

# Creating a dashDB instance in Bluemix



Selecting the dashDB icon **dashDB** 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 dashDB create screen.

The screenshot shows the IBM Bluemix Catalog page for 'dashDB for Analytics'. The page has a dark blue header with 'IBM Bluemix Catalog' on the left and 'Docs', 'Catalog', 'Log In', and 'Sign Up' on the right. Below the header, there's a 'View all' link and the title 'dashDB for Analytics'. The main content area is divided into several sections: a description of the service, a list of features, a section for images, and a pricing table. The pricing table has three columns: PLAN, FEATURES, and PRICING. The first plan listed is 'IBM dashDB for Analytics Entry' with a price of '\$50.00 USD/Monthly'. At the bottom of the page, there are links for 'Need Help? Contact Bluemix Sales' and 'Already have an account? Log In', along with a 'Sign up to Create' button.

IBM Bluemix Catalog Docs Catalog Log In Sign Up

← View all  
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.

EM

View Docs

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

### Features

- **Powerful**  
Combining the best of DB2 and Netezza technology with in-memory data processing, columnar tables, and in-database analytics.
- **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.
- **Fully managed, safe, and secure**  
Includes daily backups, at-rest database encryption, and SSL connections.

### 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](#)

Select **Log In**

**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](#)

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

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

Search Items

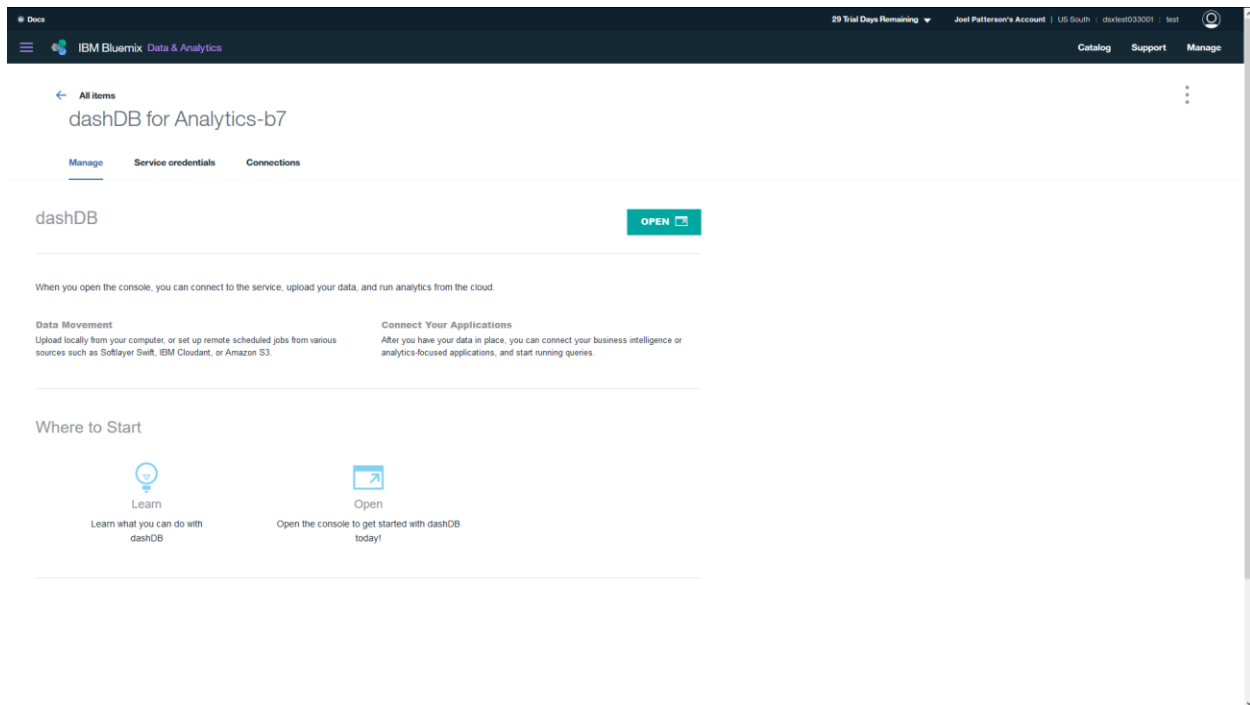
All Services (3) [Create Service](#)

