
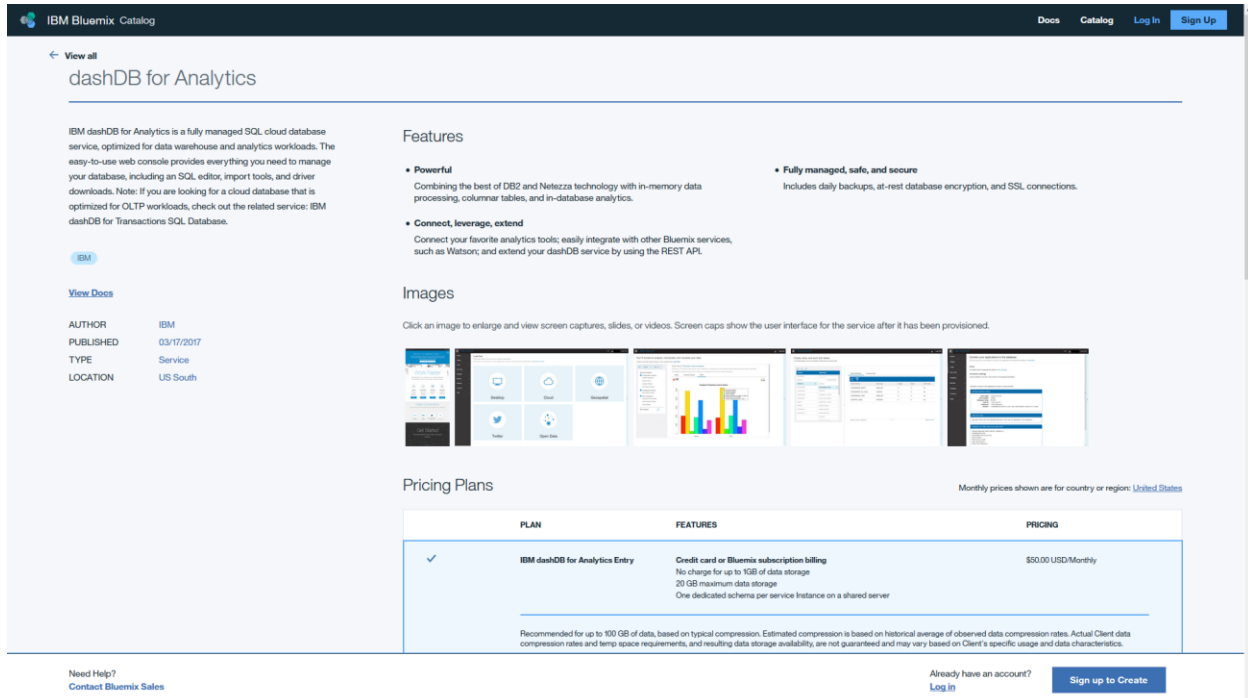


Creating a dashDB instance in Bluemix



Selecting the dashDB icon  in the DSX Lab #1 notebook creates a new tab with the following screen. Select **Log In**



IBM Bluemix Catalog

dashDB for Analytics

IBM dashDB for Analytics is a fully managed SQL cloud database service, optimized for data warehouse and analytics workloads. The easy-to-use web console provides everything you need to manage your database, including an SQL editor, import tools, and driver downloads. Note: If you are looking for a cloud database that is optimized for OLTP workloads, check out the related service: IBM dashDB for Transactions SQL Database.

Features

- Powerful**
Combining the best of DB2 and Netezza technology with in-memory data processing, columnar tables, and in-database analytics.
- Fully managed, safe, and secure**
Includes daily backups, at-rest database encryption, and SSL connections.
- Connect, leverage, extend**
Connect your favorite analytics tools; easily integrate with other Bluemix services, such as Watson; and extend your dashDB service by using the REST API.

Images

Click an image to enlarge and view screen captures, slides, or videos. Screen caps show the user interface for the service after it has been provisioned.

Pricing Plans

Monthly prices shown are for country or region: [United States](#)

PLAN	FEATURES	PRICING
✓ IBM dashDB for Analytics Entry	Credit card or Bluemix subscription billing No charge for up to 1GB of data storage 20 GB maximum data storage One dedicated schema per service Instance on a shared server	\$50.00 USD/Monthly

Recommended for up to 100 GB of data, based on typical compression. Estimated compression is based on historical average of observed data compression rates. Actual Client data compression rates and temp space requirements, and resulting data storage availability, are not guaranteed and may vary based on Client's specific usage and data characteristics.

