

Steps to create Bluemix application demonstrating integration of database

*through cloud foundry command line

a) Login to Bluemix UK Region from cloud foundry command line using the cf command:
cf login -a https://api.eu-gb.bluemix.net

```
C:\Users\IBM_ADMIN>cf login -a https://api.eu-gb.bluemix.net
```

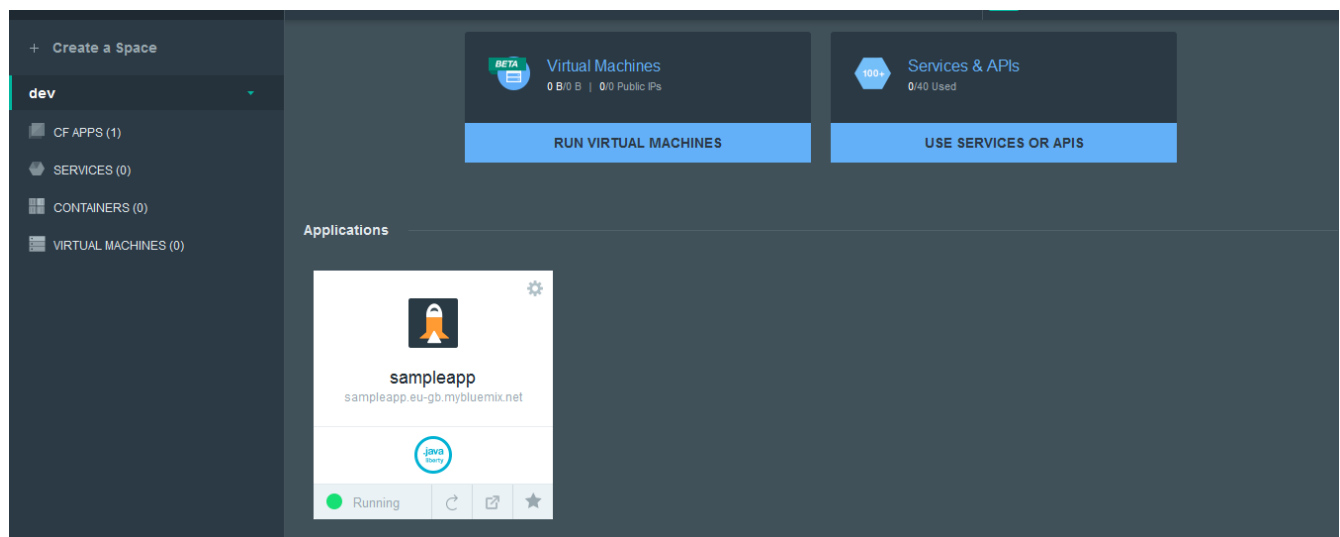
b) Push your application using cf command:
cf push <app_name> -p <specify_the_path_of_application>