Services 3/10 Used

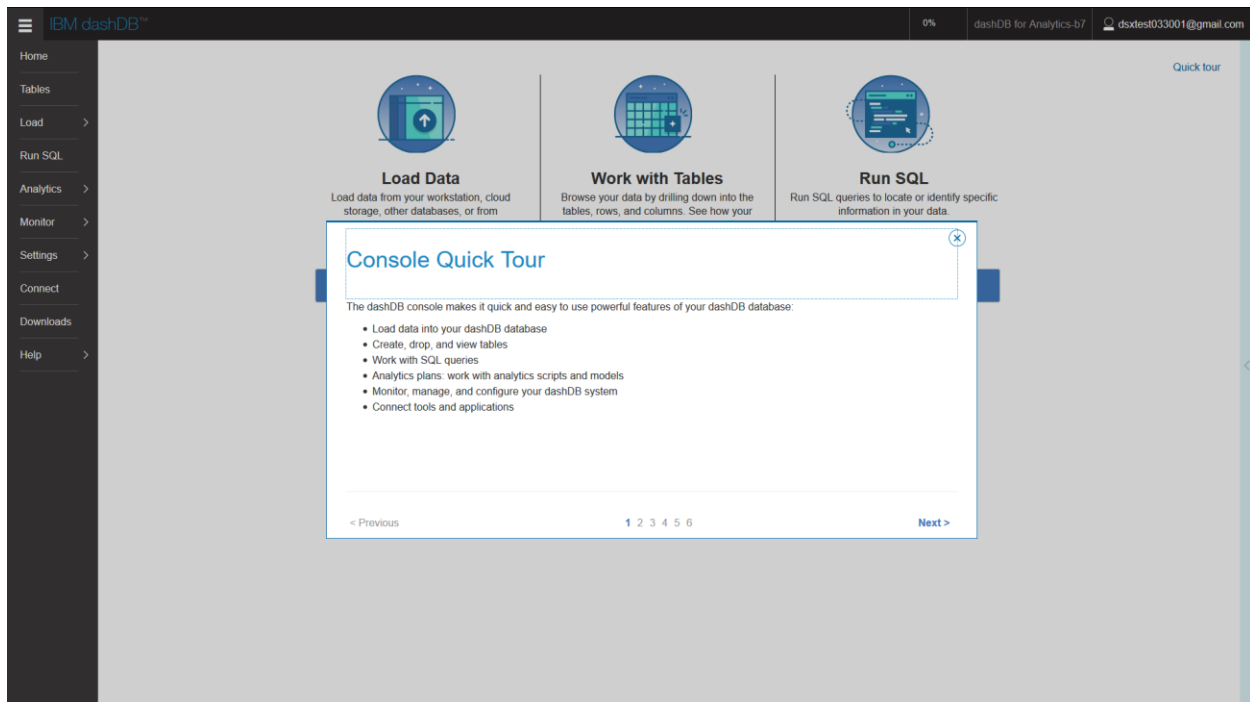
NAME	SERVICE OFFERING	PLAN	ACTIONS
dashDB for Analytics-b7	dashDB for Analytics	IBM dashDB for Analytics Entry	⋮
DSX-ObjectStorage	Object Storage	Free	⋮
DSX-Spark	Apache Spark	Personal-Free	⋮

You have no apps [Create App](#)

