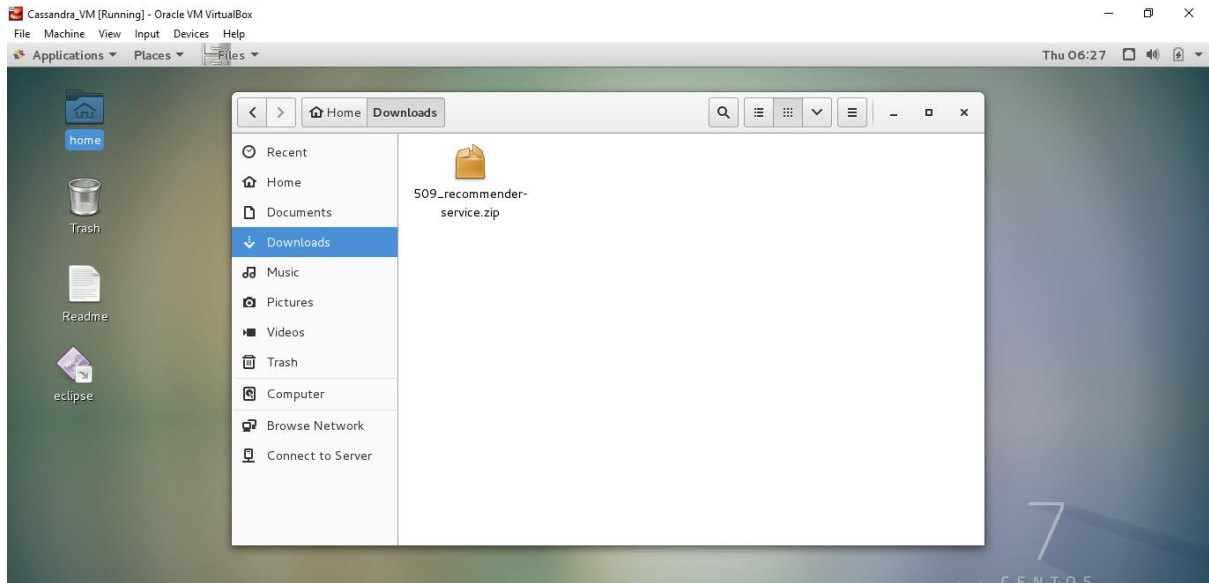
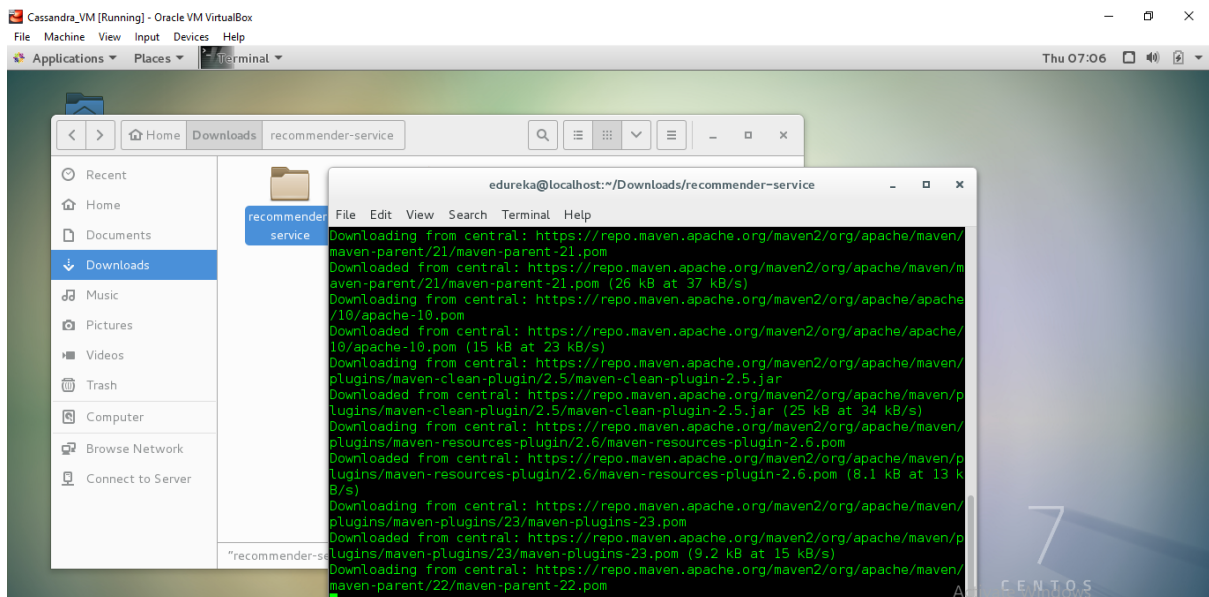