Need Help?
[Contact Bluemix Sales](#)

Already have an account?
[Log In](#)

[Sign up to Create](#)

Log In should log you into Bluemix using your DSX credentials and bring you to the dashDB create screen

Docs IBM Bluemix Catalog 29 Trial Days Remaining Joel Patterson's Account US South dashdb033001 test Catalog Support Manage

View all dashDB for Analytics

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IBM

View Docs

AUTHOR IBM
PUBLISHED 03/17/2017
TYPE Service
LOCATION US South


Service name:
dashDB for Analytics-b7

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PLAN	FEATURES	PRICING

Need Help? [Contact Bluemix Sales](#) Estimate Monthly Cost [Cost Calculator](#) [Create](#)

Create the dashDB instance – you will be directed to the Dashboard and see something similar to

Docs IBM Bluemix Services 29 Trial Days Remaining Joel Patterson's Account US South dashdb033001 test Catalog Support Manage

Search Items

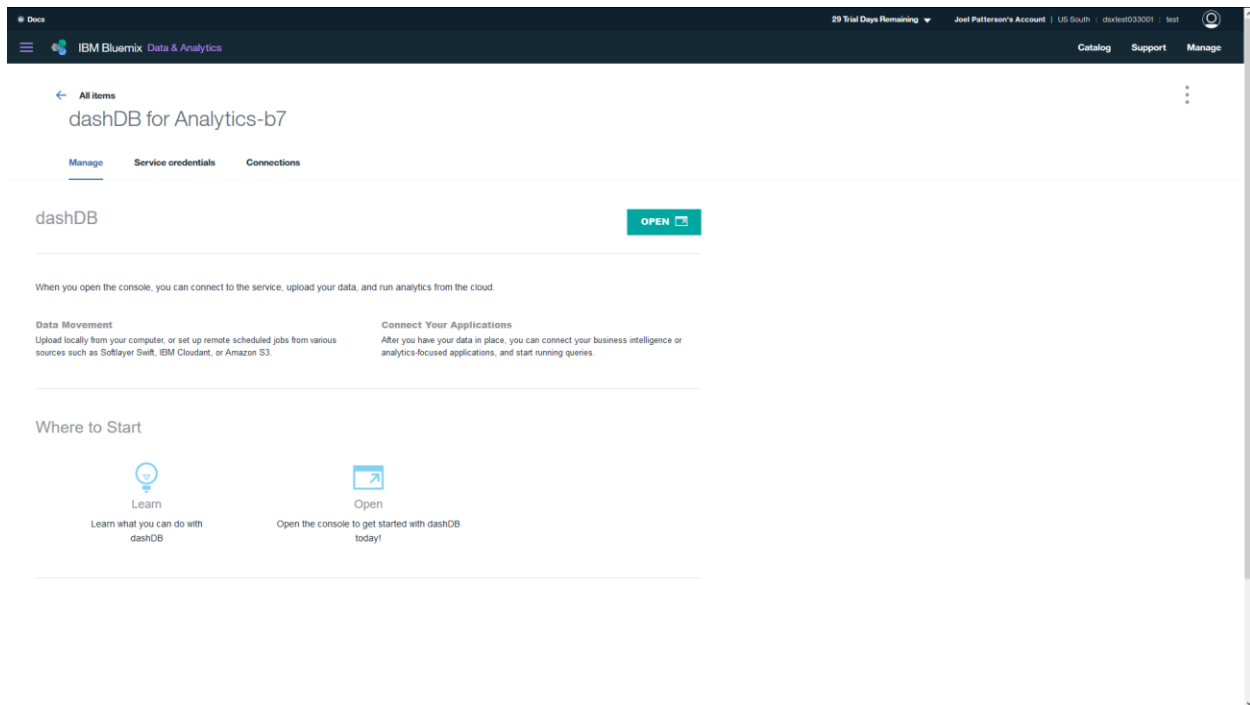
All Services (3) [Create Service](#)

