Assignment 2
Cloud Technologies

Group L

Shivam, Kanmani, Kevin, Nitin
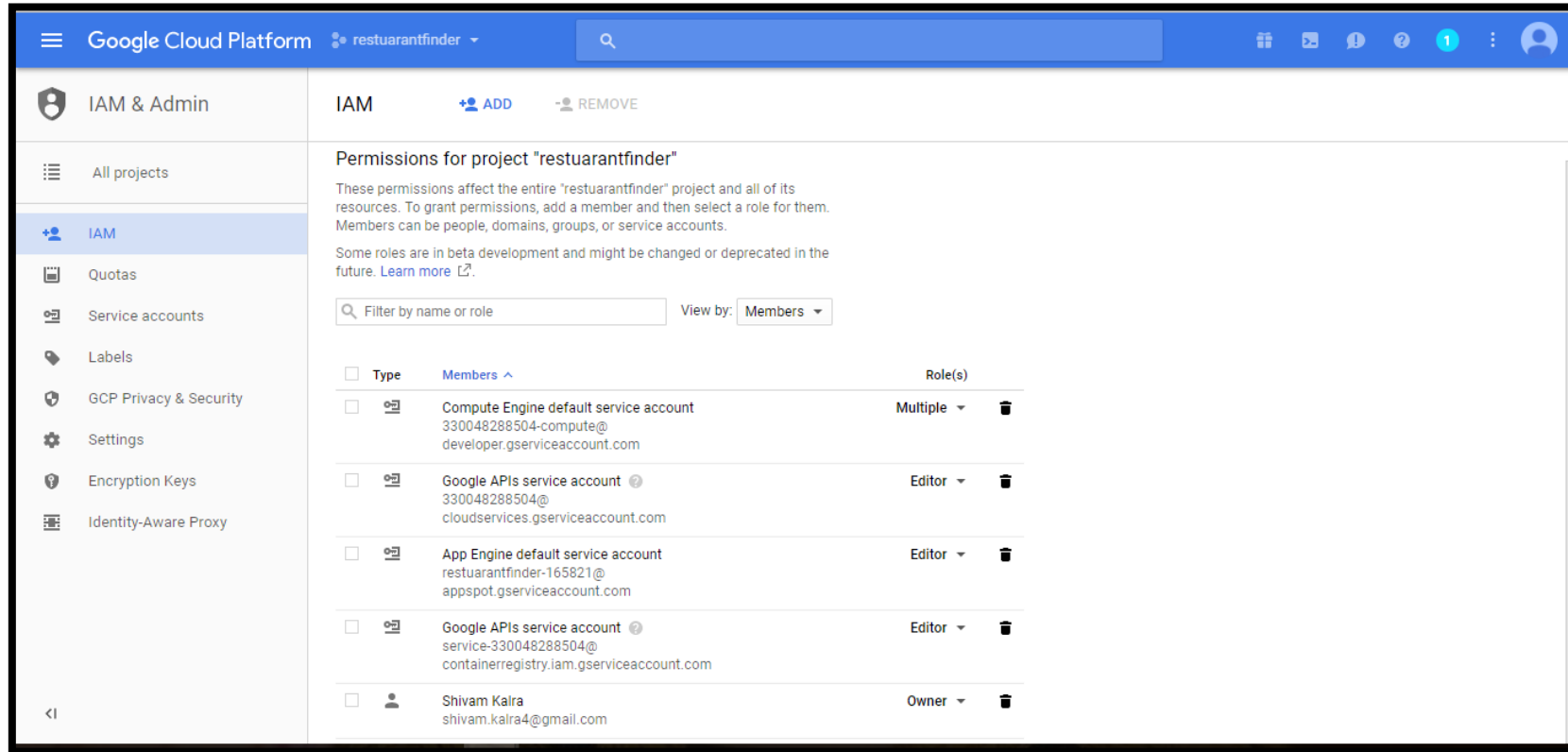
About

- Our assignment is based upon the Restaurants in USA.
  - We have taken the data from Kaggle.
  - Tools which we used are:
    - Ms Excel
    - My SQL
    - HTML, CSS
    - Java, JavaScript
    - Hadoop Virtual Machine
    - Google Cloud Platform
      - Google SQL
      - Google DataProc – Hive
      - Google Storage

Assigned Task

- Use Cloud Services
  - Google Cloud Platform
    - Compute Engine
    - Storage
    - SQL
    - DataProc