Eg: cf push sampleapp -p C:\files\twilio-app.war

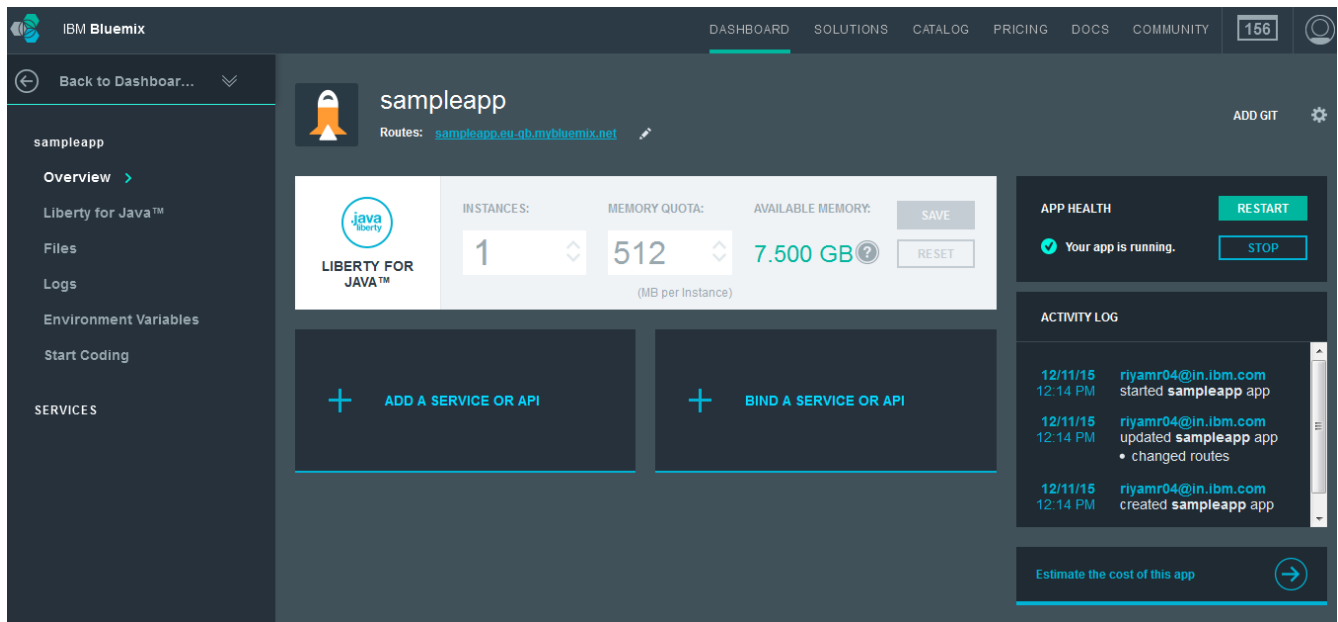
```
OK
App sampleapp was started using this command '.liberty/initial_startup.rb'
Showing health and status for app sampleapp in org riyamr04@in.ibm.com / space d
ev as riyamr04@in.ibm.com...
OK
requested state: started
instances: 1/1
usage: 512M x 1 instances
urls: sampleapp.eu-gb.mybluemix.net
last uploaded: Fri Dec 11 06:44:31 UTC 2015

#0    state    since                cpu    memory    disk
#0    running  2015-12-11 12:15:38 PM  1.1%   196.7M of 512M  181M of 1G
```

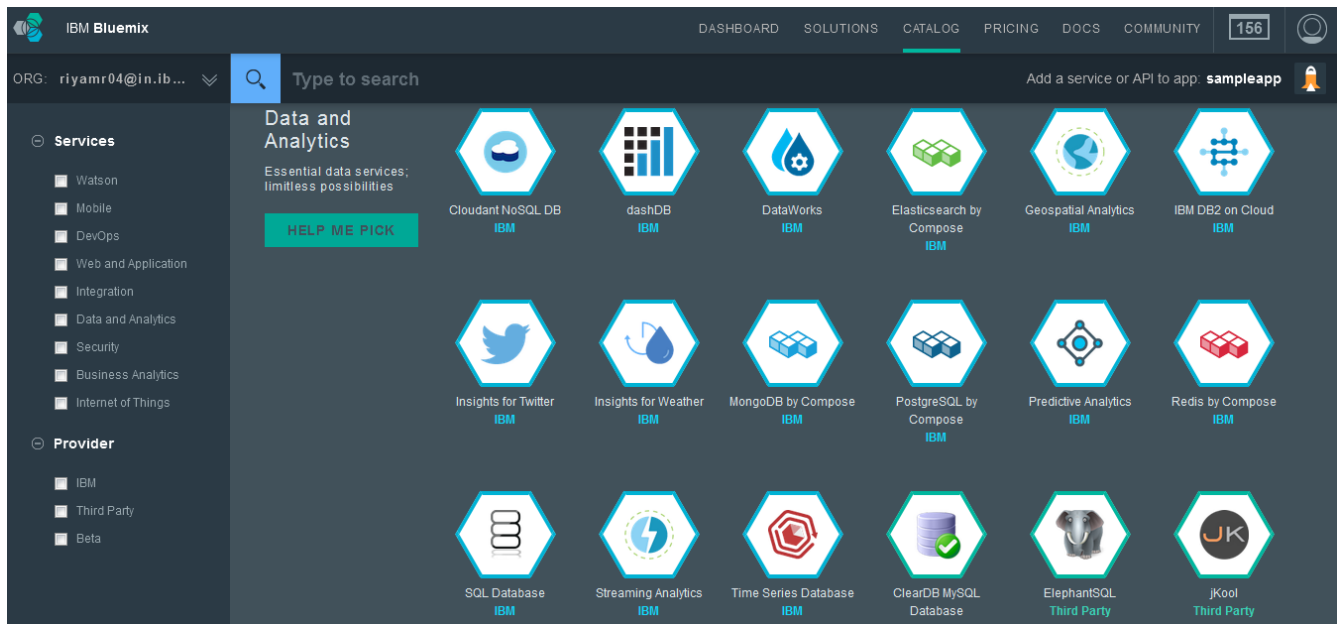
c) Goto Bluemix Dashboard and click on your application