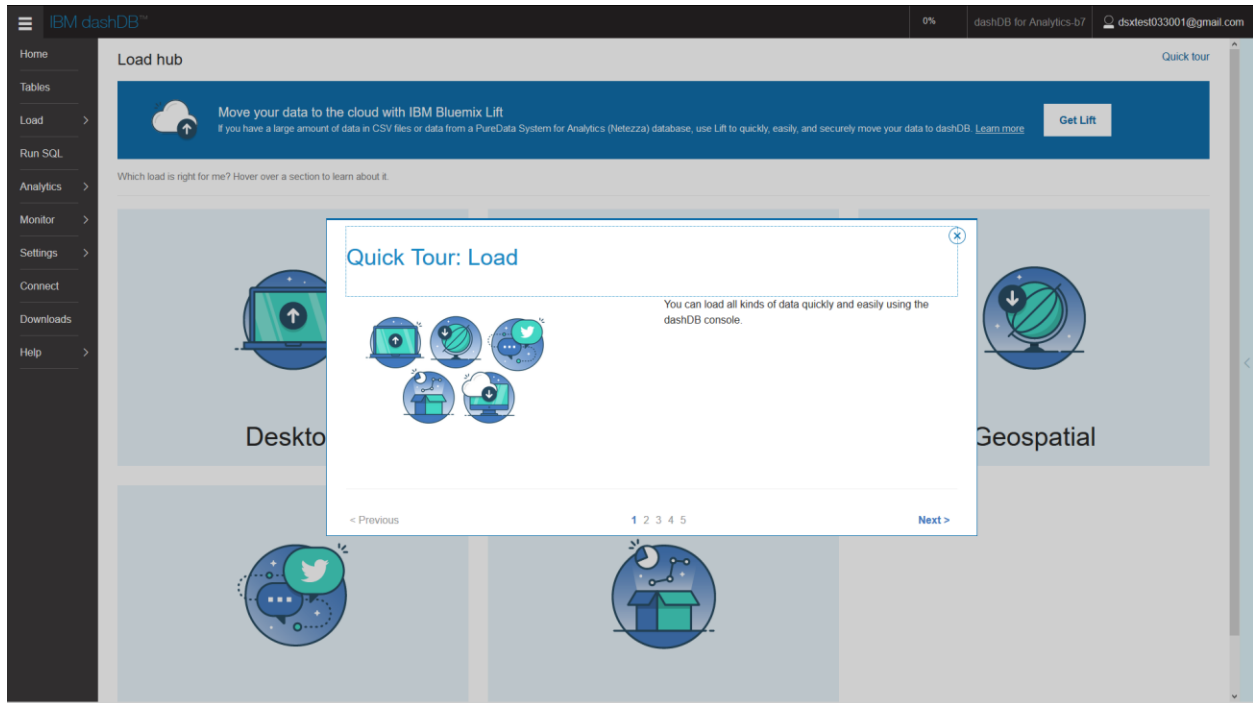
Select the **dashDB for Analytics** service – this brings you to the following



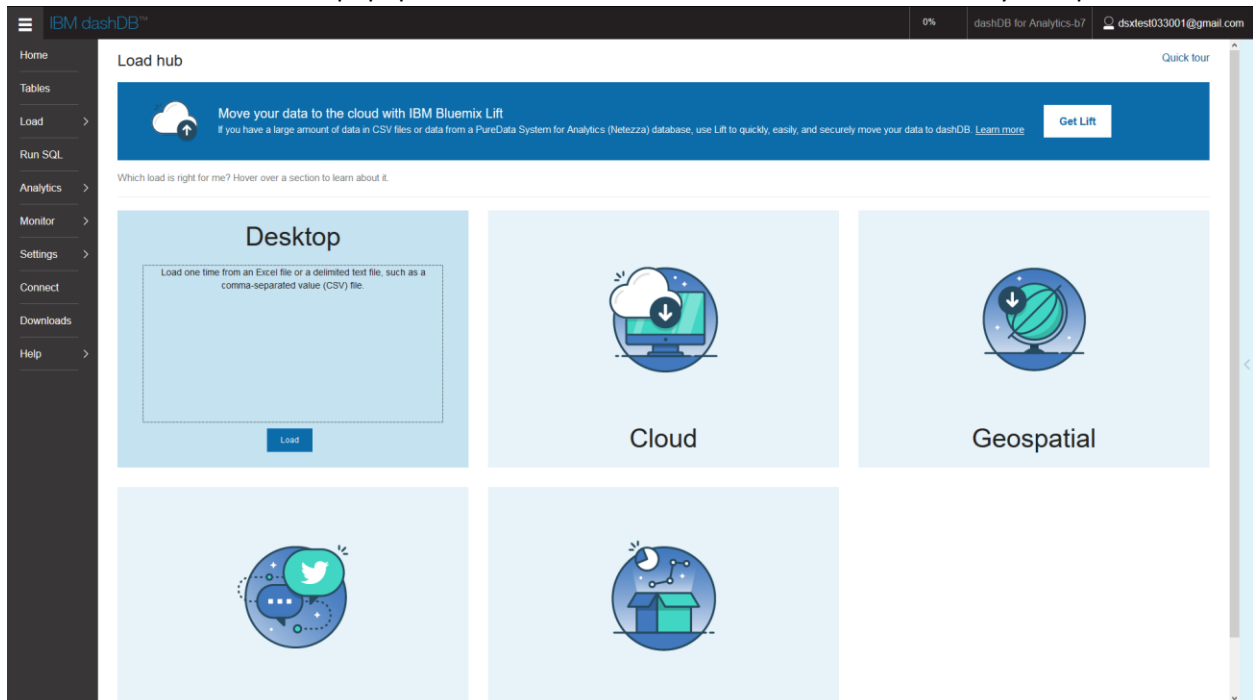
Select **OPEN** to open the dashDB console.