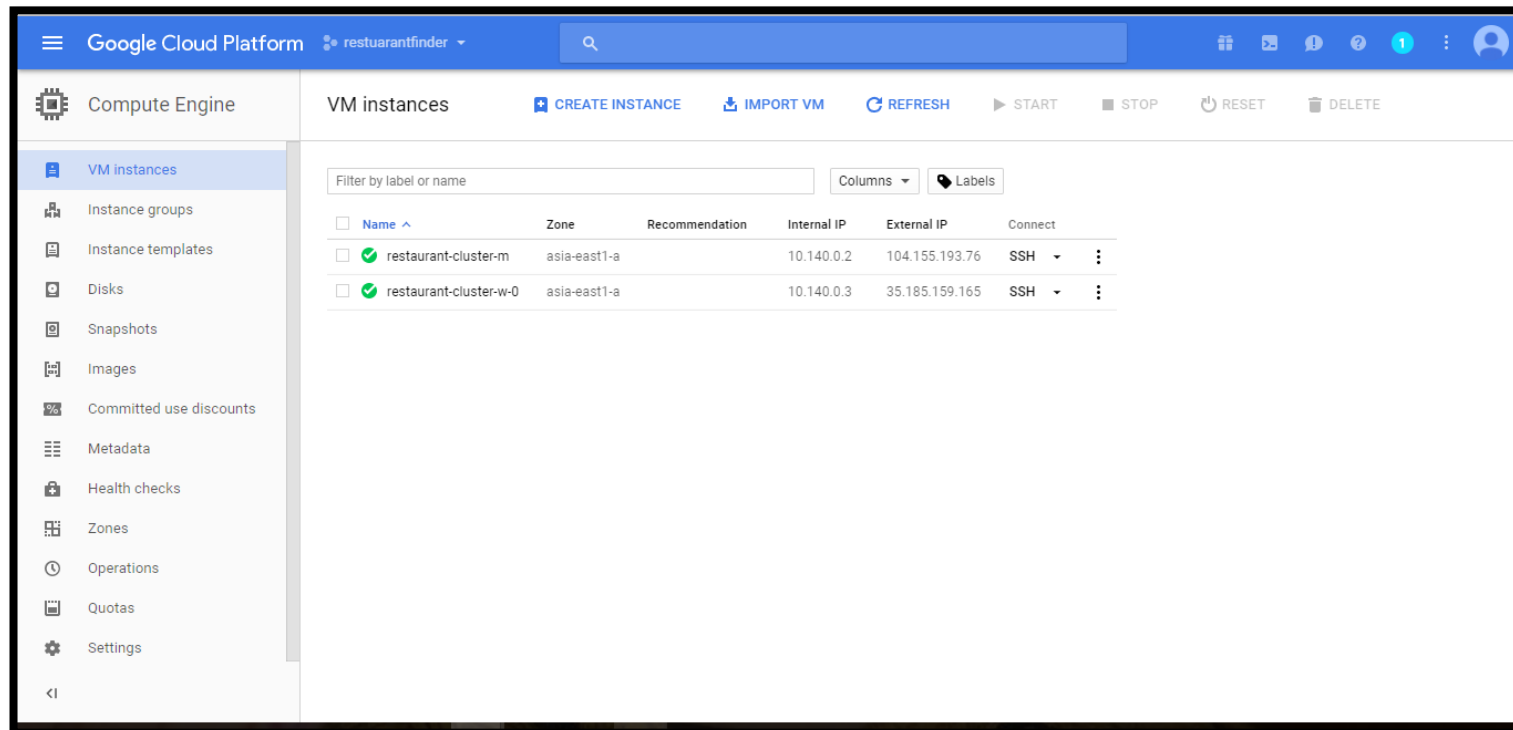- Help Kevin and Nitin in making UI

My Work in Detail

- Used Google Cloud Platform as Cloud service for the Assignment.
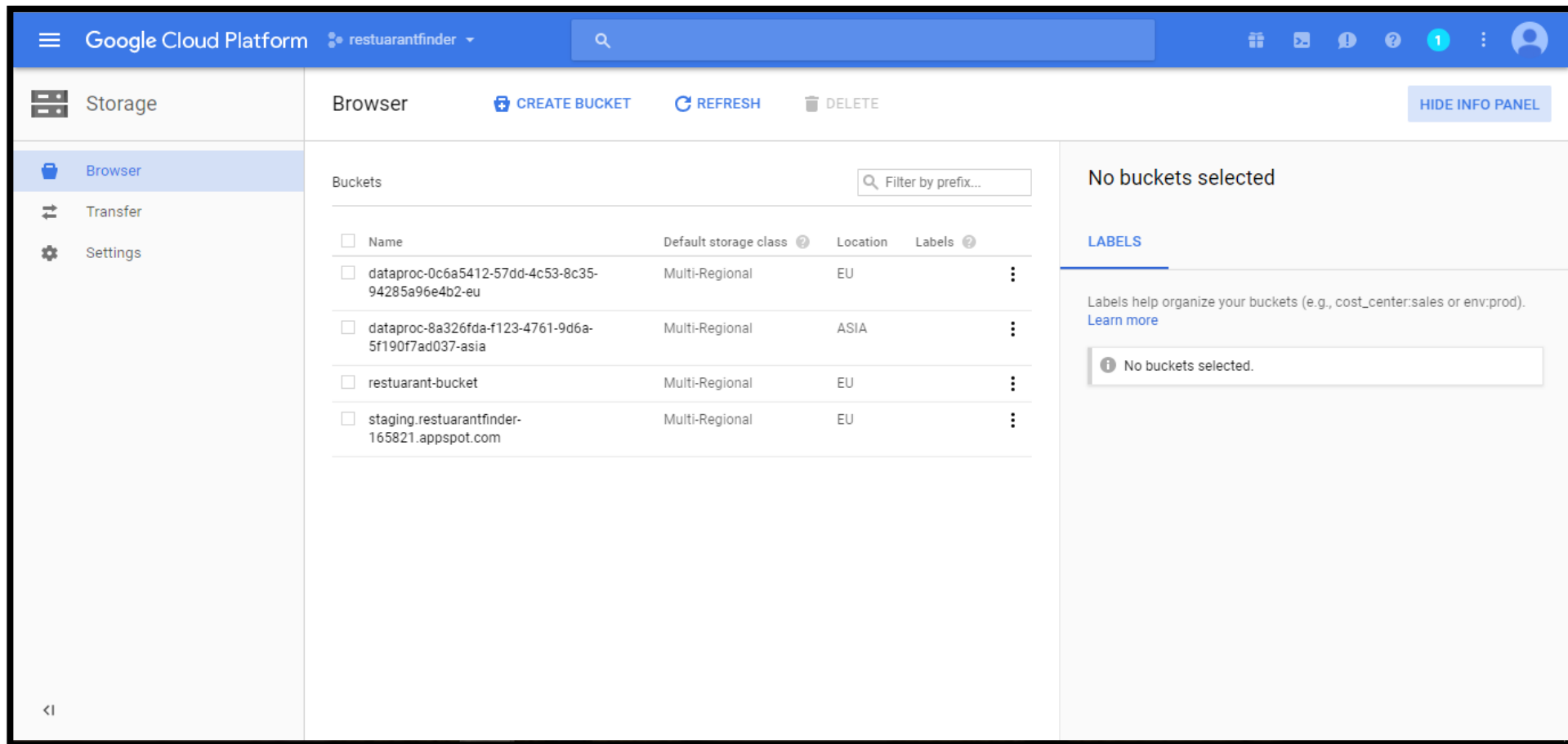
Cont..