Services 3/10 Used

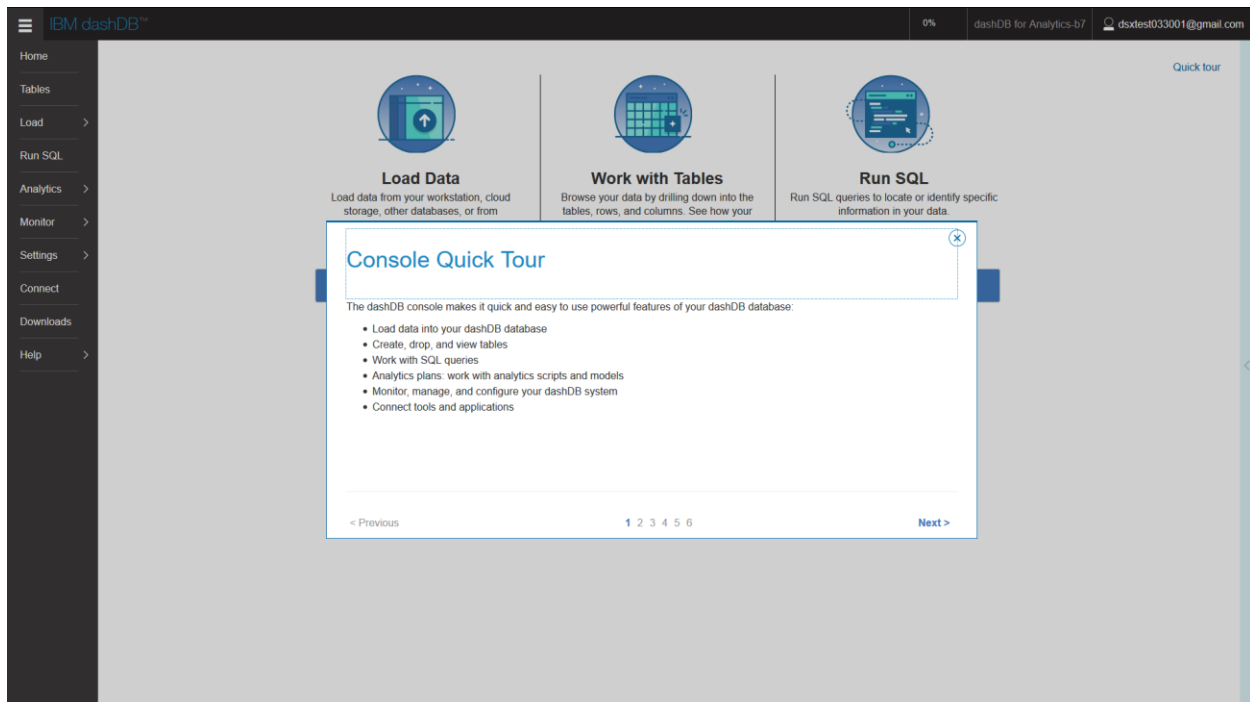
NAME	SERVICE OFFERING	PLAN	ACTIONS
dashDB for Analytics-b7	dashDB for Analytics	IBM dashDB for Analytics Entry	...
DSX-ObjectStorage	Object Storage	Free	...
DSX-Spark	Apache Spark	Personal-Free	...

You have no apps [Create App](#)

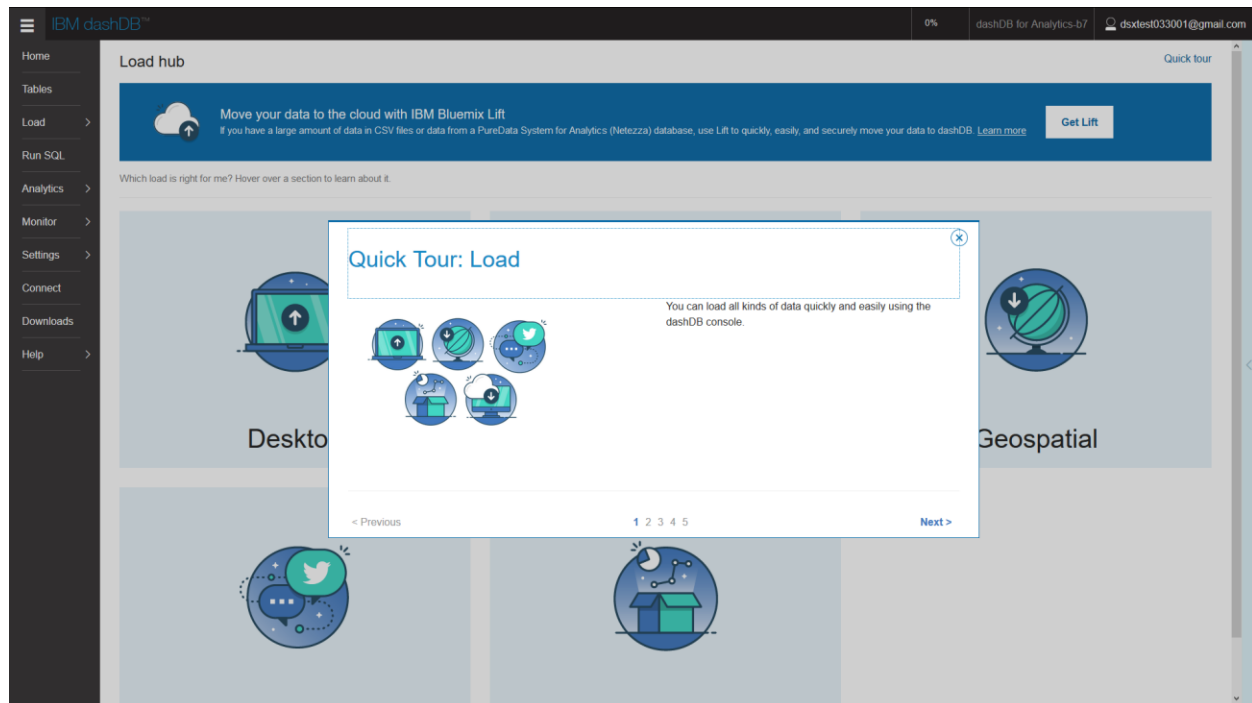
Select the **dashDB for Analytics** service – this brings you to the following