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



Close the **Quick Tour: Load** popup. Hover over the various sections to understand your options.



Go to **Desktop** and select the **Load** button

Select the **female\_human\_trafficking.csv** file which you should have downloaded previously.

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

Row one does contain the column names so set that to **Yes**.

It does contain dates (Date of Birth) so set that value to **Yes** as well.

Select the proper date format (YYYY-MM-DD). Select the **Preview** button.

Load from desktop

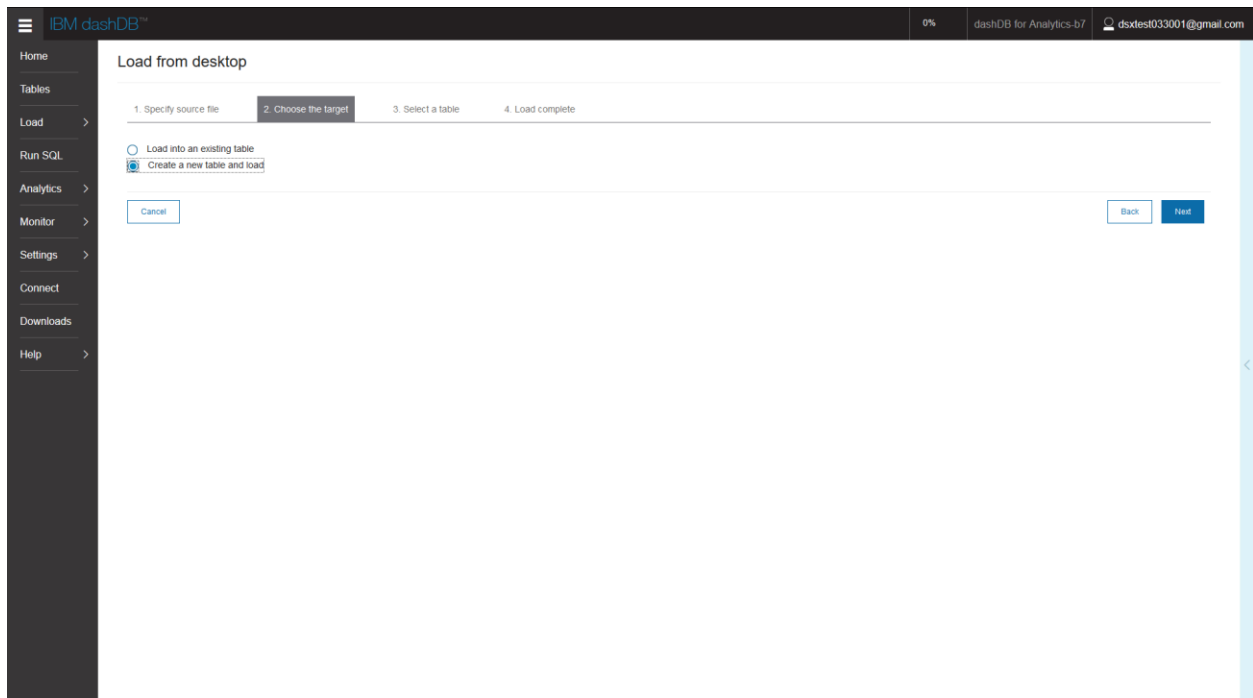
Load one time from an Excel file or a delimited text file, such as a comma-separated value (CSV) file. [Learn more](#)