- Services I used in Google Cloud

    Compute Engine – Make master node and worker node, to help in processing the tasks given to another cloud services.
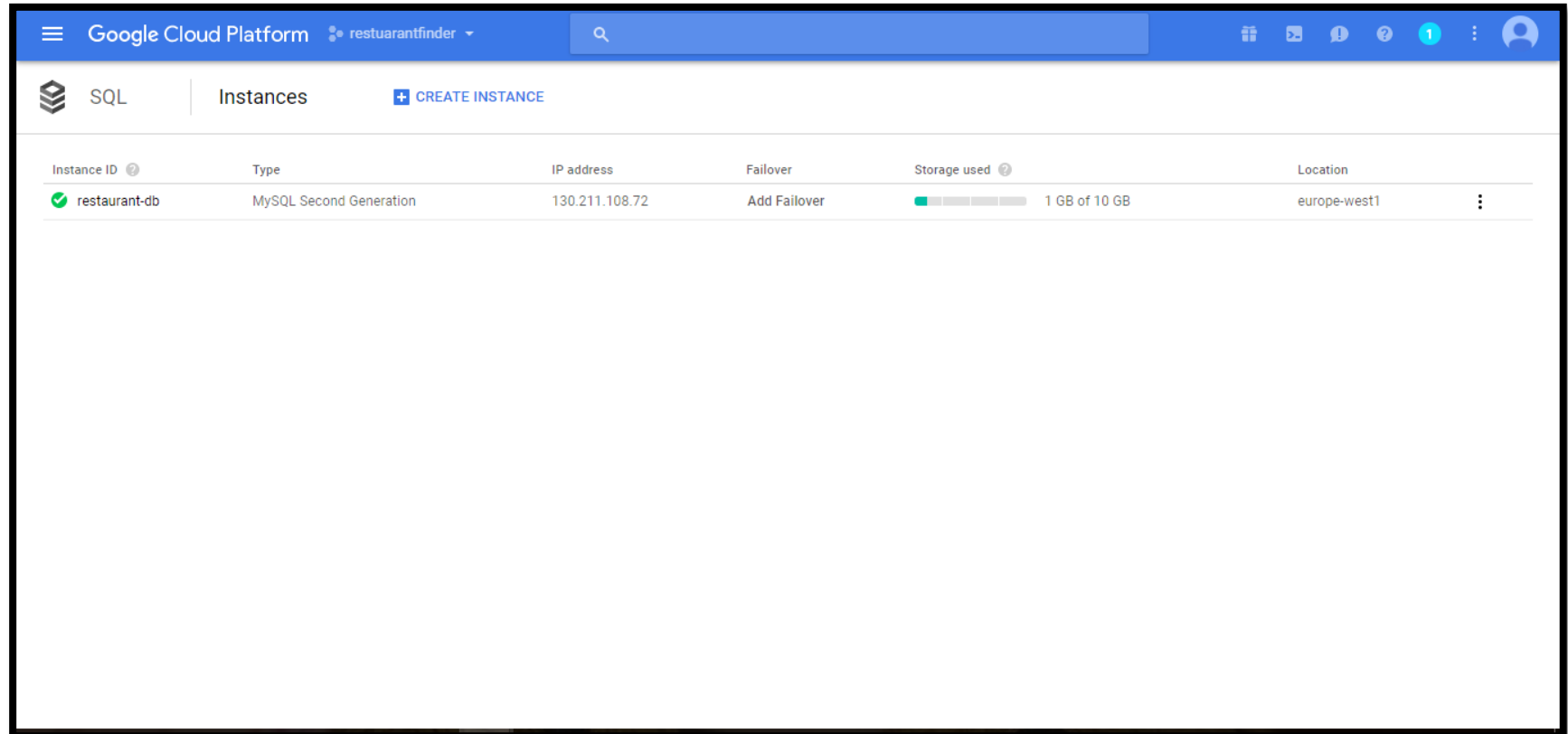
Cont..

