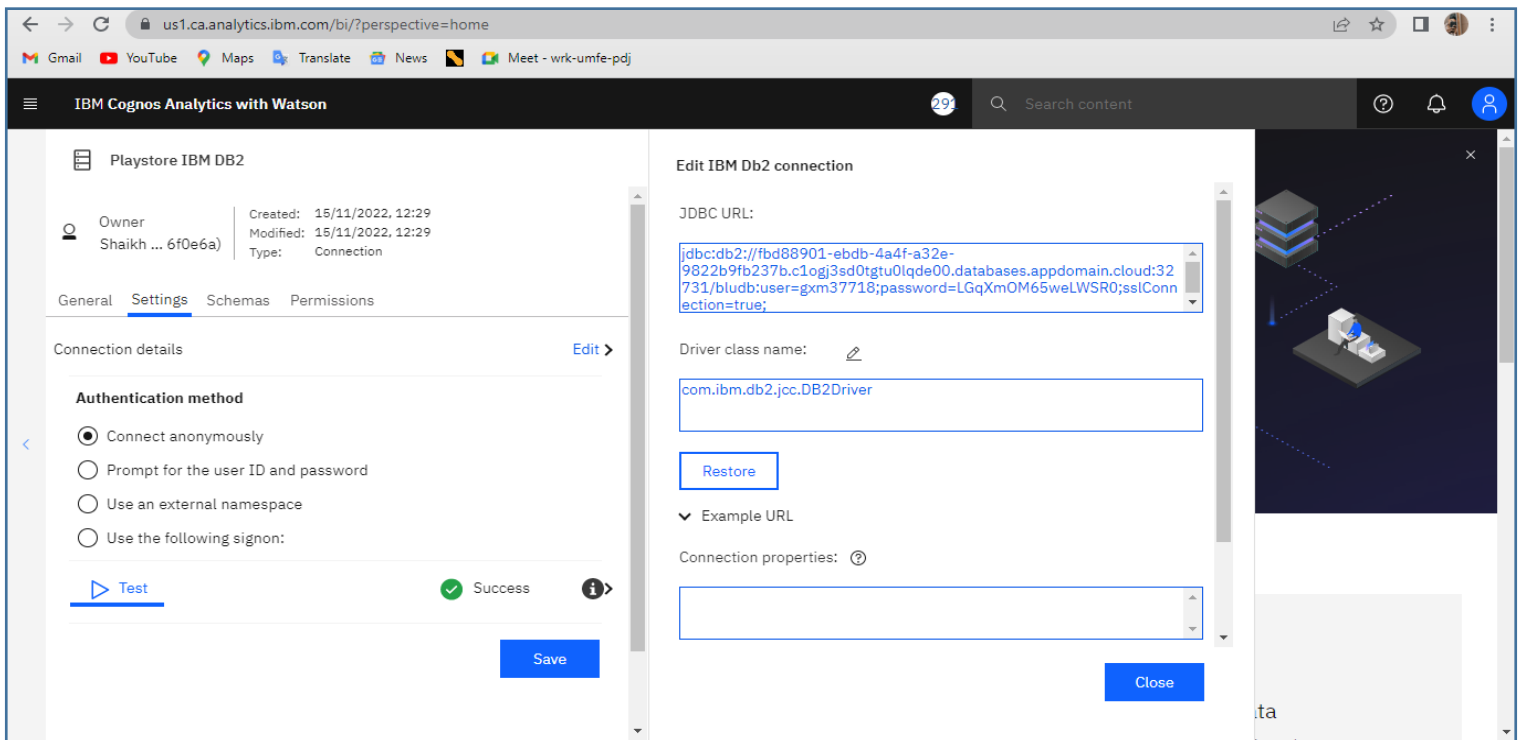
New credential

Key name	Date created
IBMCOGNOS	2022-11-15 10:06 AM

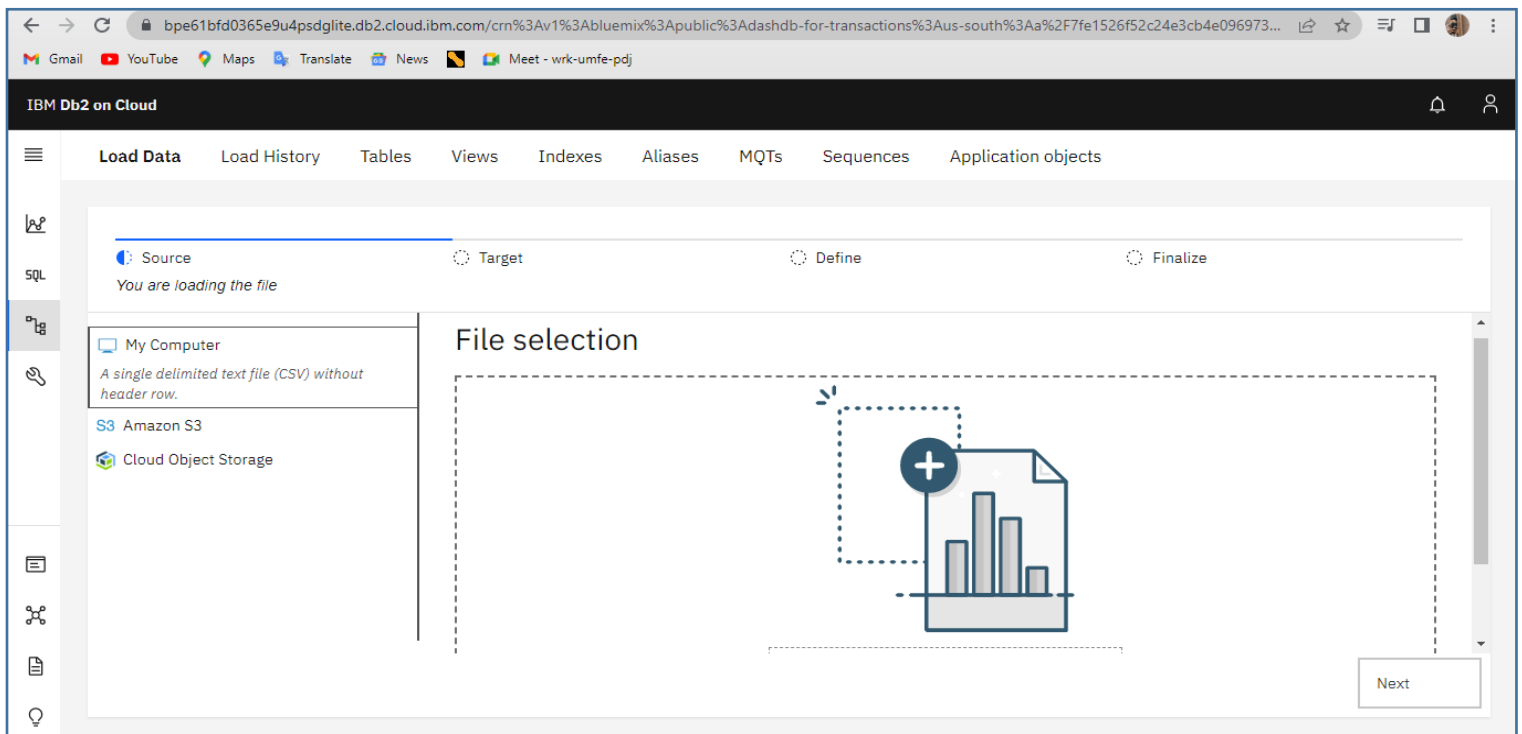
```
{
  "connection": {
    "cli": {
      "arguments": [
        "-u",
        "gxm37718",
        "-p",
        "LGqXm0M65weLWSR0",
        "--ssl",
        "--sslCAFile",
        "1cbbb1b6-3a1a-4d49-9262-3102a8f7a7c8",
        "--authenticationDatabase",

```

Copying the URL from Cloud db2 aswell as username and password to prevent difficulties while logging. Running Test



Uploading the downloaded file from Google Colab into the IBM Db2



Creating a Store Table

IBM Db2 on Cloud

Load Data | Load History | Tables | Views | Indexes | Aliases | MQTs | Sequences | Application objects

Source | Target | Define | Finalize

You are loading the file **googleplaystore (1).csv** into **GXM37718.STORE**

Schema

Find schemas

GXM37718 ✓

Table

Find tables in GXM37718

STORE ✓

Back | Next

Loading the csv file into Store data

IBM Db2 on Cloud

Load Data | Load History | Tables | Views | Indexes | Aliases | MQTs | Sequences | Application objects