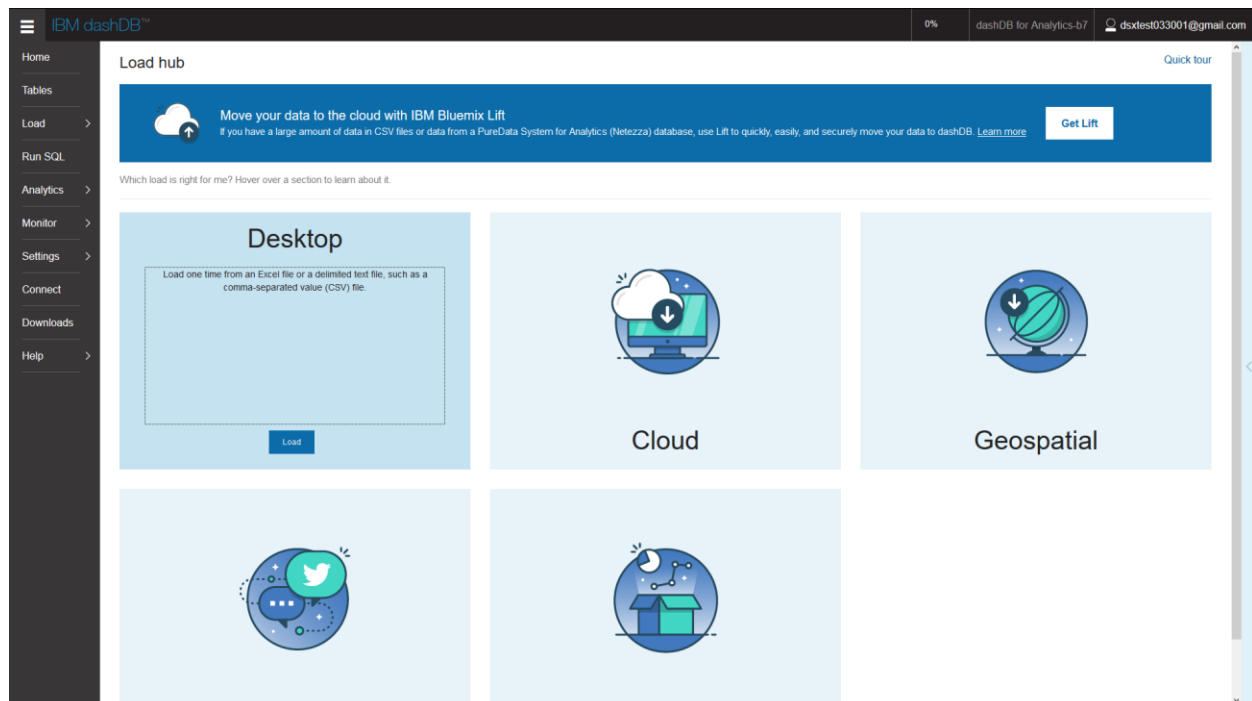
OPEN dashDB



Close the Quick Tour and select **Load Data**



Hover over the various sections to understand your options and then go to **Desktop** and select the **Load** button



Select the `female_trafficking.csv` file which you should have downloaded previously. It does contain dates (Date of Birth) so we will select the proper format (YYYY-MM-DD). Select the **Preview** button.