- Use Cloud Storage to save the data and make the other cloud services easier to share the data and save the logs and output.

Cont..

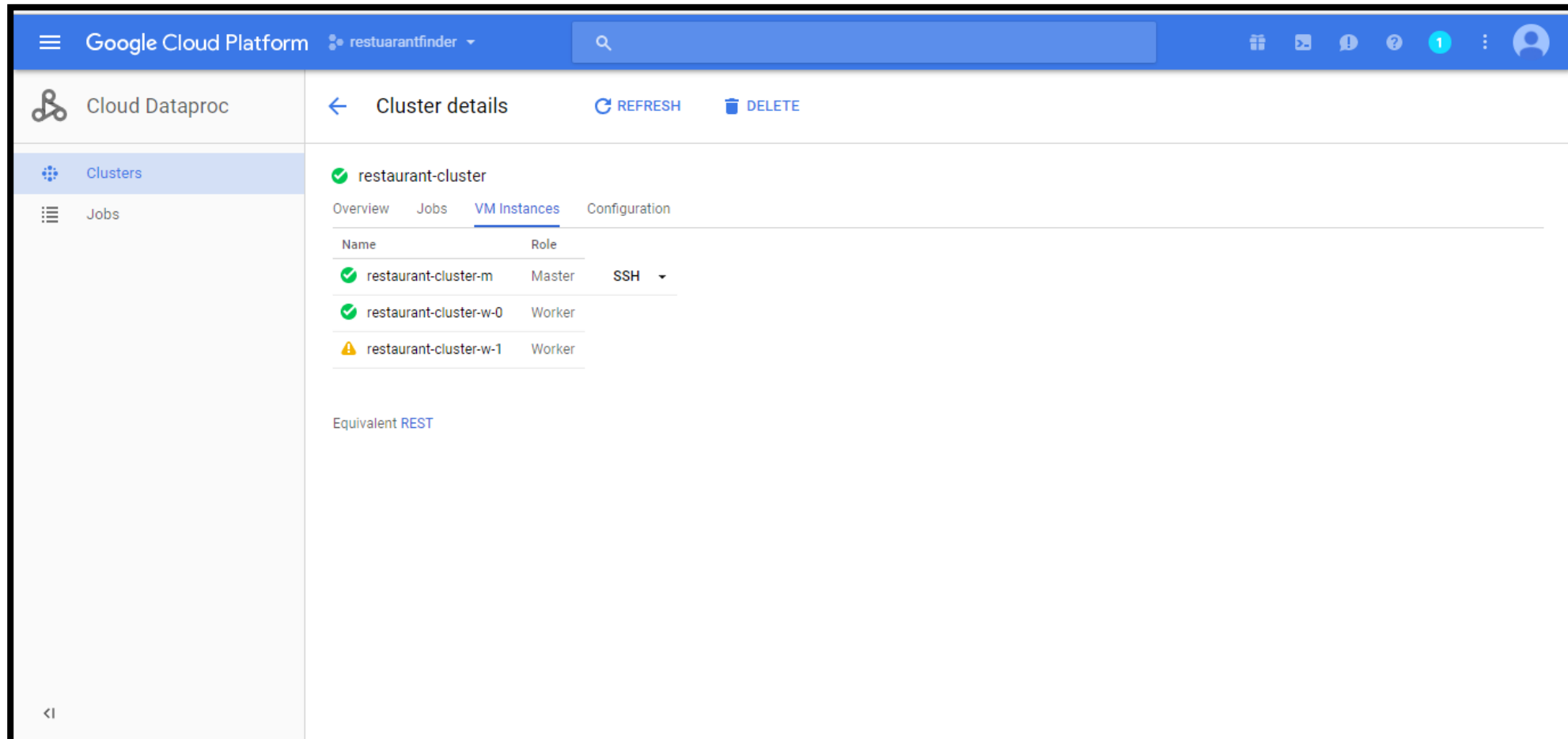- Use Cloud SQL , trying to connect the application with this for the output(Failed to do so).