d) Click on **ADD A SERVICE OR API** in the Bluemix application page



e) Go to Data and Analytics section and choose **SQLDB** as database for the application



f) Enter service name as **registerdb** and click on **CREATE**

The screenshot shows the IBM Bluemix console interface. On the left, the 'SQL Database' service is selected, showing its details and a 'VIEW DOCS' button. The main area displays the 'Pick a plan' section with two options: 'Free Beta' and 'Premium'. The 'Free Beta' plan is selected, showing a limit of 100 MB per instance and 10 concurrent connections. The 'Premium' plan shows 500 GB max storage per instance and 100 concurrent connections. On the right, the 'Service name' field is set to 'registerdb', and the 'Selected Plan' is 'Free Beta'. A green 'CREATE' button is visible at the bottom right.

managed database service to handle web and transactional workloads.

- **Fully Managed**
Allows you to focus on your application instead of worrying about time-consuming administration of your database server.
- **Secure and Private**
SSL encryption will be standard on all plans. Includes advanced security features such as data masking (powered by InfoSphere Optim) and sensitive data reporting (powered by InfoSphere Guardium).

Pick a plan

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

Plan	Features	Price
✓ Free Beta	Limit of 100 MB per instance. 10 concurrent connections.	Free
Premium	500 GB max storage per instance. 100 concurrent connections.	₹24,150.00 INR/INSTANCE

Each instance provides a single schema in a database. Includes automatic daily backup, SSL encryption, and data encryption on disk.

[TERMS](#)

Service name:

Selected Plan:

[CREATE](#)

g) After clicking on create, it will prompt to **RESTAGE** the application. Click on **RESTAGE**

The screenshot shows a dialog box titled 'Restage Application' with a warning icon. The message inside the dialog box states: 'Your 'sampleapp' app must be restaged to use the new 'registerdb' service. Restaging makes this service available for use. Do you want to restage it now?'. At the bottom of the dialog box, there are two buttons: 'RESTAGE' (green) and 'CANCEL' (grey). The background shows the IBM Bluemix console interface with the 'How do you want to start coding?' section visible.

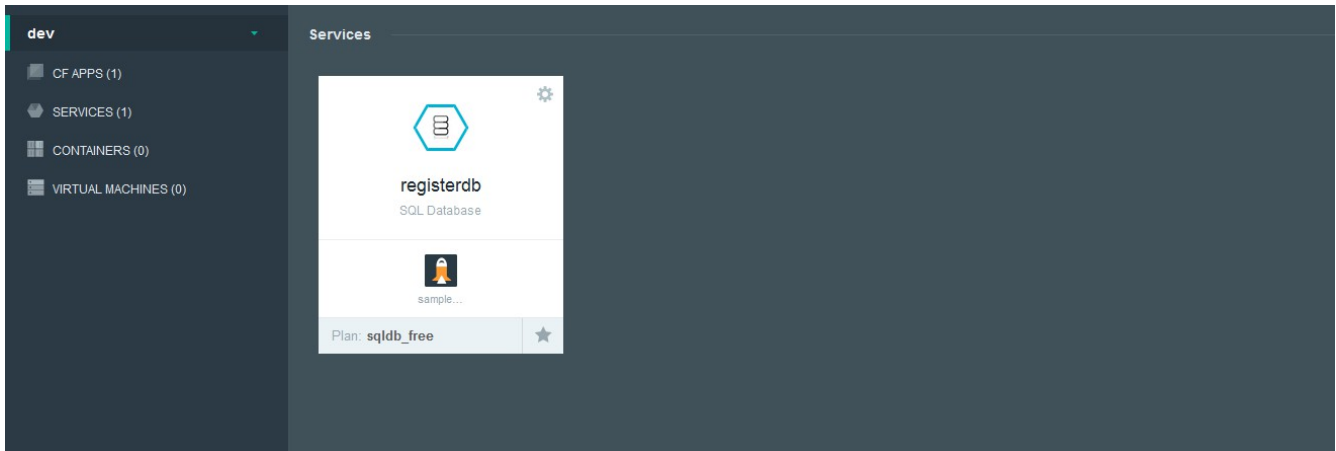
How do you want to start coding?

