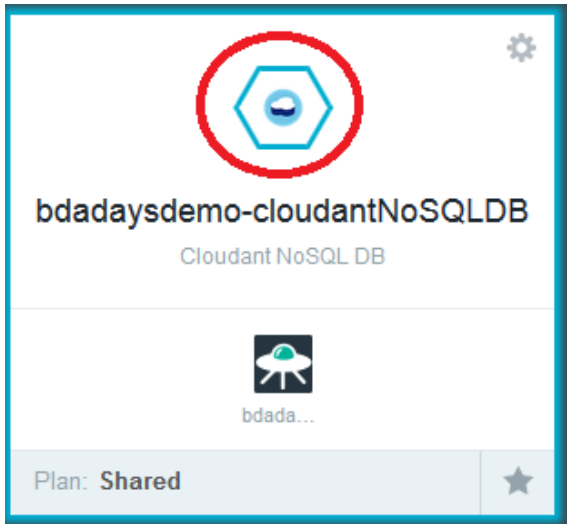
Managing instances of IBM Bluemix DBaaS services

After you complete this unit, you should understand:

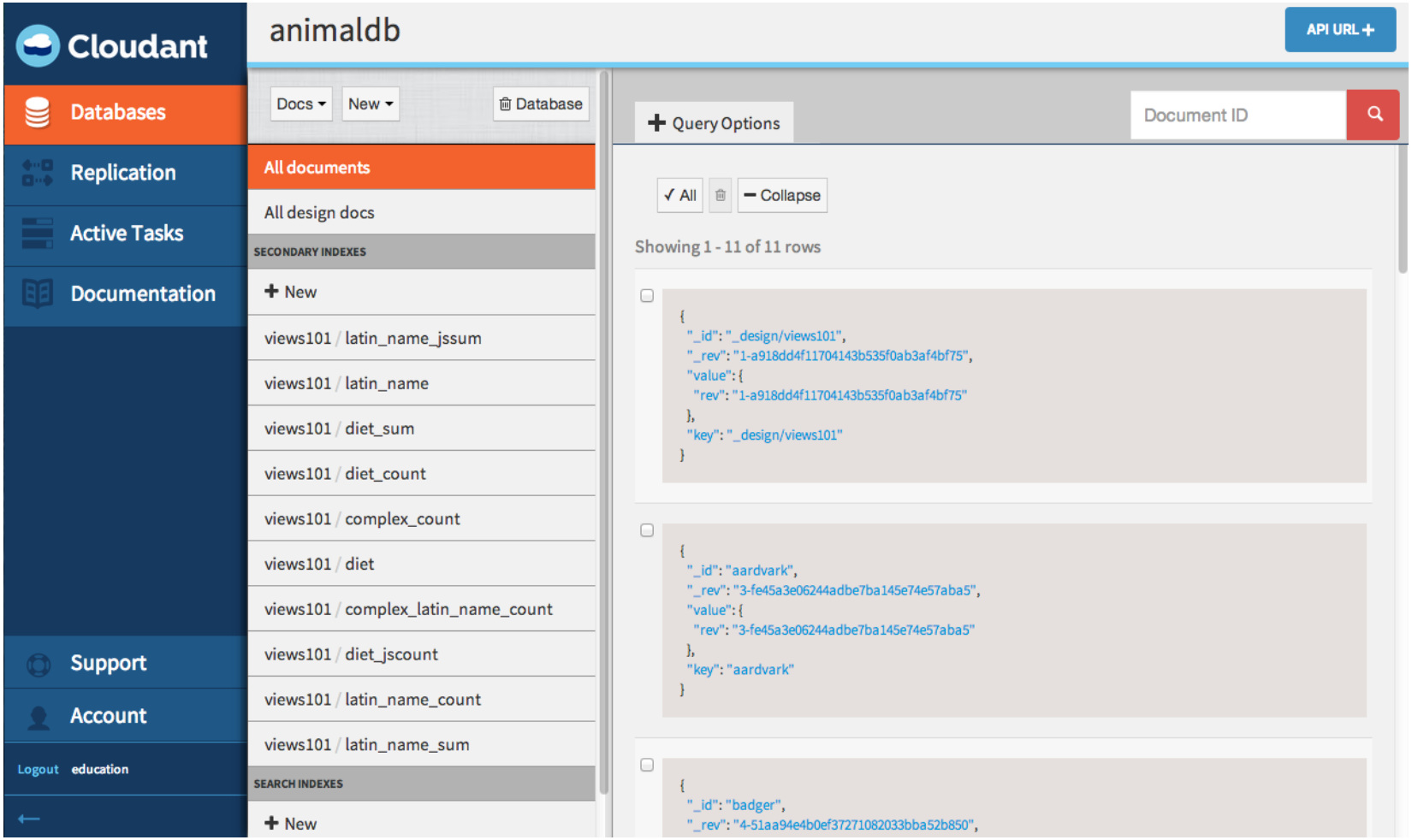
- The tools that you can use to manage the following DBaaS services in IBM Bluemix:
  - Cloudant NoSQL DB
  - dashDB
  - SQL Database