1. Specify source file 2. Choose the target 3. Select a table 4. Load complete

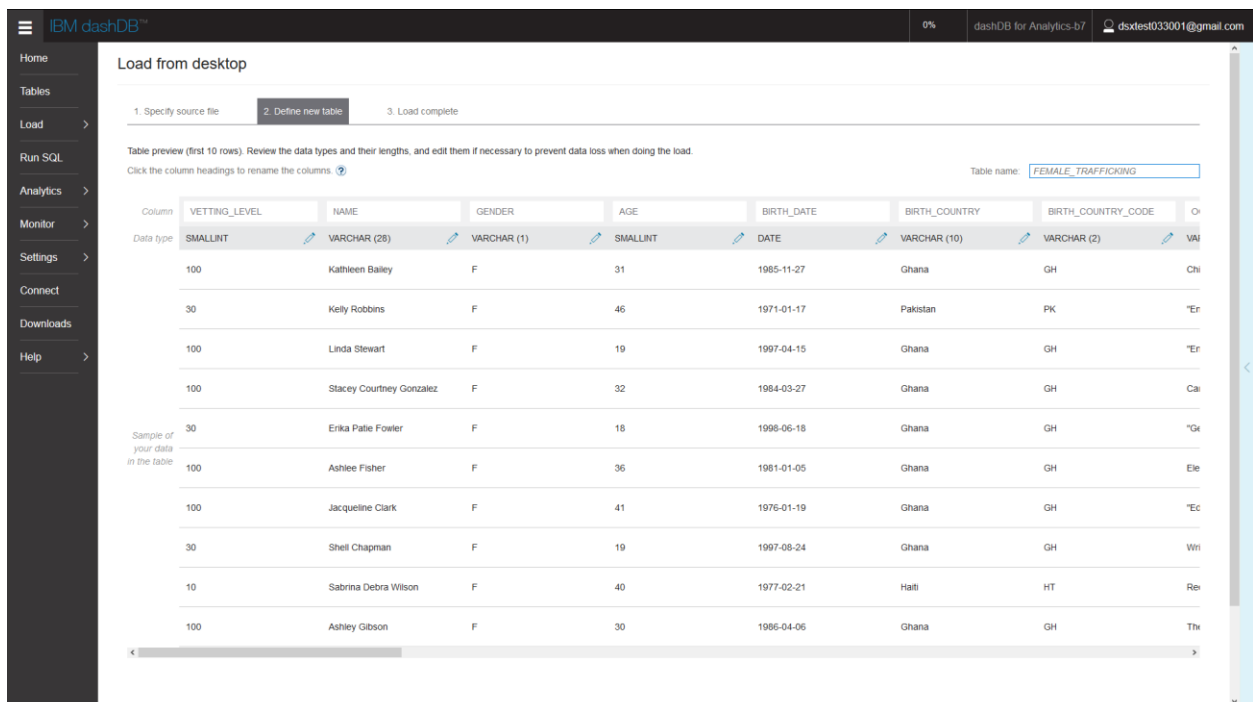
Data preview (first 10 rows): female\_trafficking.csv

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"	"5808 Jacobs Unions, Karval, Colorado 80823"	141-10-9199
100	Linda Stewart	F	19	1997-04-15	Ghana	GH	"Engineer, land"	"624 Kristin Grv, Altant k, Virginia 32303"	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	1998-06-18	Ghana	GH	"Geneticist, molecular"	"07695 Michael Vis Ste 394, Vasilila, Alaska 96954"	165-33-0802
100	Ashlee Fisher	F	36	1981-01-05	Ghana	GH	Electronics engineer	"4836 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	Shelli Chapman	F	19	1997-08-24	Ghana	GH	Writer	"72346 Wilson Fords Apt. 650, Hawleyville, Connecticut 06440"	004-07-1446

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



Choose to **Create a new table and load**. Select **Next** (note: this may happen automatically)



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.