Restage Application

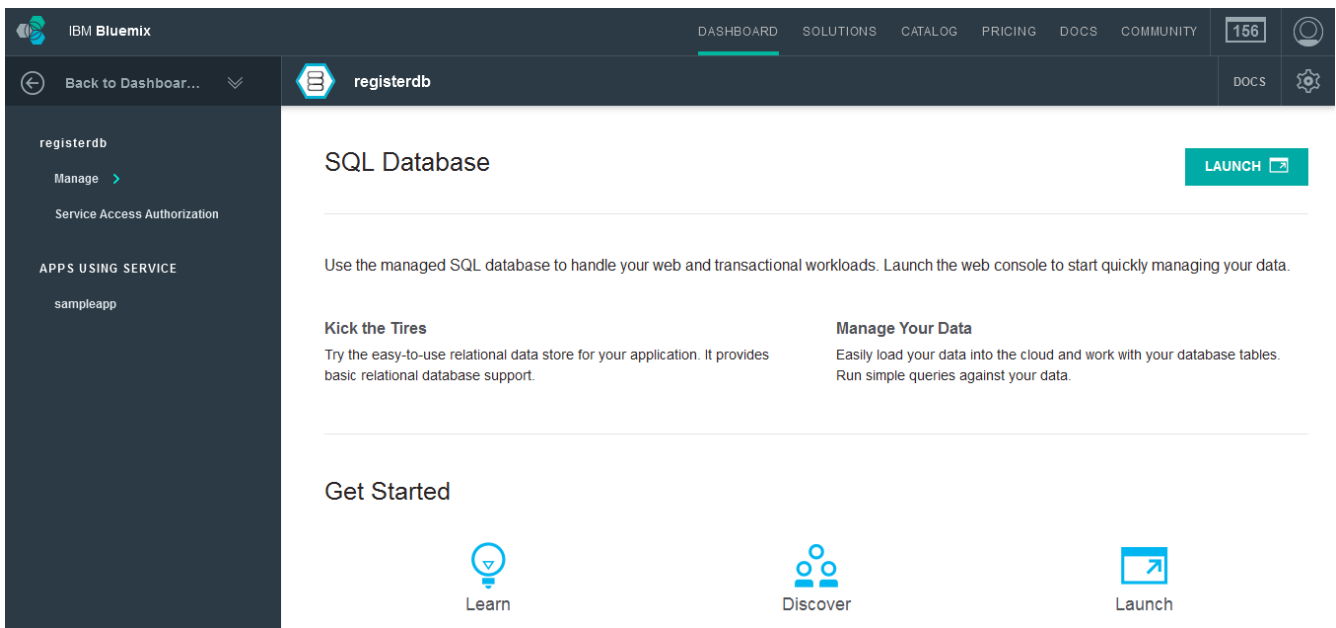
Your 'sampleapp' app must be restaged to use the new 'registerdb' service. Restaging makes this service available for use. Do you want to restage it now?

[RESTAGE](#) [CANCEL](#)