Cloudant NoSQL DB Dashboard

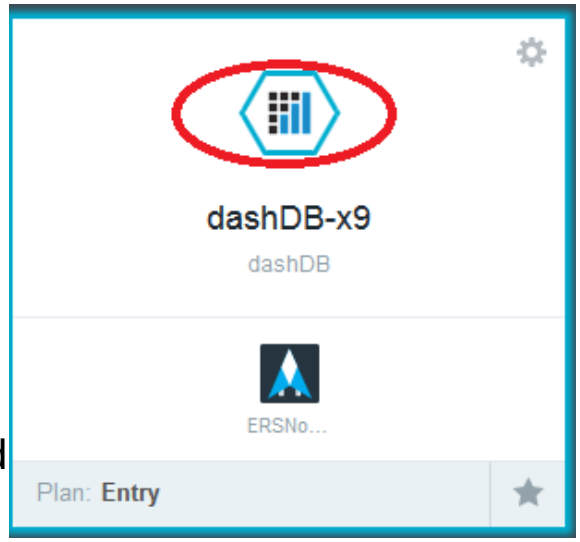


- Launched from the service icon's hexagon
- Uses the Cloudant API to provide the following capabilities:
  - Create and delete databases
  - Create, read, update, and delete data
  - Manage permissions and active tasks
  - Replicate or share databases