IBM dashDB™

0%

dashDB for Analytics-b7

dsxtest033001@gmail.com

Home

Tables

Load

Run SQL

Analytics

Monitor

Settings

Connect

Downloads

Help

Load one time from an Excel file or a delimited text file, such as a comma-separated value (CSV) file. [Learn more](#)

1. Specify source file

2. Choose the target

3. Select a table

4. Load complete

Transfer mechanism:

Standard

Faster with Aspera

Install Aspera Connect

Supported file types: CSV, XLS, XLSX

File Name: **female_trafficking.csv**

Upload completed successfully

File characteristics:

Does row one contain the column names?

Yes

No

Code page: 1208

Separator character:

comma

tab

colon

other:

Does the file have columns that contain dates or times?

Yes

No

Date and time formats:

The file has columns that contain only dates.

Format: YYYY-MM-DD

The file has columns that contain only times.

Format: HH:MM:SS

The file has columns that contain both dates and times.

Format: YYYY-MM-DD HH:MM:SS

Cancel

Preview

Verify that the data appears correct and then scroll to the bottom and select **Next**

IBM dashDB™

0%

dashDB for Analytics-b7

dsxtest033001@gmail.com

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Load from desktop

Load one time from an Excel file or a delimited text file, such as a comma-separated value (CSV) file. [Learn more](#)

