

# Creating a Db2 Warehouse on Cloud instance in Bluemix



Selecting the Db2 Warehouse on Cloud icon in the DSX Lab #1 notebook creates a new tab with the following screen. Note: if your Bluemix credentials are already loaded you will be brought directly to the Db2 Warehouse on Cloud create screen.

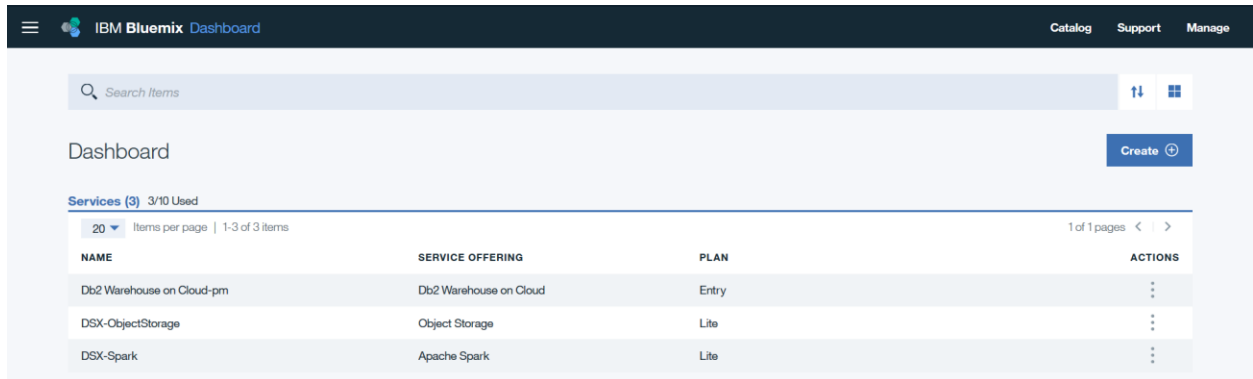
The screenshot shows the IBM Bluemix Catalog page for 'Db2 Warehouse on Cloud'. The page includes a header with 'IBM Bluemix Catalog', 'Docs', 'Catalog', 'Log In', and 'Sign Up' buttons. Below the header, there's a 'View all' link and the title 'Db2 Warehouse on Cloud'. The main content area is divided into two columns. The left column contains a description of the service, its features, and a 'View Docs' link. The right column contains a 'Features' section with four bullet points: 'Fully managed, safe, and secure', 'Highly Available (HA) with MPP', 'Compatible with Netezza and Oracle', and 'Built for the hybrid cloud'. Below the features, there's an 'Images' section with a description and a series of screenshots showing the user interface. At the bottom, there's a 'Need Help? Contact Bluemix Sales' link and a 'Sign up to Create' button.

Select **Log In**

**Log In** should log you into Bluemix using your DSX credentials and bring you to the Db2 Warehouse on Cloud create screen

The screenshot shows the IBM Bluemix Catalog page for 'Db2 Warehouse on Cloud', specifically the 'Create' screen. The page includes a header with 'IBM Bluemix Catalog', 'Catalog', 'Support', and 'Manage' buttons. Below the header, there's a 'View all' link and the title 'Db2 Warehouse on Cloud'. The main content area is divided into two columns. The left column contains a description of the service, its features, and a 'View Docs' link. The right column contains a 'Service name' field with the value 'Db2 Warehouse on Cloud-5j', a 'Select region to deploy in:' dropdown menu with 'US South' selected, a 'Choose an organization:' field with the value 'jpatter@us.ibm.com', and a 'Choose a space:' dropdown menu with 'DEMO' selected. Below these fields, there's a 'Features' section with four bullet points: 'Fully managed, safe, and secure', 'Highly Available (HA) with MPP', 'Compatible with Netezza and Oracle', and 'Built for the hybrid cloud'. At the bottom, there's a 'Need Help? Contact Bluemix Sales' link, an 'Estimate Monthly Cost Cost Calculator' link, and a 'Create' button.