Source | Target | Define | Finalize

You are loading the file **googleplaystore (1).csv** into **GXM37718.STORE**

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

APP VARCHAR(129)	CATEGORY VARCHAR(19)	RATING VARCHAR(3)	REVIEWS INTEGER
1 Photo Editor & Candy Camera & Grid & ScrapBook	ART_AND_DESIGN	4.1	159
2 Coloring book moana	ART_AND_DESIGN	3.9	967
3 U Launcher Lite – FREE Live Cool Themes, Hide Apps	ART_AND_DESIGN	4.7	87510
4 Sketch - Draw & Paint	ART_AND_DESIGN	4.5	215644
5 Pixel Draw - Number Art Coloring Book	ART_AND_DESIGN	4.3	967
6 Paper flowers instructions	ART_AND_DESIGN	4.4	167
7 Smoke Effect Photo Maker - Smoke Editor	ART_AND_DESIGN	3.8	178
8 Infinite Painter	ART_AND_DESIGN	4.1	26915

Back | Next

Finalizing the Loading Data process

IBM Db2 on Cloud

Load Data Load History Tables Views Indexes Aliases MQTs Sequences Application objects

Source Target Define Finalize

You are loading the file **googleplaystore (1).csv** into **GXM37718.STORE**

Review settings

Summary		Option
Code page:	1208 (Default)	Maximum number of warnings
Separator:	, (Default)	1000
Time format:	HH:MM:SS (Default)	
Date format:	YYYY-MM-DD (Default)	
Timestamp format:	YYYY-MM-DD HH:MM:SS (Default)	
Character set:	(Default)	

Back Begin Load

Running tests whether any errors are found

IBM Db2 on Cloud

Load Data Load History Tables Views Indexes Aliases MQTs Sequences Application objects

googleplaystore (1).csv GXM37718.STORE

WARNING 137 warnings

Status

10,841 **10,841** **0**
Rows read Rows loaded Rows rejected

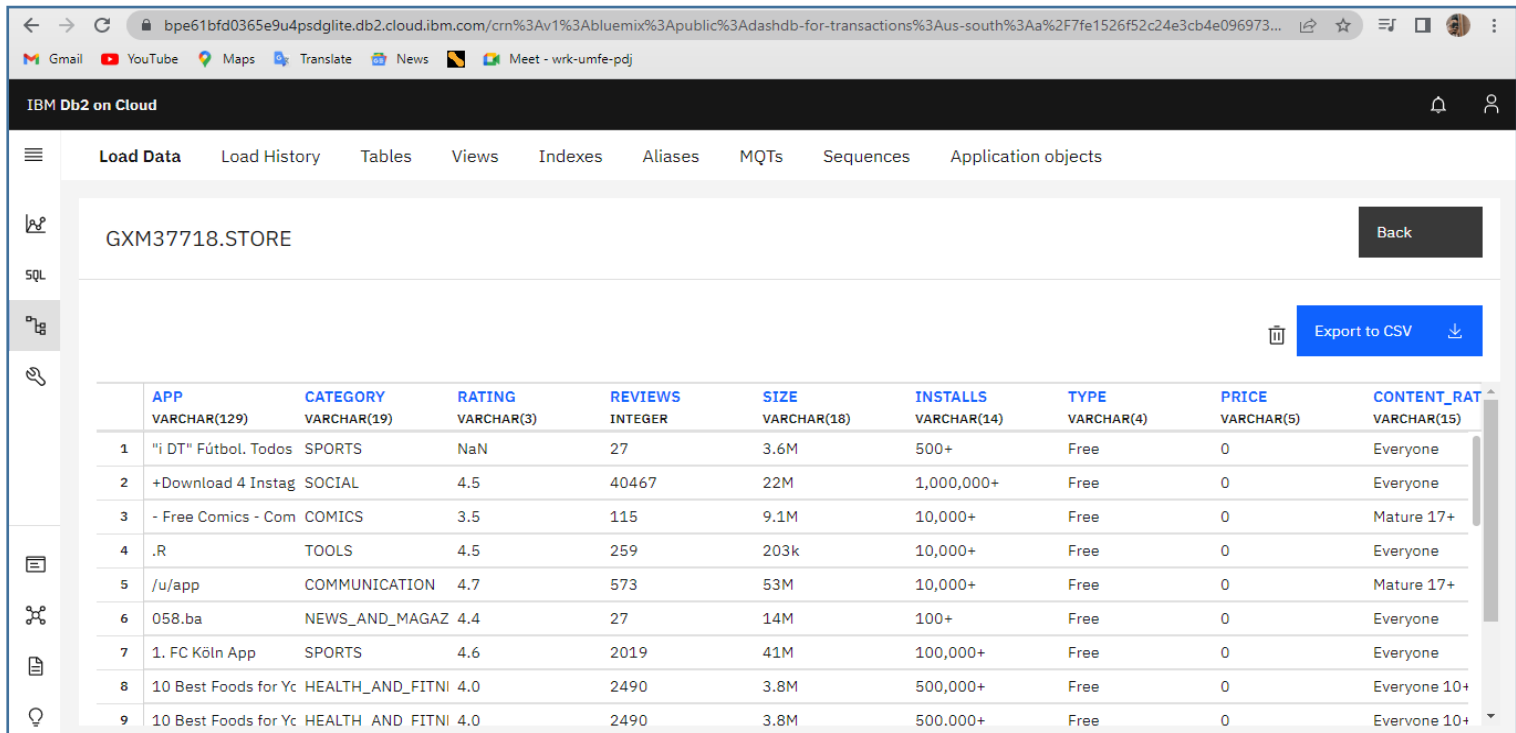
Start time
11/15/2022 12:31:07 PM
End time
11/15/2022 12:31:28 PM