IBM dashDB™

0%

dashDB for Analytics-b7

dsatest033001@gmail.com

Home

Tables

Load

Run SQL

Analytics

Monitor

Settings

Connect

Downloads

Help

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](#)

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 the log for this load](#)

[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 Heig his, Denver, Colorado 80623	502-77-4624
100	Amanie Tavior	F	30	1986-06-23	Ghana	GH	Corporate investm	7889 Stephanie P	651-61-9133

Total: 100 Selected: 0

1 2 3 4

10 | 25 | 50

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

Now that a dashDB instance has been created, add it as a source to DSX in the next section.

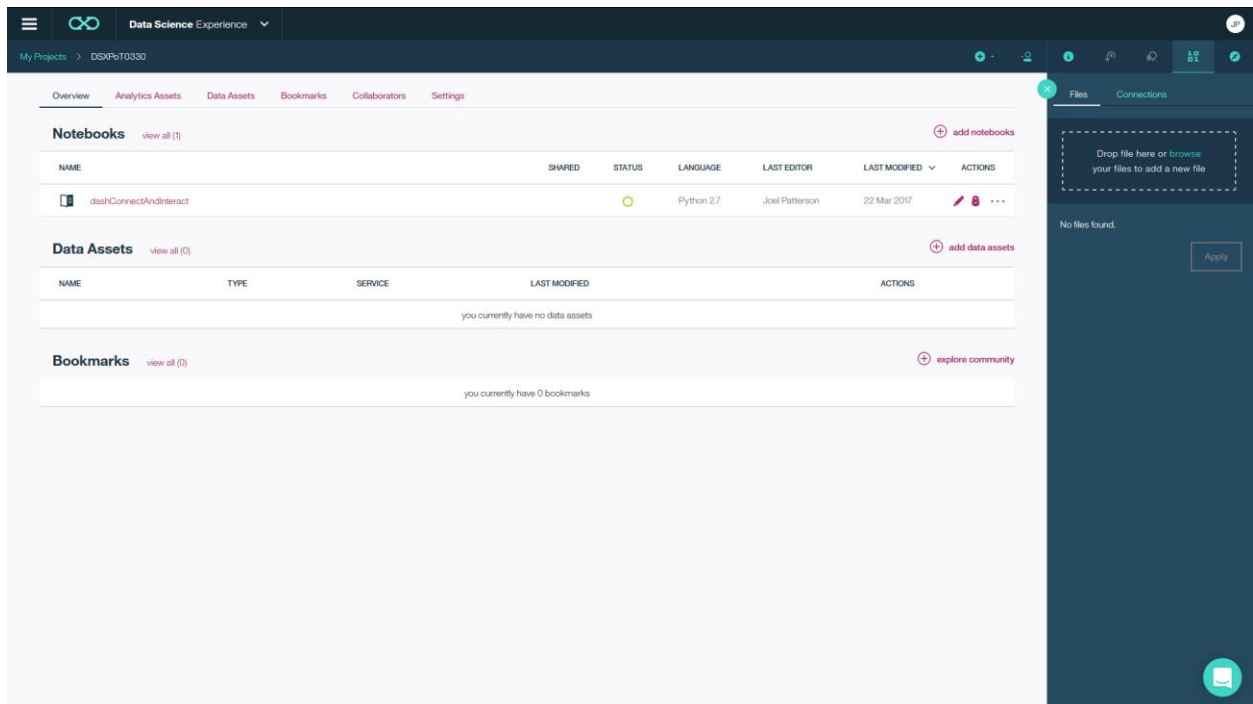
# Adding dashDB as a DSX Data Source

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.