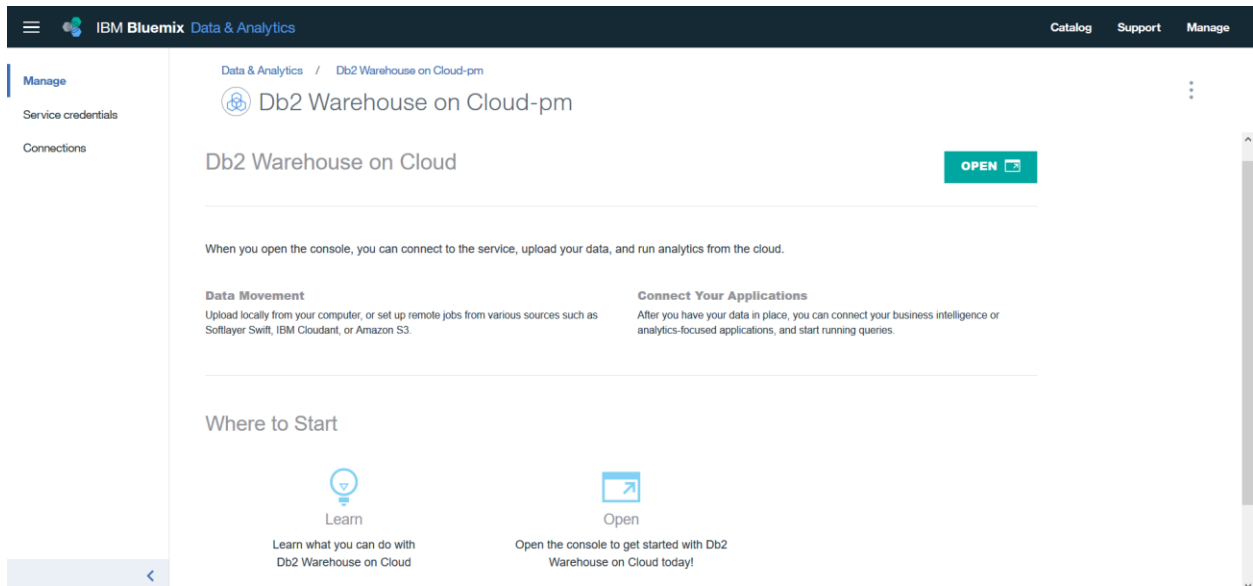
Provide a name for the Db2 Warehouse on Cloud service or take the default. **Create** the Db2 Warehouse on Cloud instance – you will be directed to the Dashboard and see something similar to (or you may go directly to the Db2 Warehouse on Cloud service screen as shown on the next page)



The screenshot shows the IBM Bluemix Dashboard. At the top, there's a navigation bar with the IBM Bluemix logo and 'Dashboard' text. On the right, there are links for 'Catalog', 'Support', and 'Manage'. Below the navigation bar is a search bar labeled 'Search Items'. The main content area is titled 'Dashboard' and includes a 'Create' button. A section titled 'Services (3) 3/10 Used' displays a table of services. The table has columns for NAME, SERVICE OFFERING, PLAN, and ACTIONS. The services listed are Db2 Warehouse on Cloud-pm, DSX-ObjectStorage, and DSX-Spark.

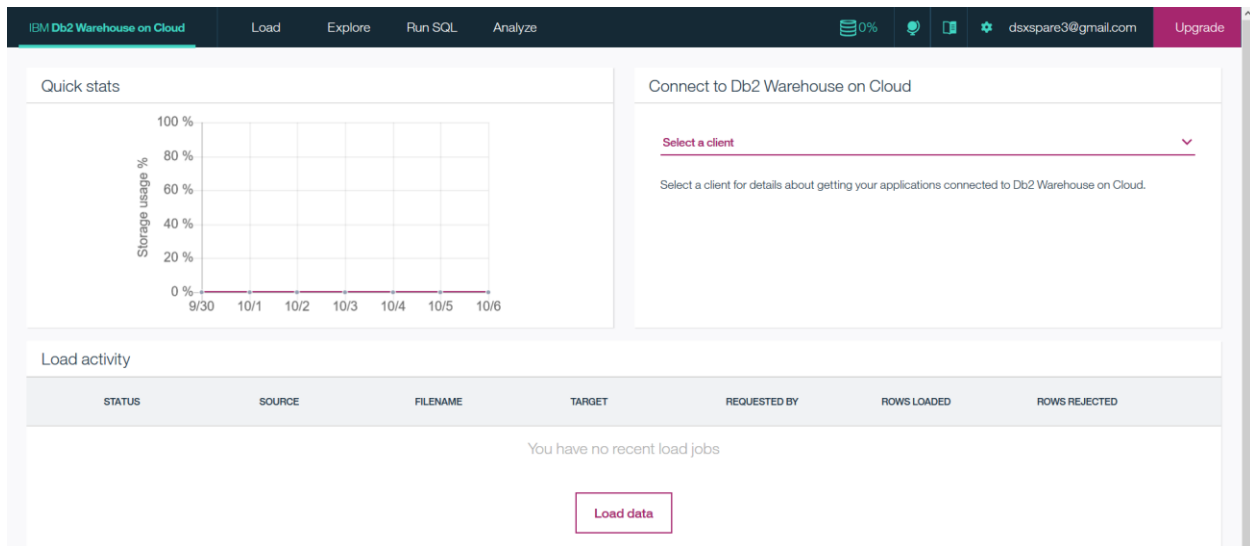
NAME	SERVICE OFFERING	PLAN	ACTIONS
Db2 Warehouse on Cloud-pm	Db2 Warehouse on Cloud	Entry	⋮
DSX-ObjectStorage	Object Storage	Lite	⋮
DSX-Spark	Apache Spark	Lite	⋮