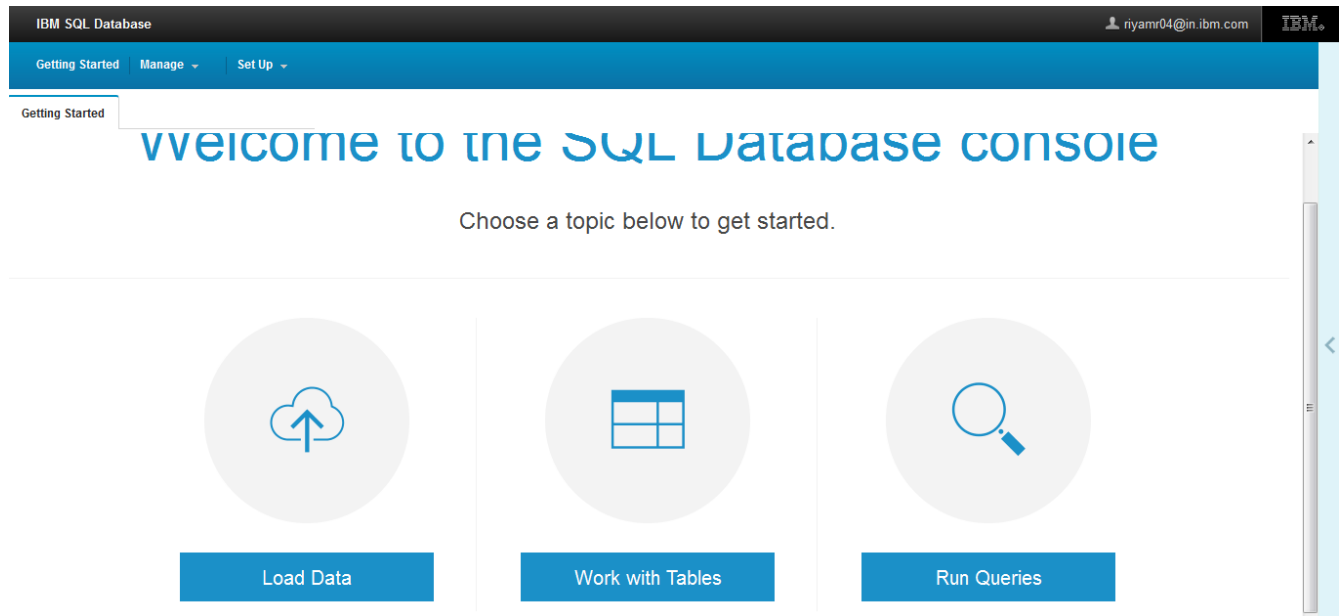
h) View the database created(registerdb) on the Bluemix dashboard and click on it.