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Movie Recommendation Engine

1. Extract the codebase and go to the project root folder i.e. recommender-service folder.
2. Open a command prompt in this location.
3. Build codebase from command prompt.
4. **mvn clean install.**

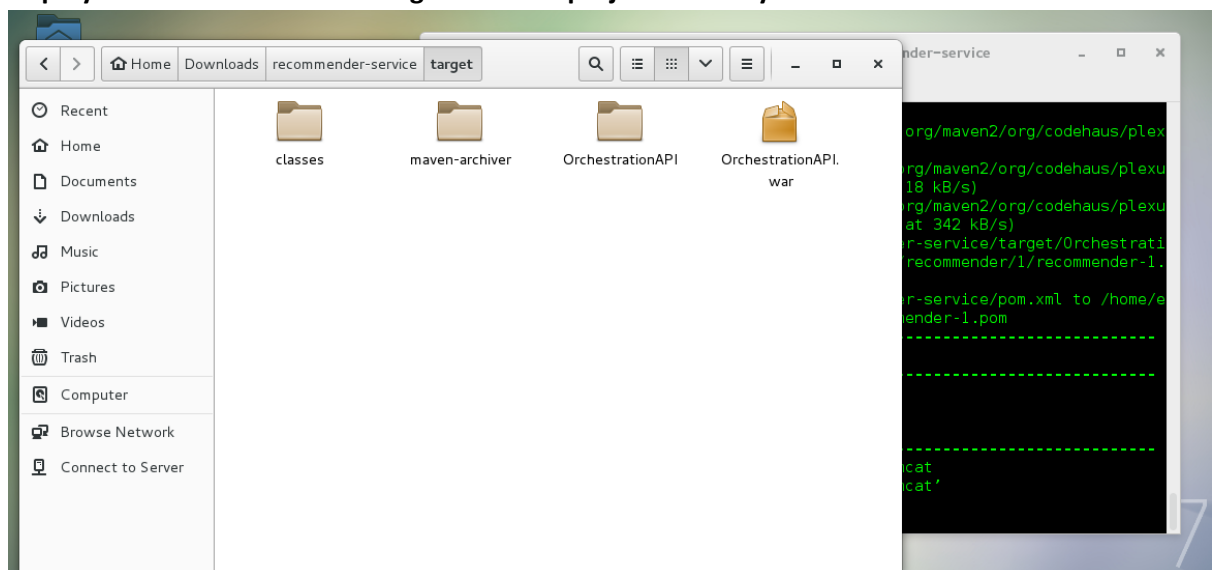


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```
edureka@localhost:~/Downloads/recommender-service
File Edit View Search Terminal Help
s/plexus-container-default/1.0-alpha-8/plexus-container-default-1.0-alpha-8.pom
(7.3 kB at 12 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-utils/3.0.5/plexus-utils-3.0.5.jar