Select the **Db2 Warehouse on Cloud** service – this brings you to the following



The screenshot shows the Db2 Warehouse on Cloud console page. The navigation bar at the top includes the IBM Bluemix logo and 'Data & Analytics'. On the right, there are links for 'Catalog', 'Support', and 'Manage'. The left sidebar has a 'Manage' section with sub-links for 'Service credentials' and 'Connections'. The main content area is titled 'Db2 Warehouse on Cloud-pm' and includes a green 'OPEN' button. Below the title, there's a description: 'When you open the console, you can connect to the service, upload your data, and run analytics from the cloud.' There are two sections: 'Data Movement' and 'Connect Your Applications'. At the bottom, there's a 'Where to Start' section with two options: 'Learn' (Learn what you can do with Db2 Warehouse on Cloud) and 'Open' (Open the console to get started with Db2 Warehouse on Cloud today!).

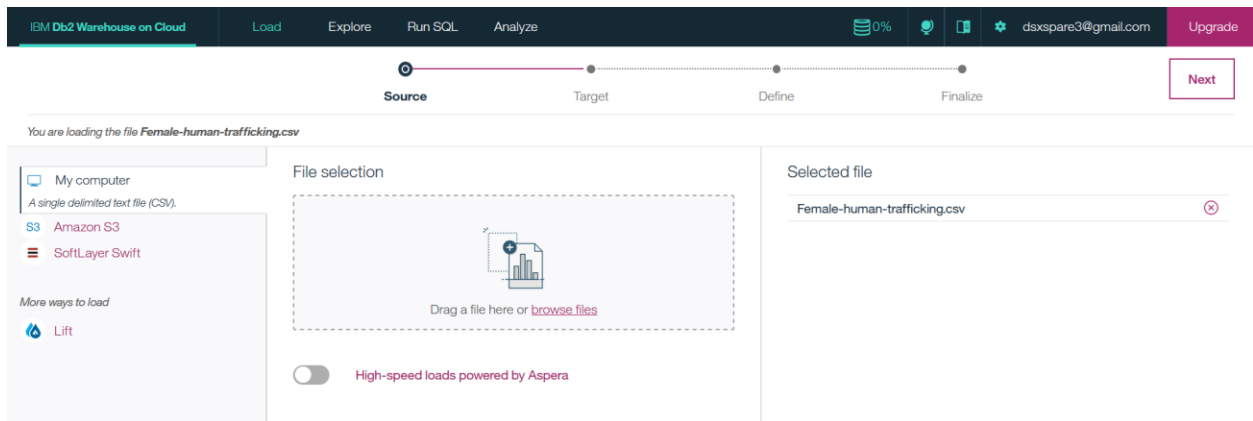
Select **OPEN** to open the Db2 Warehouse on Cloud console.