1. Specify source file

2. Choose the target

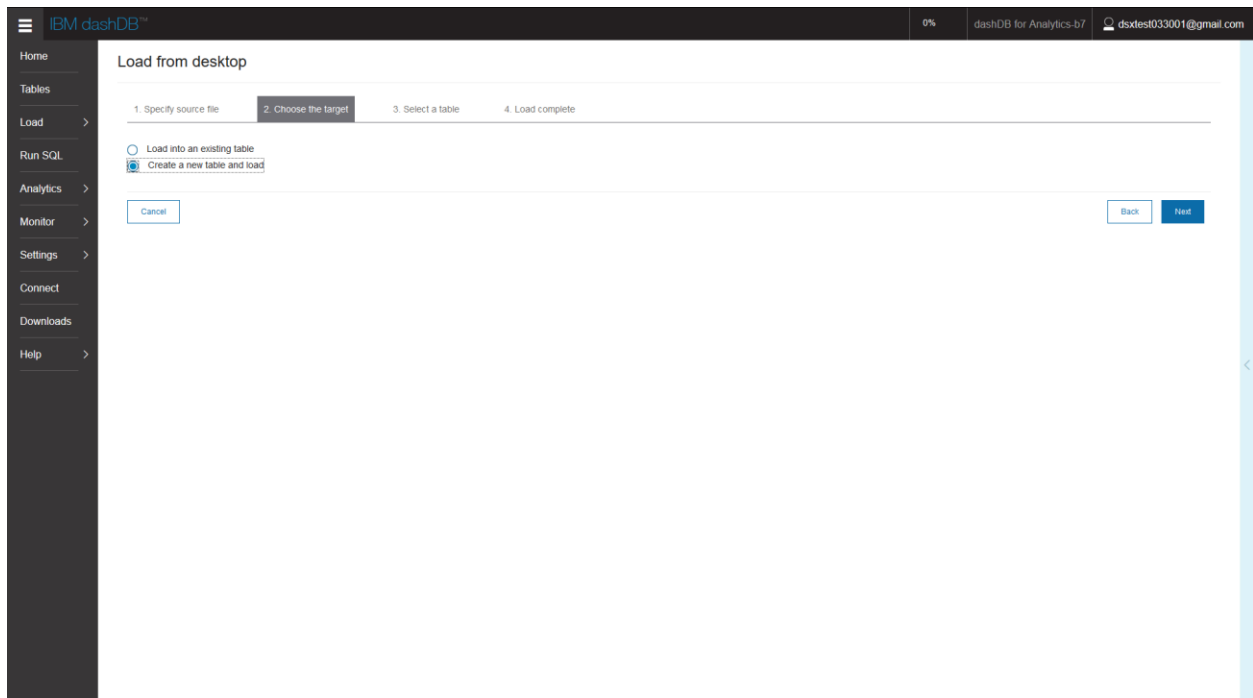
3. Select a table

4. Load complete

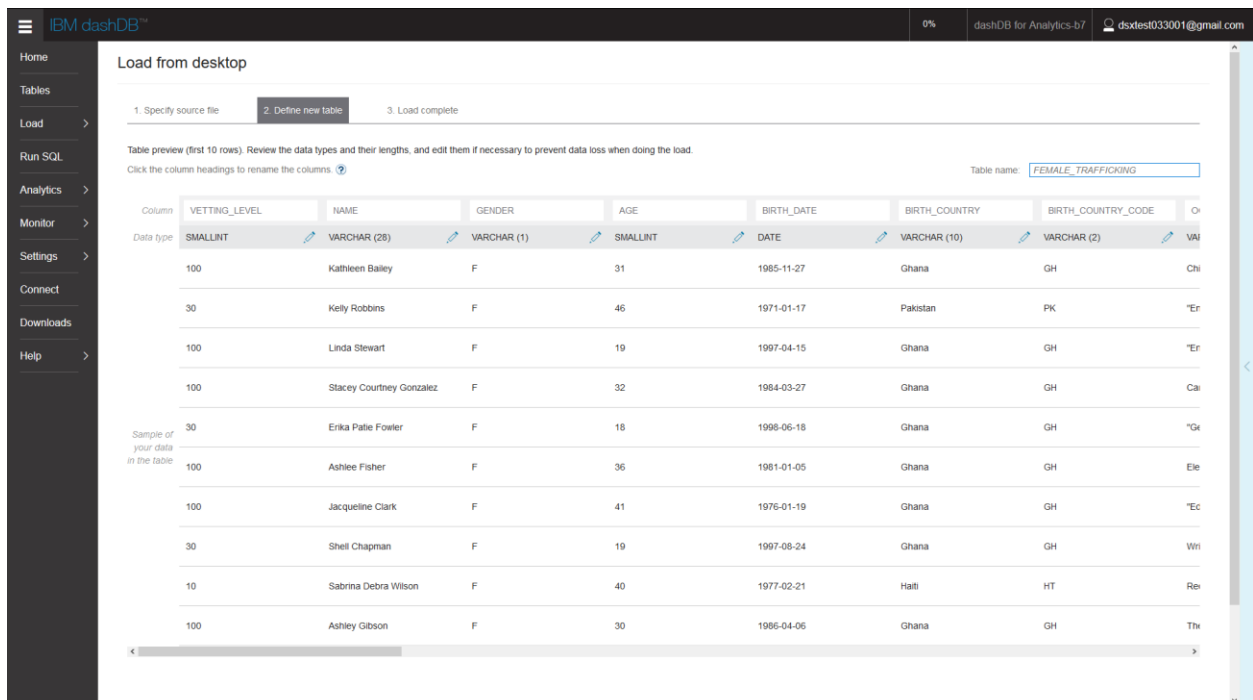
Data preview (first 10 rows): female_trafficking.csv

VETTING_LEVEL	NAME	GENDER	AGE	BIRTH_DATE	BIRTH_COUNTRY	BIRTH_COUNTRY_CODE	OCCUPATION	ADDRESS	SSN
100	Kathleen Bailey	F	31	1985-11-27	Ghana	GH	Chiroprapist	"79421 Jordan Orchard, Lawton, Oklahoma 73507"	885-71-9055
30	Kelly Robbins	F	46	1971-01-17	Pakistan	PK	"Engineer, structural"	"5806 Jacobs Unions, Karval, Colorado 80823"	141-10-9199
100	Linda Stewart	F	19	1997-04-15	Ghana	GH	"Engineer, land"	"824 Kristin Giv, Affantk, Virginia 22303"	011-46-5304
100	Stacey Courtney Gonzalez	F	32	1984-03-27	Ghana	GH	Careers adviser	"322 Hutchinson Cres, Ten Mile, Tennessee 37880"	691-25-2647
30	Erika Patie Fowler	F	18	1996-06-18	Ghana	GH	"Geneticist, molecular"	"07695 Michael Vte St e 394, Wasilla, Alaska 99554"	165-33-8602
100	Ashlee Fisher	F	36	1981-01-05	Ghana	GH	Electronics engineer	"4838 Cassandra Streets Apt. 931, Spring, Texas 77380"	072-16-8742
100	Jacqueline Clark	F	41	1976-01-19	Ghana	GH	"Editor, commissioning"	"1148 Wang Fall Suite 988, Fullerton, California 92823"	634-03-1462
30	Shel Chapman	F	19	1997-06-24	Ghana	GH	Writer	"72346 Wilson Fords Apt. 650, Hawleyville, Connecticut 06440"	004-07-1446

Choose to **Create a new table and load**. Select **Next**



You can change any of the column names, types or the table name if you wish. Scroll to the bottom and select the **Finish** button.



The table is now loaded.