Cloudant Dashboard

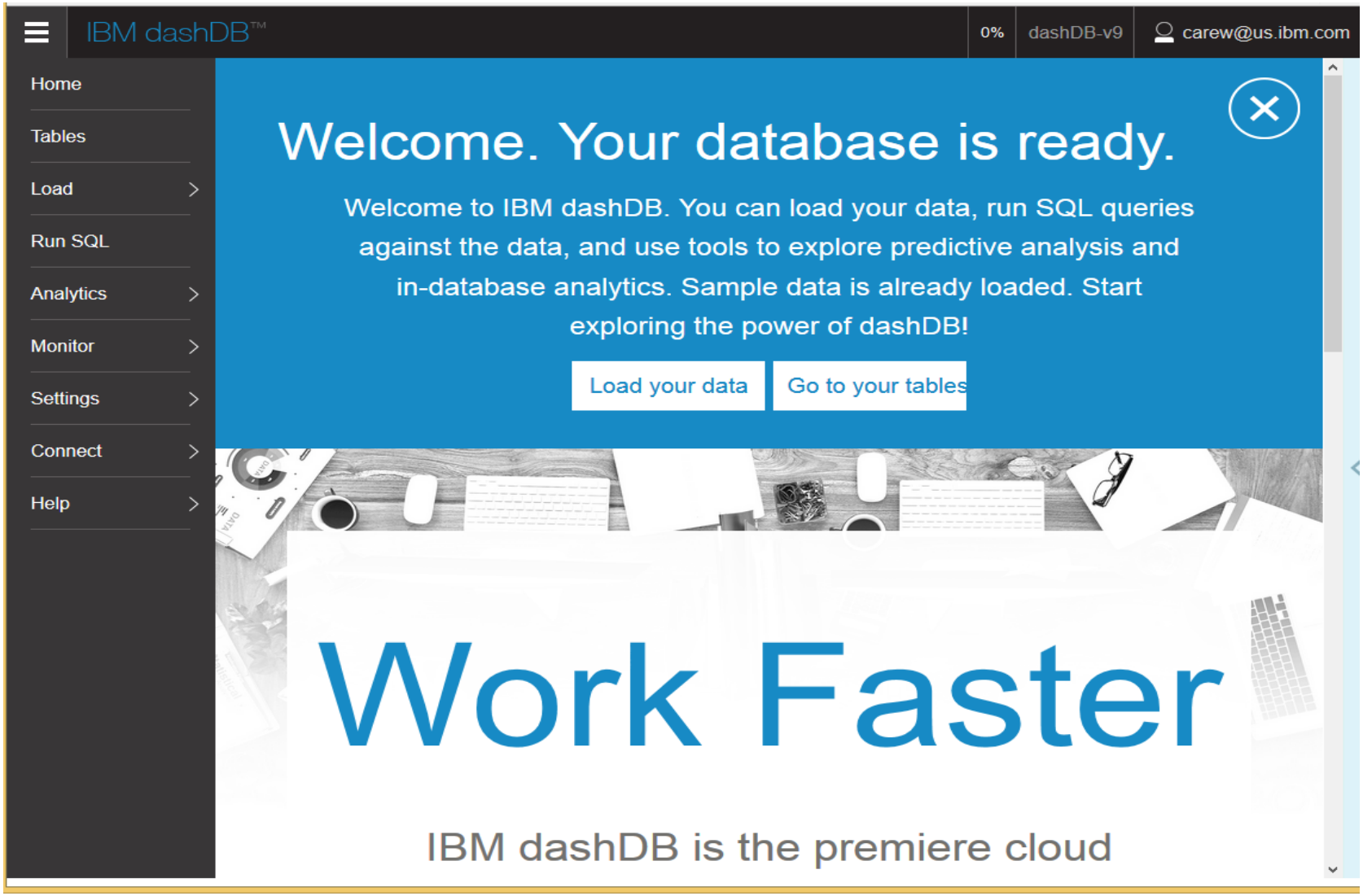


dashDB Console



- Launched from the service icon's hexagon
- Provides the following capabilities:
  - Load
    - Load data into dashDB from your workstation, cloud storage, other databases, or from on-premises servers
  - Work with tables
    - Browse your dashDB data by drilling down into the tables, rows, and columns
  - Run SQL
    - Run SQL queries to locate or identify specific information in your data
  - Analytics with R
    - Run R Scripts to develop statistical models and plot their results based on dashDB data
    - Provides an integrated RStudio environment that you can use to develop R scripts and analyze your data

dashDB Console



dashDB Console: Running R Scripts

Run R scripts to analyze, manipulate, and visualize your data

Create a new script, import a script, or use a sample script. Learn more

RStudio | Import

Sample Projects

- In-Application Analytics
  - Customer Acquisition
  - Customer Churn
  - Customer Winback
  - Server Memory Usage
- In-Database Analytics
  - Server Memory Usage
  - Customer Segmentation (k-means)
  - Customer Churn (naive Bayes)
  - Market Basket Analysis
- Data Visualization
  - Education Level by Gender
  - Veteran Status by Gender
  - Class of Worker

My Projects

Learn More

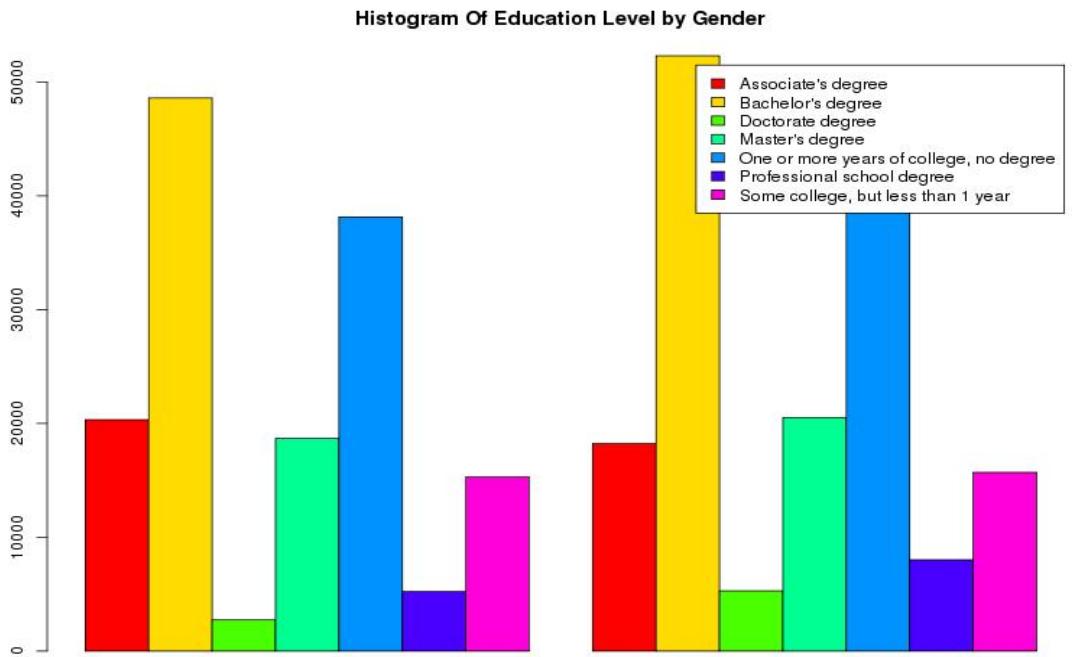
Script Name: Education Level by Gender

Description: This sample shows how to use R visualization to understand how the education level is distributed among males and females.