Close the Quick Tour and select **Load**

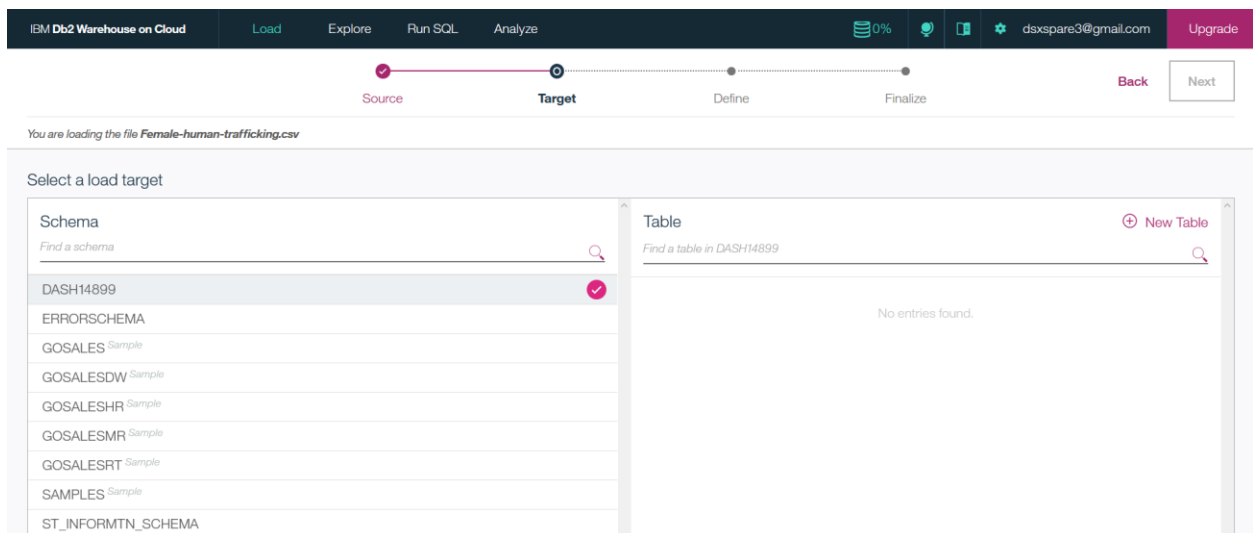
The screenshot shows the 'Load' wizard in the IBM Db2 Warehouse on Cloud interface. The top navigation bar includes 'Load', 'Explore', 'Run SQL', and 'Analyze'. The wizard progress bar shows four steps: Source (selected), Target, Define, and Finalize. The 'Source' step is active, showing a 'Select a data source' section with options: 'My computer' (described as 'A single delimited text file (CSV)'), 'Amazon S3', and 'SoftLayer Swift'. Below these are 'More ways to load' options: 'Lift'. The 'File selection' section features a large dashed box with a file icon and a plus sign, with the text 'Drag a file here or [browse files](#)'. At the bottom, there is a toggle switch for 'High-speed loads powered by Aspera'.

Browse files and select the **female\_human\_trafficking.csv** file which you should have downloaded previously.

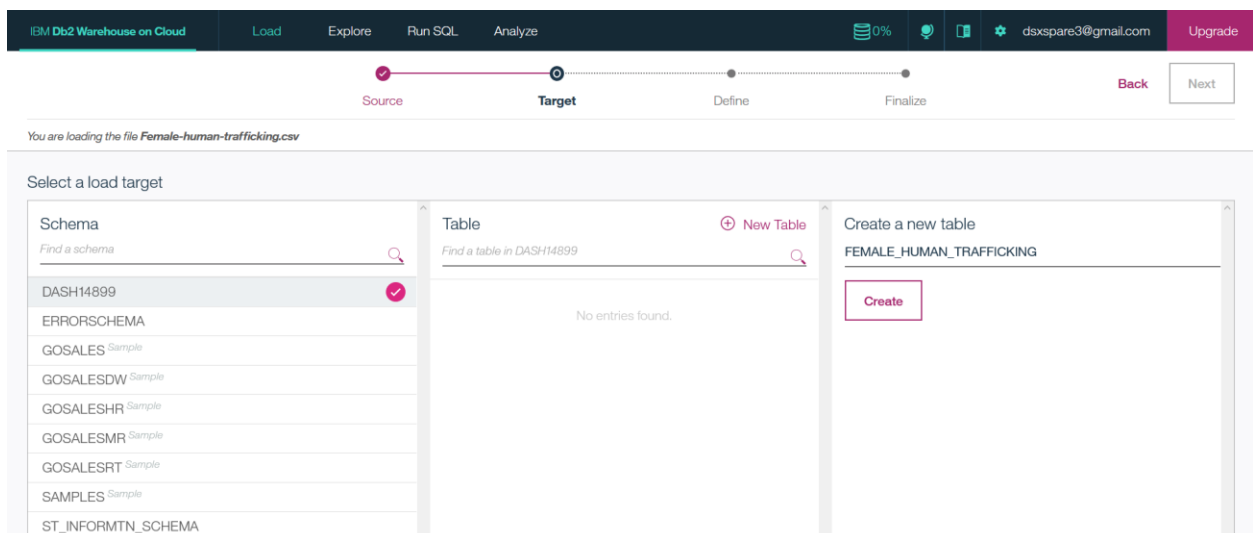


Select **Next**.