The data load job succeeded.
You can now work with your data.

Errors 0 **Warnings 137**

No errors
But, there are **137 warnings**.

Establishing a perfect Dataset using IBM Db2



IBM Db2 on Cloud

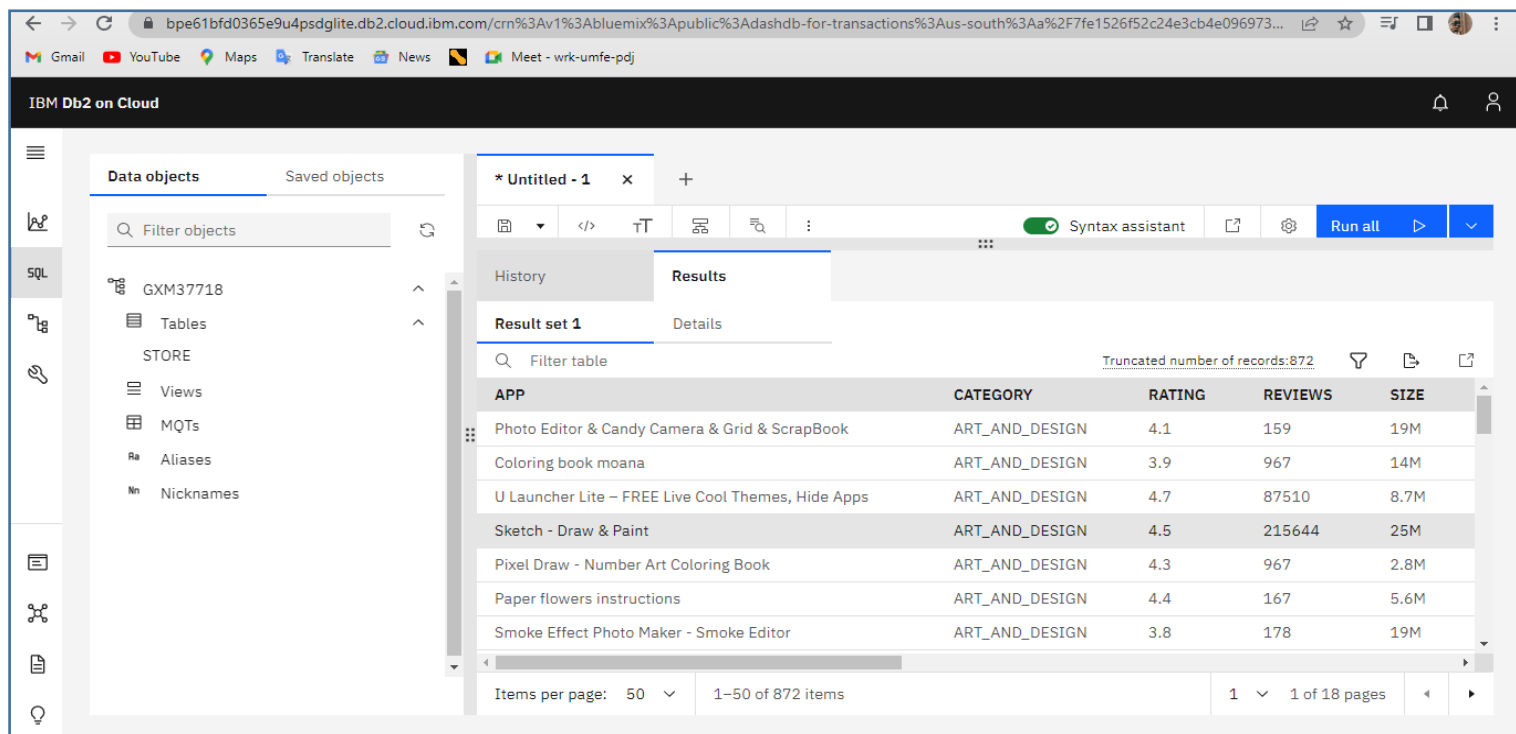
Load Data Load History Tables Views Indexes Aliases MQTs Sequences Application objects