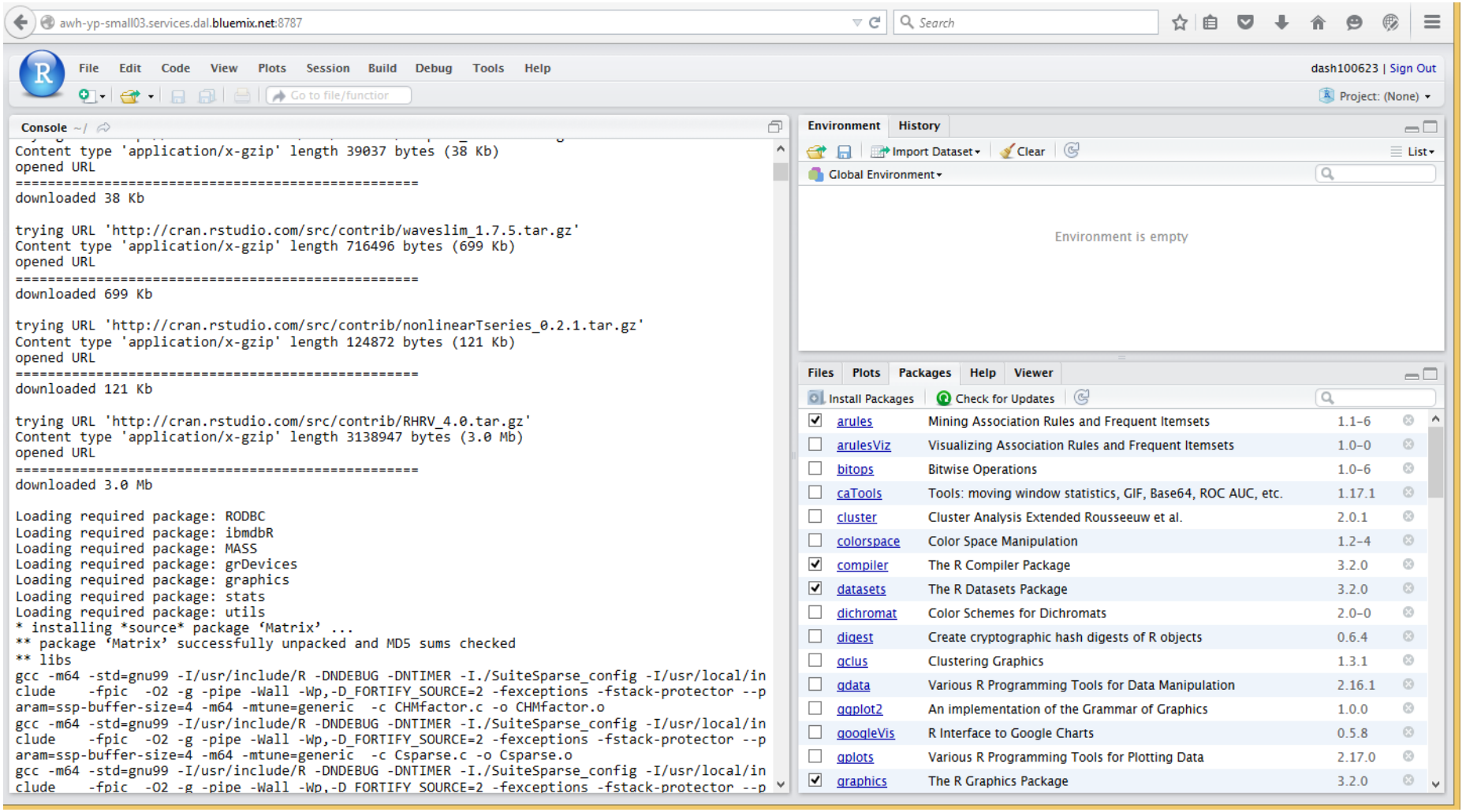
Click **Submit** to generate a plot. Errors, warnings, or messages are sent to the Console Output page.