Select the schema. Select the one that has **DASH** in it.



Select **New Table** and enter **FEMALE\_HUMAN\_TRAFFICKING** for the table name



The screenshot shows the IBM Db2 Warehouse on Cloud console. The top navigation bar includes 'Load', 'Explore', 'Run SQL', and 'Analyze'. The 'Load' step is currently active, indicated by a red circle and the label 'Source'. A progress bar shows the sequence: Source (active) -> Target -> Define -> Finalize. The 'Next' button is highlighted in red. Below the progress bar, a message states: 'You are loading the file Female-human-trafficking.csv into DASH14899.FEMALE\_HUMAN\_TRAFFICKING'.

Schema

Find a schema

DASH14899

ERRORSCHEMA

GOSALES Sample

GOSALESDW Sample

GOSALESHR Sample

GOSALESMR Sample

GOSALESRT Sample

SAMPLES Sample

ST\_INFORMTN\_SCHEMA

Table

Find a table in DASH14899

FEMALE\_HUMAN\_TRAFFICKING

Table definition

FEMALE\_HUMAN\_TRAFFICKING

No statistics available

Specify the table columns in the next step.

IBM Db2 Warehouse on Cloud

Load

Explore

Run SQL

Analyze

0%

dsxspare3@gmail.com

Upgrade

Source

Target

Define

Finalize

Back

Next

You are loading the file *Female-human-trafficking.csv* into *DASH14899.FEMALE\_HUMAN\_TRAFFICKING*

### Define table

Code page (character encoding): 1208

Separator: ,

Header in first row: ☒

Time & date format:

Detect data types: ☒

Date format: YYYY-MM-DD

Time format: N/A

Timestamp format: N/A

	INTERNAL_ID SMALLINT	VETTING_LEVEL SMALLINT	DESCRIPTION VARCHAR (2)	VETTING_LEVEL_PREDICTION SMALLINT	ALGORITHM_NAME VARCHAR (13)	NAME VARCHAR (27)	GENDER VARCHAR (1)	BIRTH DATE
1	1	100	NA	30	DECISION_TREE	Kathleen Bailey	F	1985-1
2	2	30	NA	30	DECISION_TREE	Kelly Robbins	F	1971-0
3	3	100	NA	30	DECISION_TREE	Linda Stewart	F	1997-0
4	4	100	NA	30	DECISION_TREE	Stacey Courtney Gonzalez	F	1984-0
5	5	30	NA	30	DECISION_TREE	Erika Patie Fowler	F	1998-0
6	6	100	NA	30	DECISION_TREE	Ashlee Fisher	F	1961-0
7	7	100	NA	30	DECISION_TREE	Jacqueline Clark	F	1976-0

IBM Db2 Warehouse on Cloud
Load
Explore
Run SQL
Analyze
0%
dsxspare3@gmail.com
Upgrade

Source
Target
Define
Finalize
Back
Begin Load

You are loading the file *Female-human-trafficking.csv* into *DASH14899.FEMALE\_HUMAN\_TRAFFICKING*

### Review settings

#### Summary

Code page: 1208  
Separator: ,  
Header in first row: Yes  
Time format: HH:MM:SS (Default)  
Date format: M/D/YYYY  
Timestamp format: YYYY-MM-DD HH:MM:SS (Default)  
String delimiter: \* (Default)

#### Option

Maximum number of warnings: 1000

## Select Begin Load

IBM Db2 Warehouse on Cloud
Load
Explore
Run SQL
Analyze
0%
dsxspare3@gmail.com
Upgrade

### Load details

COMPLETE

My computer

Female-human-trafficking.csv

Target

DASH14899.FEMALE\_HUMAN\_TRAFFI...

View Table
Load More Data

Status
Settings

1,085

1,085

0

Rows read

Rows loaded

Rows rejected

Start time

10/6/2017 at 9:58:33 AM Eastern Standard Time

End time

10/6/2017 at 9:58:34 AM Eastern Standard Time

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

Errors
Warnings
Download Log

No errors

COMPLETE

My computer

Female-human-trafficki...