Cont…

- Use Google DataProc to implement Hive(Hive/Beeline) on the data stored in the Cloud Storage.

Cont...
Use hive

Cont...

- Use Beeline

```
Time taken: 1.559 seconds, fetched: 9 row(s)
hive>
[6]+  Stopped                 hive
shivam_kalra4@restaurant-cluster-m:~$ beeline -u jdbc:hive2://localhost:10000/default -n shivam_kalra4@restaurant-cluster-m -d org.apache.hive.jdbc.HiveDriver
SLF4J: Class path contains multiple SLF4J bindings.
SLF4J: Found binding in [jar:file:/usr/lib/hive/lib/log4j-slf4j-impl-2.4.1.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: Found binding in [jar:file:/usr/lib/hadoop/lib/slf4j-log4j12-1.7.10.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF4J: See http://www.slf4j.org/codes.html#multiple_bindings for an explanation.
SLF4J: Actual binding is of type [org.apache.logging.slf4j.Log4jLoggerFactory]
Connecting to jdbc:hive2://localhost:10000/default
Connected to: Apache Hive (version 2.1.1)
Driver: Hive JDBC (version 2.1.1)
17/04/28 22:16:07 [main]: WARN jdbc.HiveConnection: Request to set autoCommit to false; Hive does not support autoCommit=false.
Transaction isolation: TRANSACTION_REPEATABLE_READ
Beeline version 2.1.1 by Apache Hive
0: jdbc:hive2://localhost:10000/default> select * from restaurant where id< 10;
+----------------+-------------------+------------------------------------------------+---------------------------------------------+--+
| restaurant.id  | restaurant.score  |                restaurant.name                 |              restaurant.address             |
+----------------+-------------------+------------------------------------------------+---------------------------------------------+--+
| 1              | 75                | pizza                                          | 666 Monroe St N E Washington Dc DC US       |
| 2              | 33                | Wine House                                     | 836 1/2 Main St Louisville CO US            |
| 3              | 63                | the Square - Middletown                        | 1045 Central Ave Middletown OH US           |
| 4              | 75                | Famous Dave's                                  | 3803 9th St S W Puyallup WA US              |
| 5              | 68                | Famous Dave's - Lombard                        | 206 Yorktown Shopping Ctr Lombard IL US     |
| 6              | 17                | Famous Dave's - Plymouth                       | 11308 Mn Highway 55 Plymouth MN US          |
| 7              | 59                | Famous Dave's - Upton Avenue                   | 4264 S Upton Ave Minneapolis MN US          |
| 8              | 30                | Famous Dave's Bar-b-que                        | 1443 Us 22 Mountainside NJ US               |
| 9              | 19                | Famous Dave's Forest Lake Mn - Hours Reviews & More | 43 19th St S W Forest Lake MN US       |
+----------------+-------------------+------------------------------------------------+---------------------------------------------+--+
9 rows selected (0.26 seconds)
0: jdbc:hive2://localhost:10000/default>
```

Thank You