Script | Console Output | **Plots**

CSV PDF



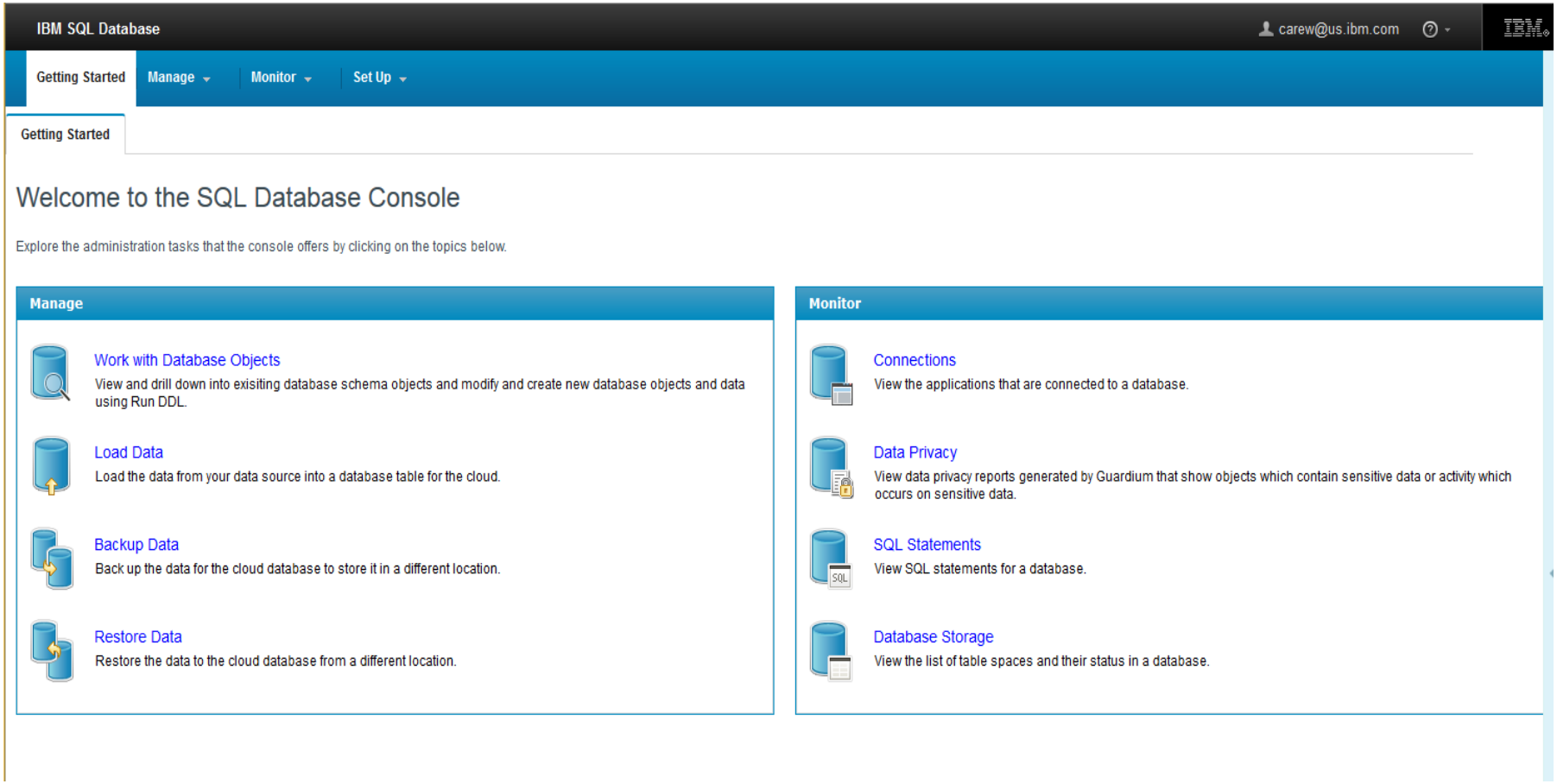
dashDB Console: Running RStudio



SQL Database Console

- Launched from the service icon's hexagon
- Provides the following capabilities:
  - Manage
    - Work with database objects
      - View existing database objects, modify and create new database objects, and run queries
    - Load Data
      - Load data from external sources
    - Backup Data
      - Back up databases
    - Restore Data
      - Restore databases
  - Monitor
    - Connections
      - View all connections to the database
    - Data Privacy
      - View data privacy reports generated by Guardium that show objects that contain sensitive data or activity that occurs on sensitive data
    - SQL Statements
      - View previously executed SQL statements
    - Database Storage
      - View the list of table spaces and their status

SQL Database Console: Landing page



Summary

- In this unit, you learned about the tools available to manage the following DBaaS services in IBM Bluemix:
  - Cloudant NoSQL Database service
    - Web-based dashboard built on of Cloudant API
  - dashDB service
    - Web-based console that manages data import, database management, and analytics by using R
  - SQL database service
    - Web-based console enables database management and monitoring capabilities