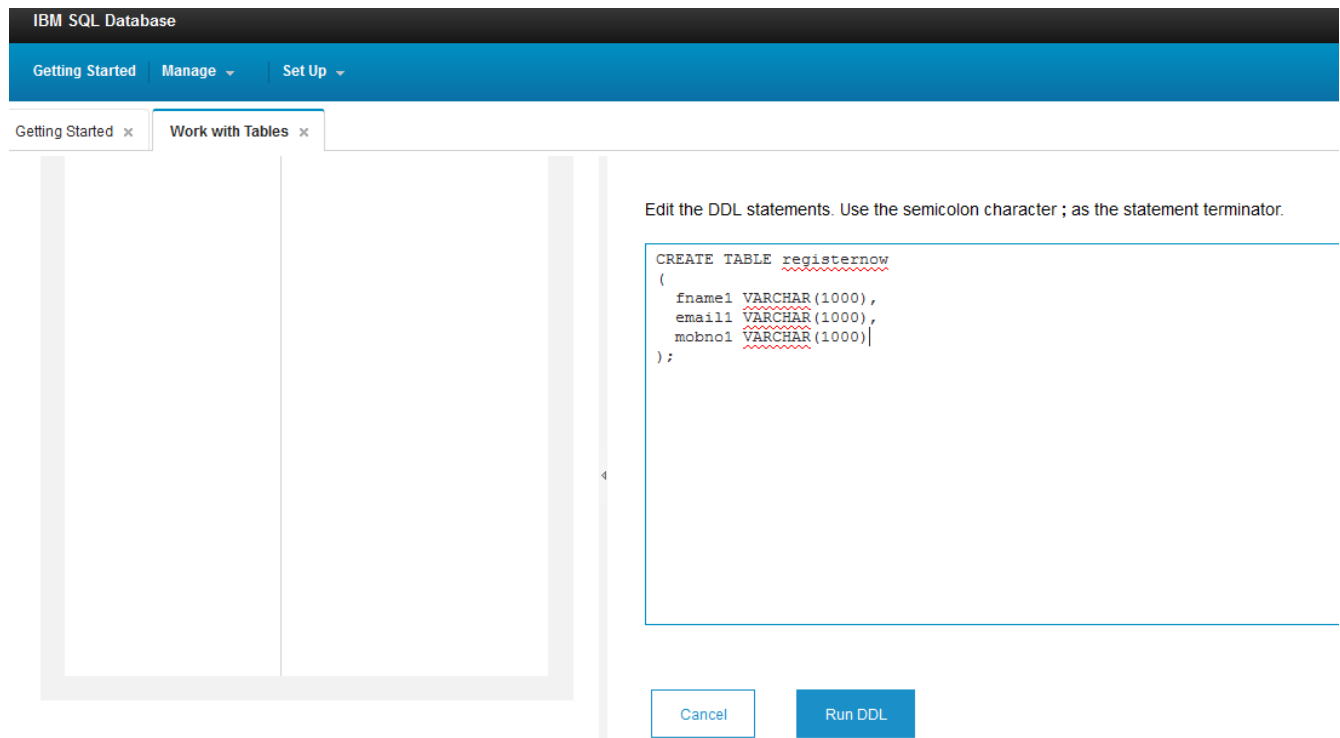
I) Click on **LAUNCH**



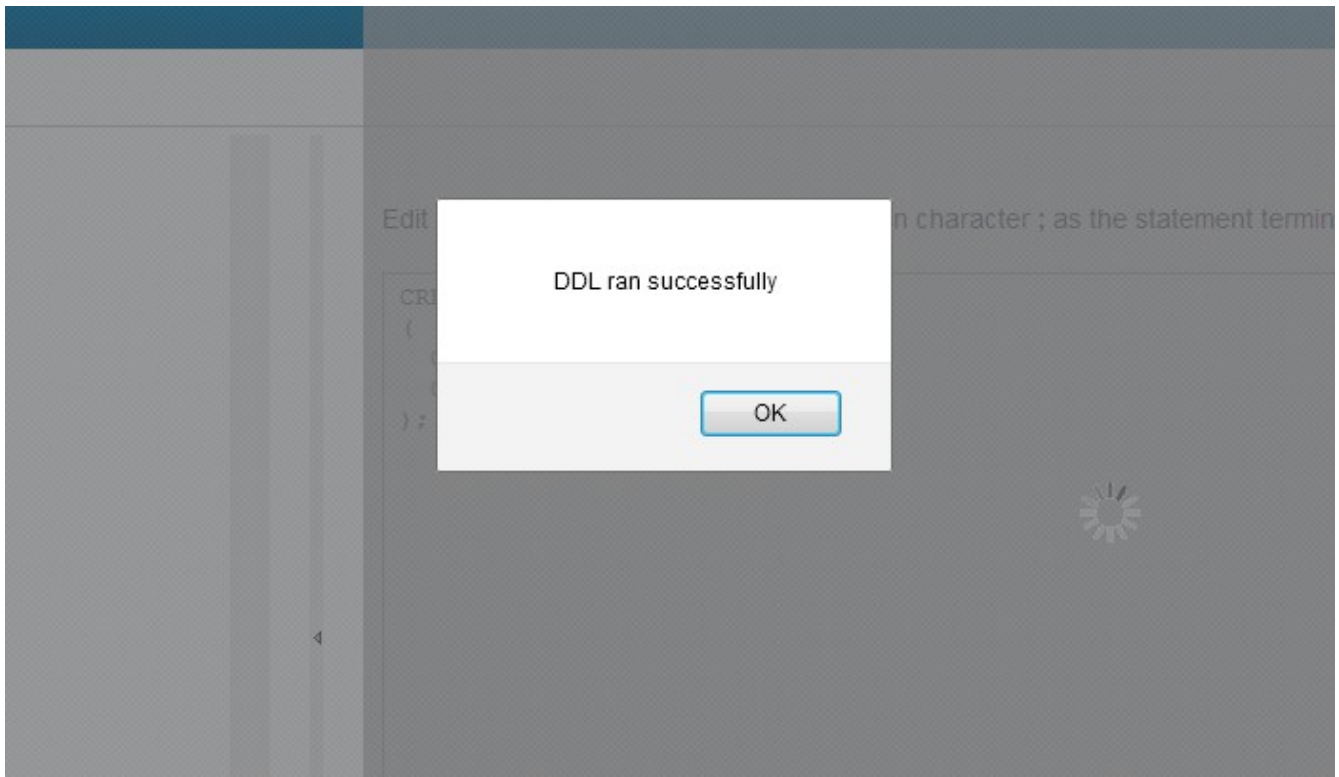
j) Click on *Work with Tables*



k) Edit the DDL statement as shown below and click on *RUN DDL*



1) Upon successful running, restage the application again



Go to bluemix application URL and test it.

You can view the test data in the table.