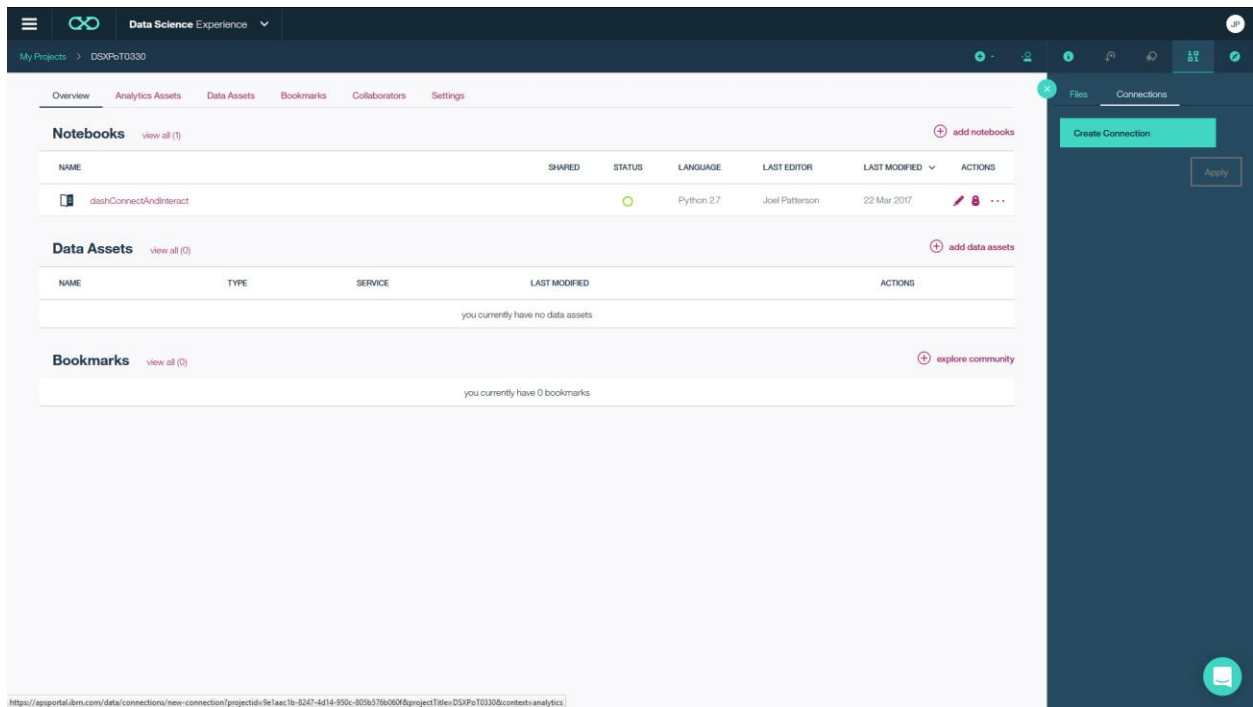


Select **project page** to create a new tab in your browser displaying the project page:



Select **Connections**.





## Select Create Connection

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

**Create.**

The screenshot shows the 'Data Science Experience' dashboard. The top navigation bar includes a menu icon, a logo, and the text 'Data Science Experience'. Below this, a breadcrumb trail reads 'My Projects > DSXPeT0330'. The main content area is divided into three sections: 'Notebooks', 'Data Assets', and 'Bookmarks'. The 'Data Assets' section is currently active, displaying a table with one entry: 'myDashDb'. The table has columns for NAME, TYPE, SERVICE, LAST MODIFIED, and ACTIONS. The 'myDashDb' entry is of type 'Connection' and service 'dashDB', last modified on '22 Mar 2017'. To the right of the table is a sidebar with 'Files' and 'Connections' tabs. The 'Connections' tab is selected, showing a message 'No files found.' and an 'Apply' button. The 'Data Assets' section also has a '+ add data assets' button.

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

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

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

The screenshot shows the 'Data Science Experience' notebook editor. The top navigation bar includes a menu icon, a logo, and the text 'Data Science Experience'. Below this, a breadcrumb trail reads 'My Projects > DSXPeT0330 > dashConnectAndInteract'. The main content area is a notebook editor with a title 'Access dashDB and explore the data with Python'. The notebook content includes a paragraph: '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.' The notebook is running on 'Python 2 with Spark 2.0'. To the right of the notebook is a sidebar with 'Files' and 'Connections' tabs. The 'Connections' tab is selected, showing a list of connections: 'myDashDb' with an 'Insert to code' button.

**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.

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