Load from desktop

1. Specify source file 2. Choose the target 3. Define new table 4. Load complete

100%

Loading table **FEMALE_TRAFFICKING** in schema **DASH107602** succeeded

[Load more data](#)

[View the log for this load](#)

Quick Stats:
 Number of rows committed = 1085
 Number of rows deleted = 0
 Number of rows loaded = 1085
 Number of rows read = 1085
 Number of rows rejected = 0
 Number of rows skipped = 0

[View full table structure and details](#)

VETTING_LEVEL	NAME	GENDER	AGE	BIRTH_DATE	BIRTH_COUNTRY	BIRTH_COUNTRY_CODE	OCCUPATION	ADDRESS	SSN
100	Elizabeth Joanna Hernandez	F	30	1986-09-20	Ghana	GH	Mental health nurse	9192 Smith Brooks Apt. 903, Livingston, Montana 59047	096-40-7445
100	Natalie Fernandez	F	26	1990-12-23	Ghana	GH	Designer, jewellery	73091 Prince Heights, Denver, Colorado 80523	502-77-4624
100	Amanie Taylor	F	30	1986-06-23	Ghana	GH	Corporate investment	7889 Stephanie P	651-61-9133

Total: 100 Selected: 0

Adding dashDB as a DSX Data Source

You should continue with this section once you reach the point to add the data source credentials. Let's make the dashDB instance visible in DSX. We're going to have to add it as a Data Source. In the lab you have reached the following section.

Insert the database connection credentials

Click on the cell below, then on the notebook toolbar, 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.

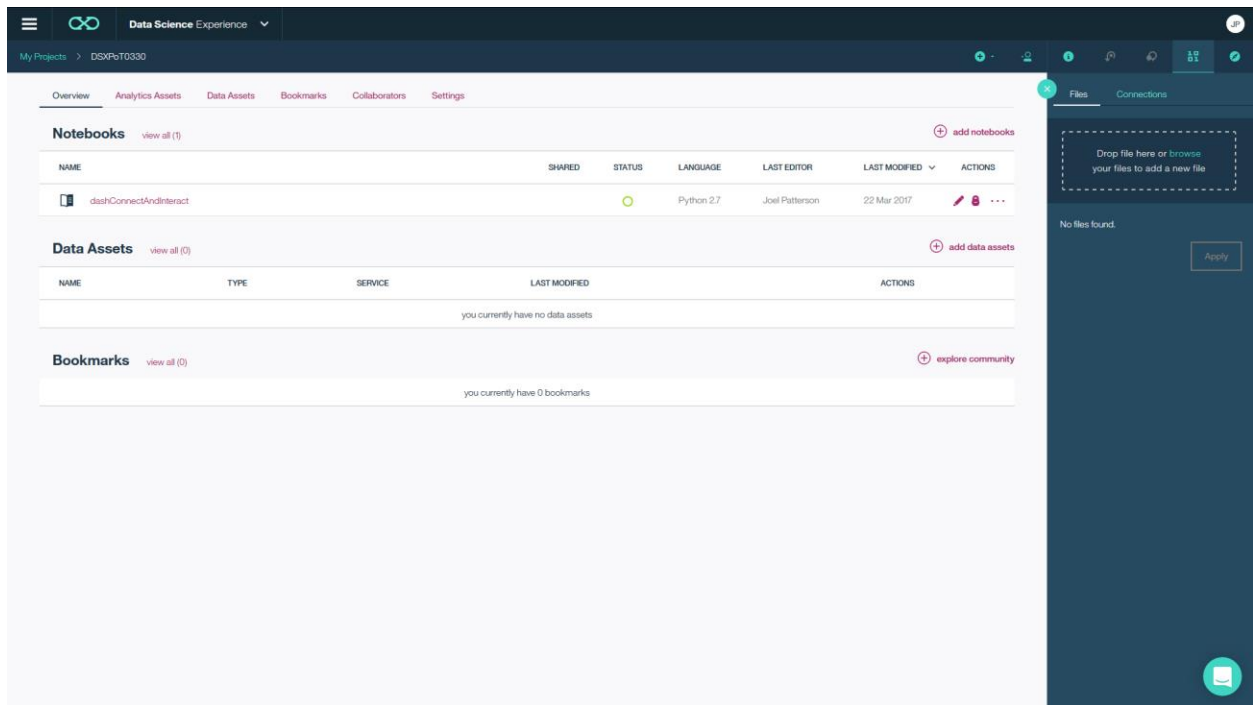
Access dashDB and explore the data with Python