Downloading from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-digest/1.0/plexus-digest-1.0.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-digest/1.0/plexus-digest-1.0.jar (12 kB at 18 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-utils/3.0.5/plexus-utils-3.0.5.jar (230 kB at 342 kB/s)
[INFO] Installing /home/edureka/Downloads/recommender-service/target/OrchestrationAPI.war to /home/edureka/.m2/repository/com/myorg/recommender/1/recommender-1.war
[INFO] Installing /home/edureka/Downloads/recommender-service/pom.xml to /home/edureka/.m2/repository/com/myorg/recommender/1/recommender-1.pom
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 05:02 min
[INFO] Finished at: 2022-09-08T07:11:01-04:00
[INFO] Final Memory: 28M/68M
[INFO] -----
[edureka@localhost recommender-service]$
```

5. Install Tomcat

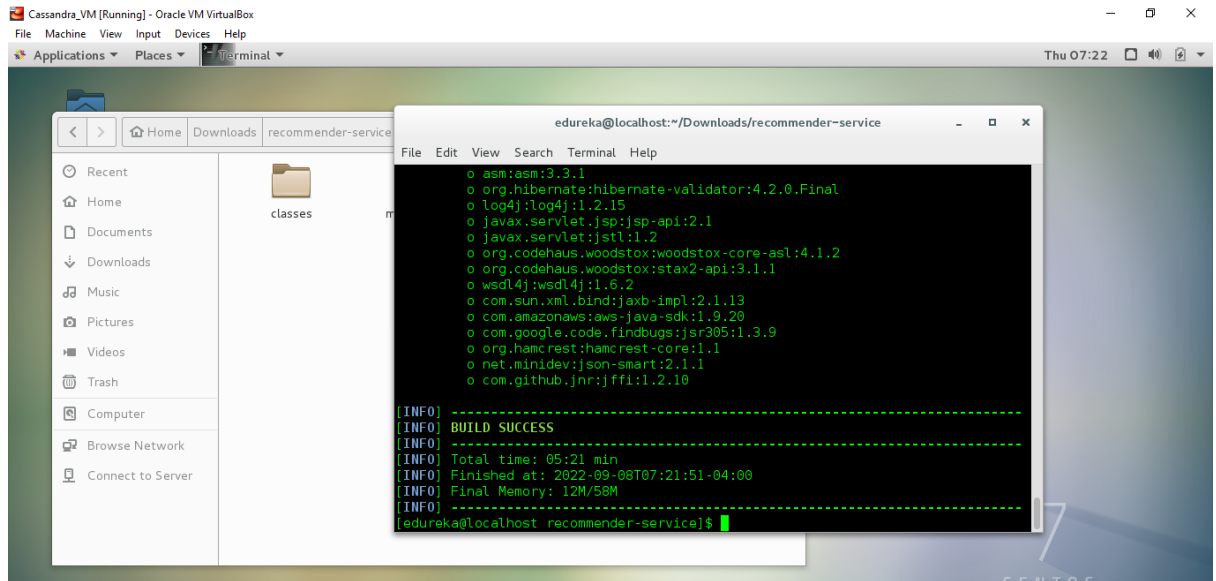
6. Deploy the war file created in target folder of project directory into Tomcat.



7.

8. Create an Eclipse project for the codebase by using following command in command prompt: **mvn eclipse:eclipse.**

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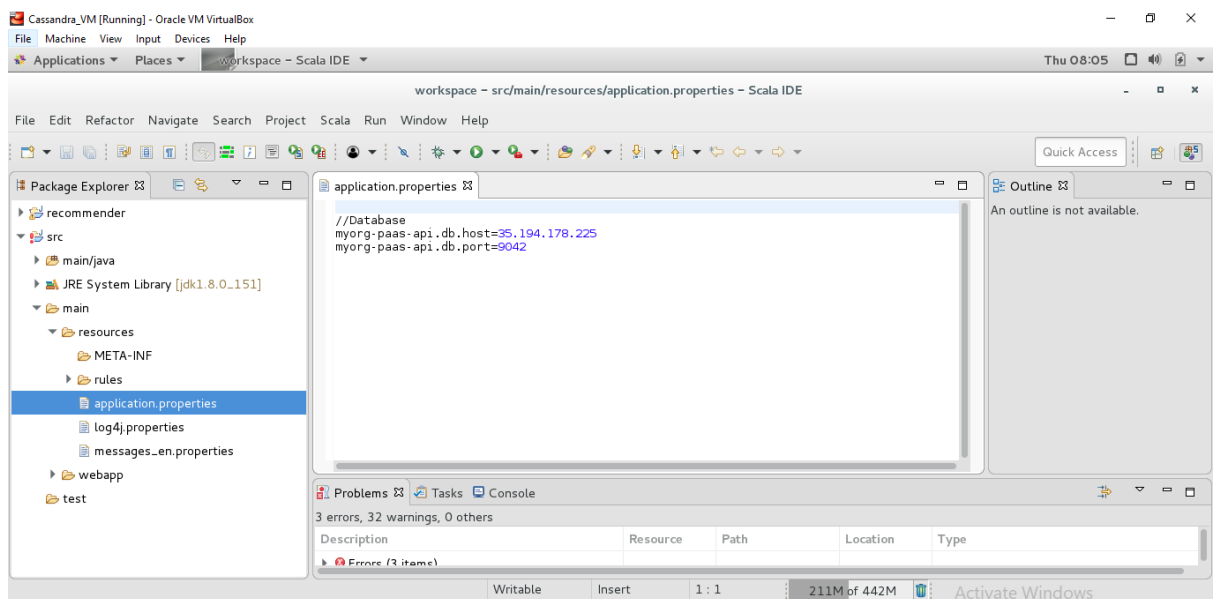


9.

10. In the codebase open application.properties and set DB host and port:

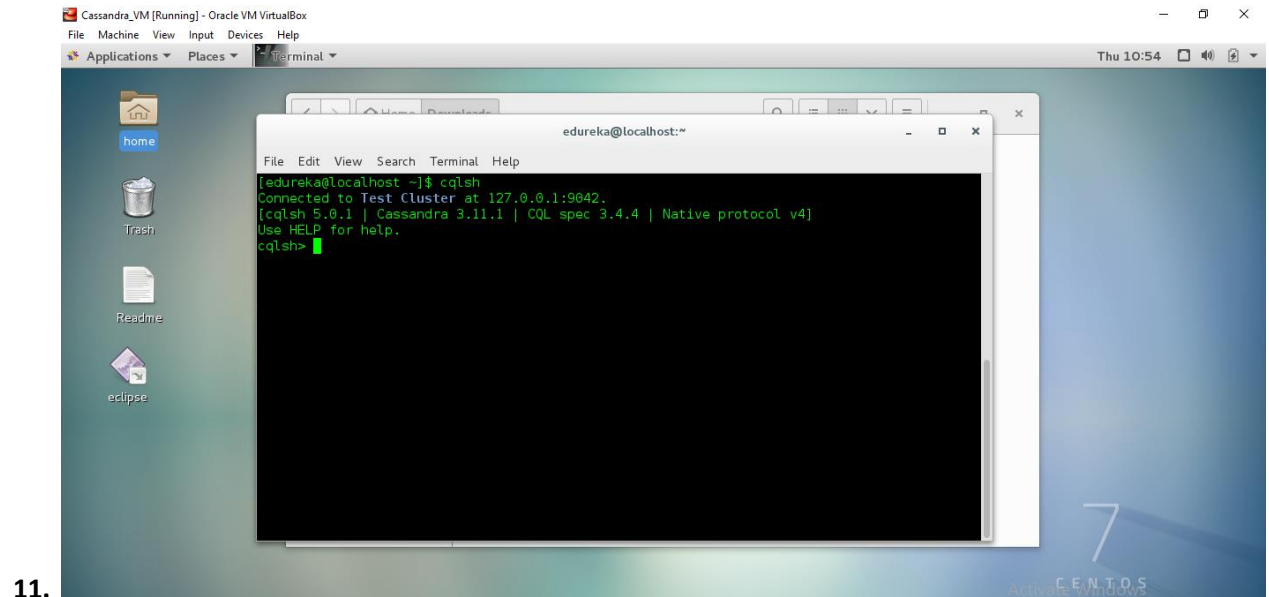
Example: myorg-paas-api.db.host=35.194.178.225

myorg-paas-api.db.port=9042

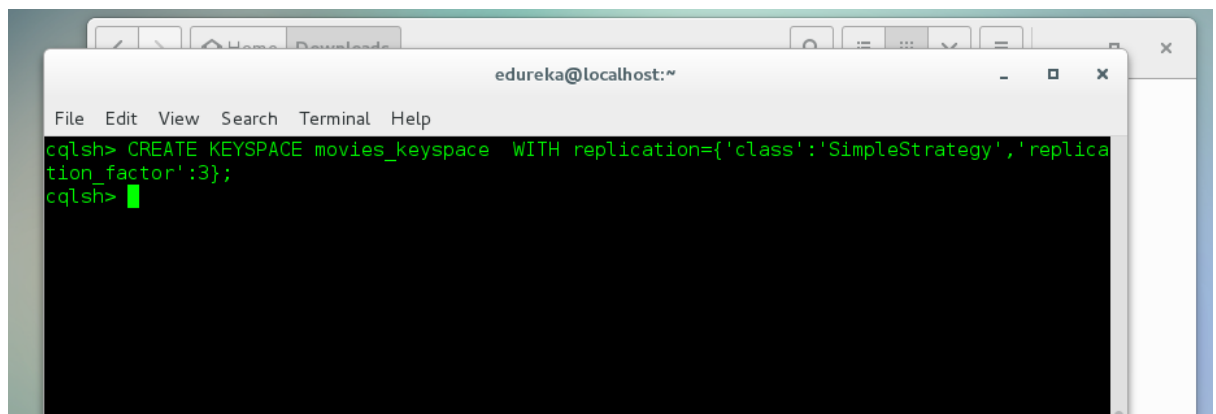


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Connected the Cassandra Test Cluster with cqlsh command

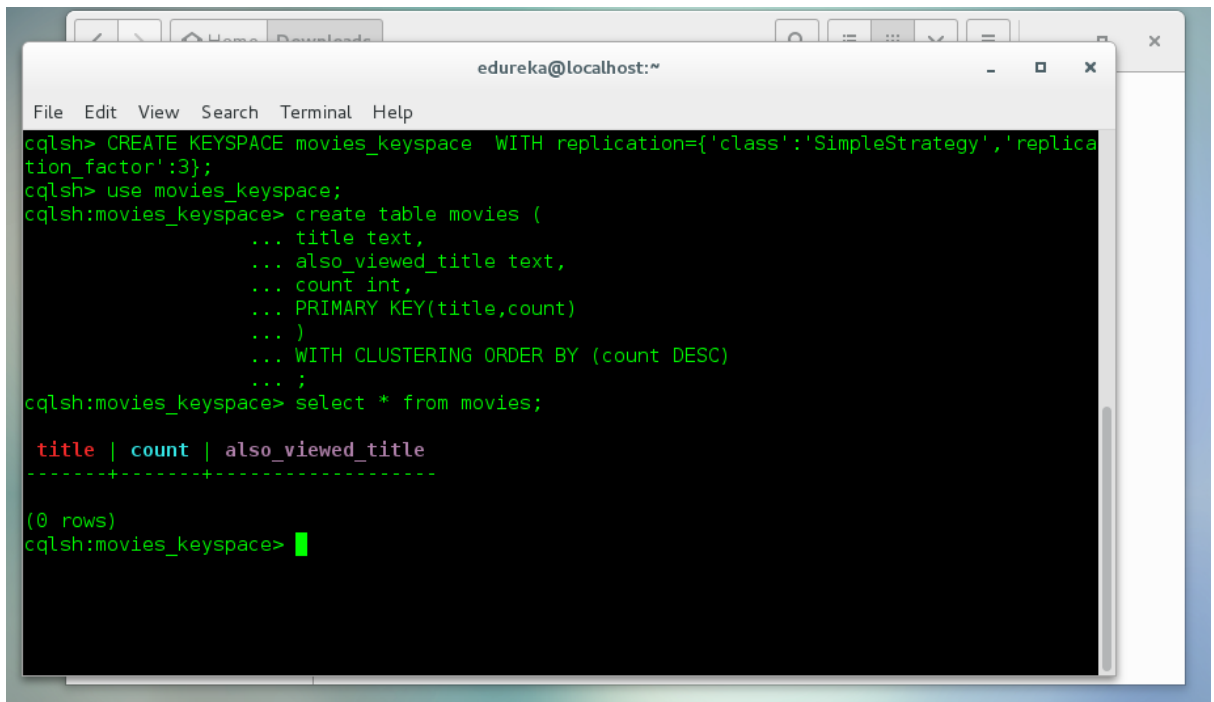