Target

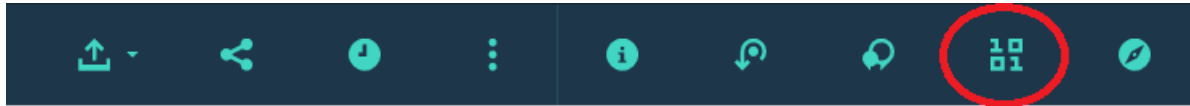
DASH14899.FEMALE\_...

The table is now loaded. You may exit Bluemix or close the tab if desired.

Now that a Db2 Warehouse on Cloud instance has been created, add it as a source to DSX in the next section.

# Adding Db2 Warehouse on Cloud as a DSX Data Source

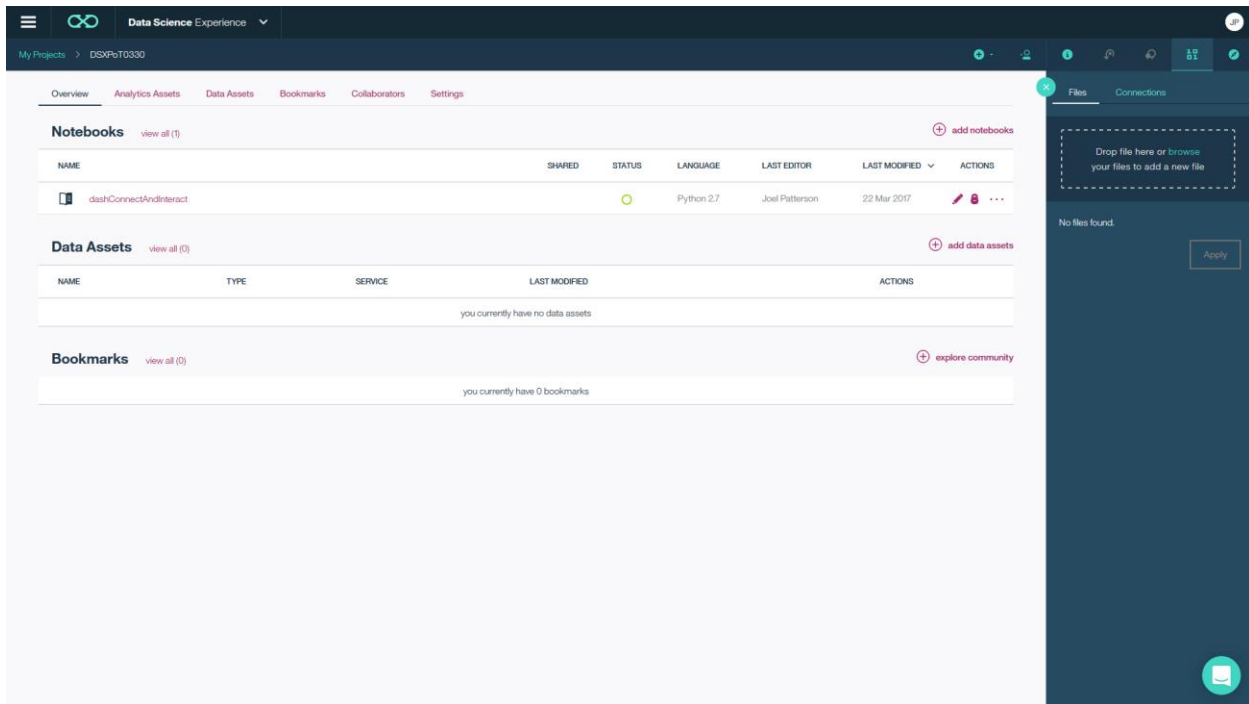
Click the box of 1's and 0's which allows you to insert file or data connections. Select the **Connections** tab.