GXM37718.STORE

Export to CSV

	APP VARCHAR(129)	CATEGORY VARCHAR(19)	RATING VARCHAR(3)	REVIEWS INTEGER	SIZE VARCHAR(18)	INSTALLS VARCHAR(14)	TYPE VARCHAR(4)	PRICE VARCHAR(5)	CONTENT_RAT VARCHAR(15)
1	"i DT" Fútbol. Todos	SPORTS	NaN	27	3.6M	500+	Free	0	Everyone
2	+Download 4 Instag	SOCIAL	4.5	40467	22M	1,000,000+	Free	0	Everyone
3	- Free Comics - Com	COMICS	3.5	115	9.1M	10,000+	Free	0	Mature 17+
4	.R	TOOLS	4.5	259	203k	10,000+	Free	0	Everyone
5	/u/app	COMMUNICATION	4.7	573	53M	10,000+	Free	0	Mature 17+
6	058.ba	NEWS_AND_MAGAZ	4.4	27	14M	100+	Free	0	Everyone
7	1. FC Köln App	SPORTS	4.6	2019	41M	100,000+	Free	0	Everyone
8	10 Best Foods for Yc	HEALTH_AND_FITNI	4.0	2490	3.8M	500,000+	Free	0	Everyone 10+
9	10 Best Foods for Yc	HEALTH AND FITNI	4.0	2490	3.8M	500.000+	Free	0	Everson 10+

Validating the Dataset roughly manually



IBM Db2 on Cloud

Data objects Saved objects

Filter objects

GXM37718

Tables

STORE

Views

MQTs

Aliases

Nicknames

*Untitled - 1

History Results

Result set 1 Details

Filter table

Truncated number of records: 872

APP	CATEGORY	RATING	REVIEWS	SIZE
Photo Editor & Candy Camera & Grid & ScrapBook	ART_AND_DESIGN	4.1	159	19M
Coloring book moana	ART_AND_DESIGN	3.9	967	14M
U Launcher Lite – FREE Live Cool Themes, Hide Apps	ART_AND_DESIGN	4.7	87510	8.7M
Sketch - Draw & Paint	ART_AND_DESIGN	4.5	215644	25M
Pixel Draw - Number Art Coloring Book	ART_AND_DESIGN	4.3	967	2.8M
Paper flowers instructions	ART_AND_DESIGN	4.4	167	5.6M
Smoke Effect Photo Maker - Smoke Editor	ART_AND_DESIGN	3.8	178	19M

Items per page: 50 1–50 of 872 items 1 1 of 18 pages

Completing the DB2 connectivity with cognos

The screenshot shows the IBM Cognos Analytics with Watson interface. A blue banner at the top indicates "Maintenance: Scheduled maintenance completed. Click More Info for details and to subscribe to future events". The main content area displays the "Playstore IBM DB2" connection configuration. The "General" tab is active, showing the connection name "Playstore IBM DB2", owner "Shaikh ... 6f0e6a", and creation/modification dates. The "Connections" tab is also visible, showing a list of connections. The "Schemas" tab is active, displaying a table of schemas:

Status	Schema name	Tables loaded
<input type="radio"/>	ERRORSCHEMA	
<input checked="" type="radio"/>	GXM37718	1 / 1
<input type="radio"/>	HEALTHMETRICS	
<input type="radio"/>	IBMADT	
<input type="radio"/>	IBMCONSOLE	

A "Load metadata" button is visible next to the "GXM37718" schema. The interface also includes a search bar and a user profile icon.

The Db2 is successfully connected to cognos and is ready to use for exploration and much more

The screenshot shows the IBM Cognos Analytics with Watson interface. The "Data module" is selected, and the "IBMKoogle" data source is chosen. The "Grid" view is active, displaying a list of data modules:

- Navigation paths
- Store
 - abc App
 - abc Category
 - abc Rating
 - Reviews
 - abc Size
 - abc Installs
 - abc Type
 - abc Price
 - abc Content Rating
 - abc Genres
 - abc Last Updated

The "Preview data" section is visible, showing a table icon and the text: "To preview data, select a table, a column in a table, or a folder that contains columns."