12. In Cassandra DB create a keyspace: movies_keyspace



13. Create a table movies with 3 columns using cluster by:

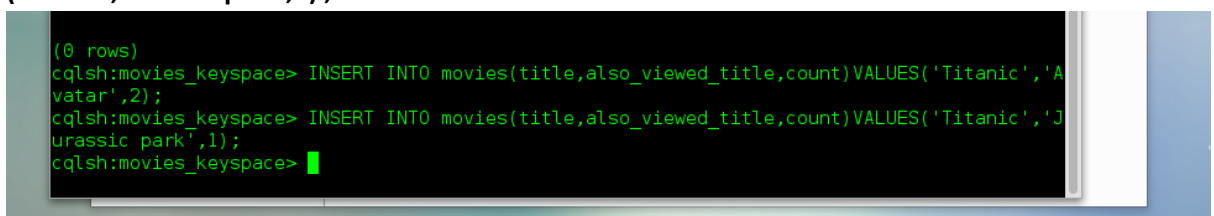
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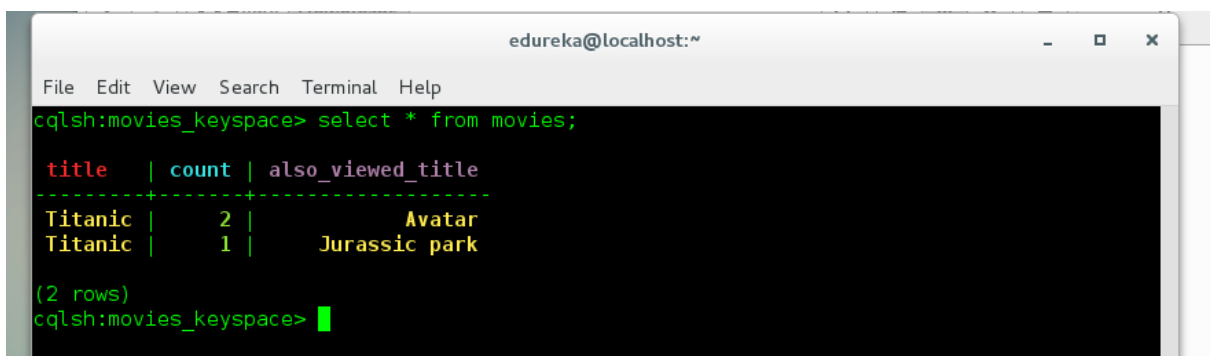
```
edureka@localhost:~  
File Edit View Search Terminal Help  
cqlsh> CREATE KEYSPACE movies_keyspace WITH replication={'class':'SimpleStrategy','replica  
tion_factor':3};  
cqlsh> use movies_keyspace;  
cqlsh:movies_keyspace> create table movies (  
    ... title text,  
    ... also_viewed_title text,  
    ... count int,  
    ... PRIMARY KEY(title,count)  
    ... )  
    ... WITH CLUSTERING ORDER BY (count DESC)  
    ... ;  
cqlsh:movies_keyspace> select * from movies;  
  