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

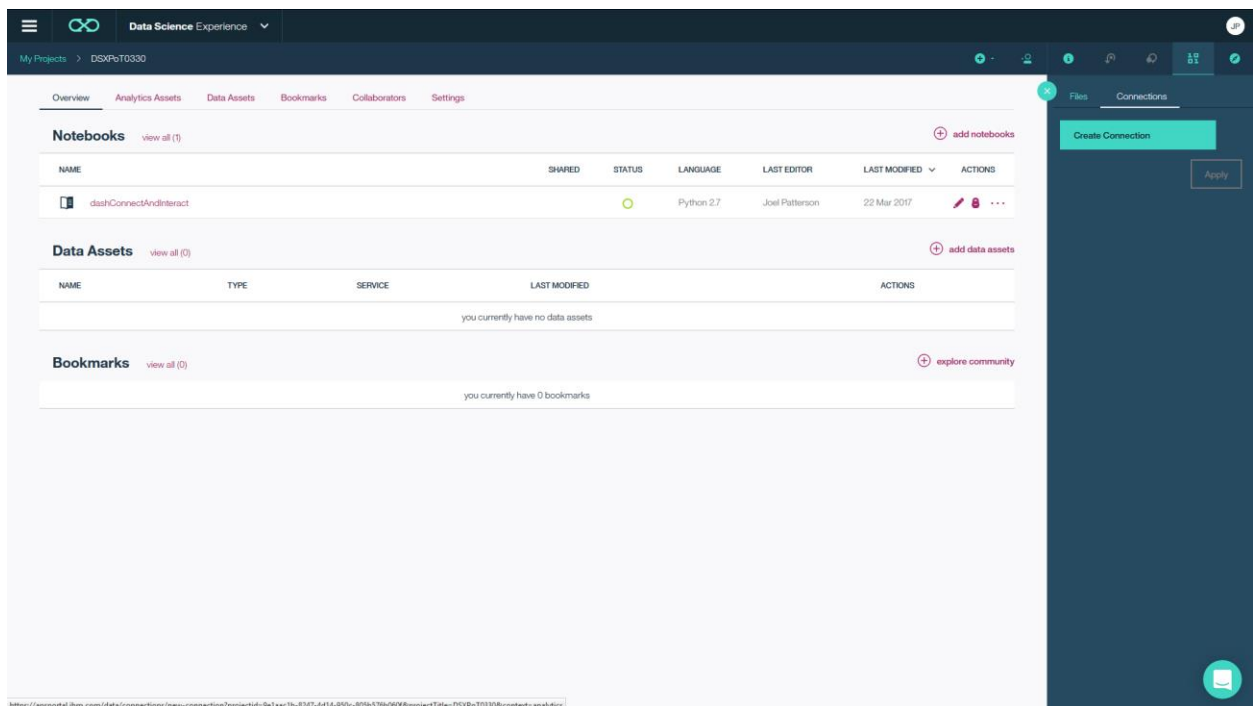
Connections

You haven't added any connections to data services yet. You can add connections on the project page.

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



Select **Connections** and then **Create Connection**



Pick a name for your dashDb connection (I used myDashDb), an optional description, and then select the **Service Instance** (name will vary) and **Database** (BLUDB).

Create.

Data Science Experience

New Connection

Name

myDashDb

92

Description

The connection to the dashDb instance I created in Bluemix

2942

Service Category

☒ Data Service

☐ External

Service Instance

dashDB for Analytics: dashDB for Analytics-b7

Database

BLUDB

Create

Cancel

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

Data Science Experience

My Projects > DSXPeT0330

Overview

Analytics Assets

Data Assets

Bookmarks

Collaborators

Settings

Notebooks

view all (1)

+ add notebooks

NAME	SHARED	STATUS	LANGUAGE	LAST EDITOR	LAST MODIFIED	ACTIONS
dashConnectAndInteract			Python 2.7	Joel Patterson	22 Mar 2017	

Data Assets

view all (1)

+ add data assets

NAME	TYPE	SERVICE	LAST MODIFIED	ACTIONS
myDashDb	Connection	dashDB	22 Mar 2017	

Bookmarks

view all (0)

+ explore community

you currently have 0 bookmarks

Files

Connections

Drop file here or browse your files to add a new file

No files found.

Apply

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

Data Science Experience

My Projects

>

D5XPhT039Q

>

dashConnectAndInteract

File

Edit

View

Insert

Cell

Kernel

Help

Python 2 with Spark 2.0

Files

Connections

myDashDb

Insert to code

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