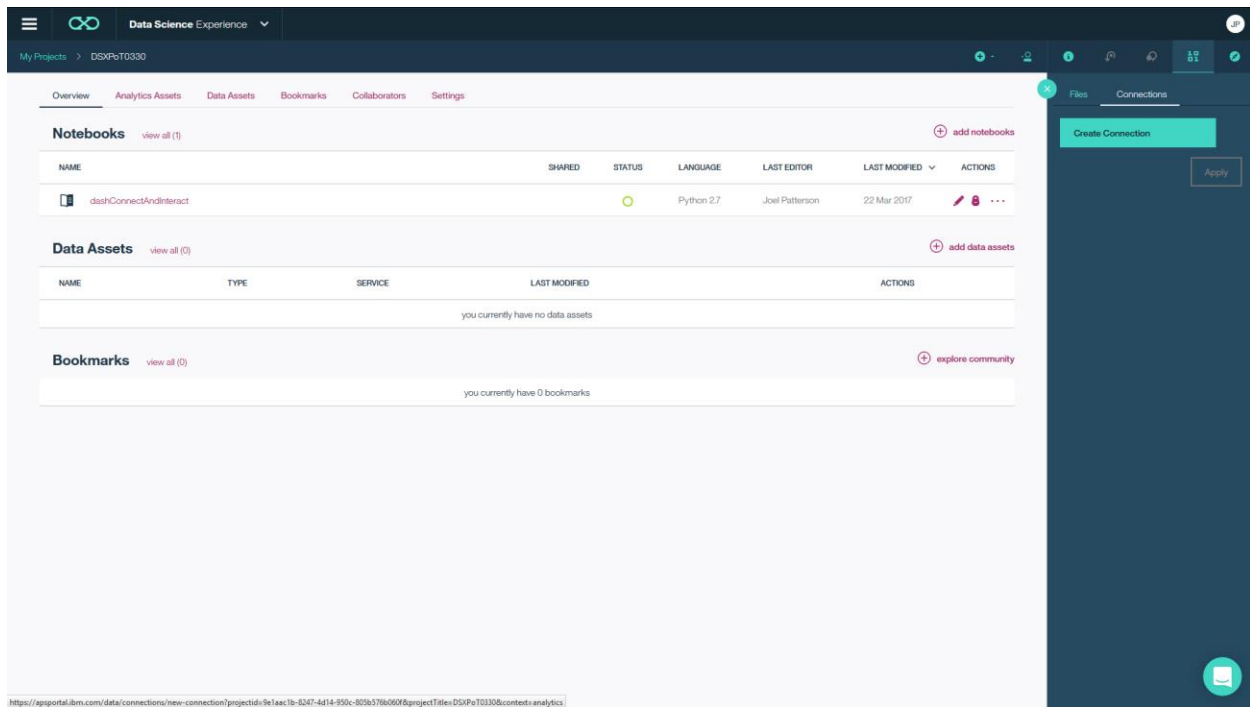
You should not have any connections defined.



Select **project page** to create a new tab in your browser displaying the project page:



Select **Connections**.



## Select Create Connection

The screenshot shows the 'Create Connection' form in the IBM Data Science Experience interface. The form includes fields for Name, Description, Service Category, Service Instance, and Database. The 'Name' field is filled with 'Db2 Warehouse on Cloud'. The 'Description' field is empty. The 'Service Category' is set to 'Data Service'. The 'Service Instance' is set to 'Db2 Warehouse on Cloud: Db2 Warehouse on Cloud-ita'. The 'Database' is set to 'BLUDB'. The 'Create' button is highlighted.

Pick a name for your **Db2 Warehouse on Cloud** connection, an optional description, and then select the **Service Instance** (name will be what you picked when creating the instance) and **Database** (BLUDB).

**Create.**



IBM Data Science Experience

Projects Tools Data Services Community

US South Docs

My Projects > LMCO

Overview Analytics Assets Data Assets Bookmarks Deployments Collaborators Settings

**Notebooks** view all (1) + add notebooks

NAME	SHARED	STATUS	LANGUAGE	LAST EDITOR	LAST MODIFIED	ACTIONS
Lab-1			Python 3.5	Joel Patterson	6 Oct 2017	

**Data Assets** view all (1) + add data assets

NAME	TYPE	SERVICE	LAST MODIFIED	ACTIONS
Db2 Warehouse on Cloud	Connection	dashDB	6 Oct 2017	

**Bookmarks** view all (0) + explore community

you currently have 0 bookmarks

Create Connection

Db2 Warehouse on Cloud

Apply

The connection will now show in your list of **Data Assets**.

My Projects > LMCO > Lab-1

File Edit View Insert Cell Kernel Help

Trusted | Python 3.5 (Experimental) with Spark 2.1

Format Code

**Access Db2 Warehouse on Cloud and explore the data with Python**

This notebook shows how to access a DB2 data warehouse or DB2 database when using Python. The examples use a DB2 warehouse, but the instructions apply to both DB2 Warehouse and DB2.

Files Connections

Db2 Warehouse on Cloud

Insert to code

And will automatically update in the list of **Connections** for your notebook.