title | count | also_viewed_title  
-----+-----+-----  
  
(0 rows)  
cqlsh:movies_keyspace> █
```

14. Insert data as follows:

```
INSERT INTO movies (title,also_viewed_title,count) VALUES  
('Titanic','Avatar',2) ;  
INSERT INTO movies (title,also_viewed_title,count) VALUES  
('Titanic','Jurassic park',1) ;
```



```
(0 rows)  
cqlsh:movies_keyspace> INSERT INTO movies(title,also_viewed_title,count)VALUES('Titanic','A  
vatar',2);  
cqlsh:movies_keyspace> INSERT INTO movies(title,also_viewed_title,count)VALUES('Titanic','J  
urassic park',1);  
cqlsh:movies_keyspace> █
```



```
edureka@localhost:~  
File Edit View Search Terminal Help  
cqlsh:movies_keyspace> select * from movies;  
  
title | count | also_viewed_title  
-----+-----+-----  
Titanic | 2 | Avatar  
Titanic | 1 | Jurassic park  
  
(2 rows)  
cqlsh:movies_keyspace> █
```

15. Install Advanced REST Client as an extension of Chrome browser from following link:

<https://chrome.google.com/webstore/detail/advanced-rest-client/hgmloofddfnphfgcellkdfbfjeloo>

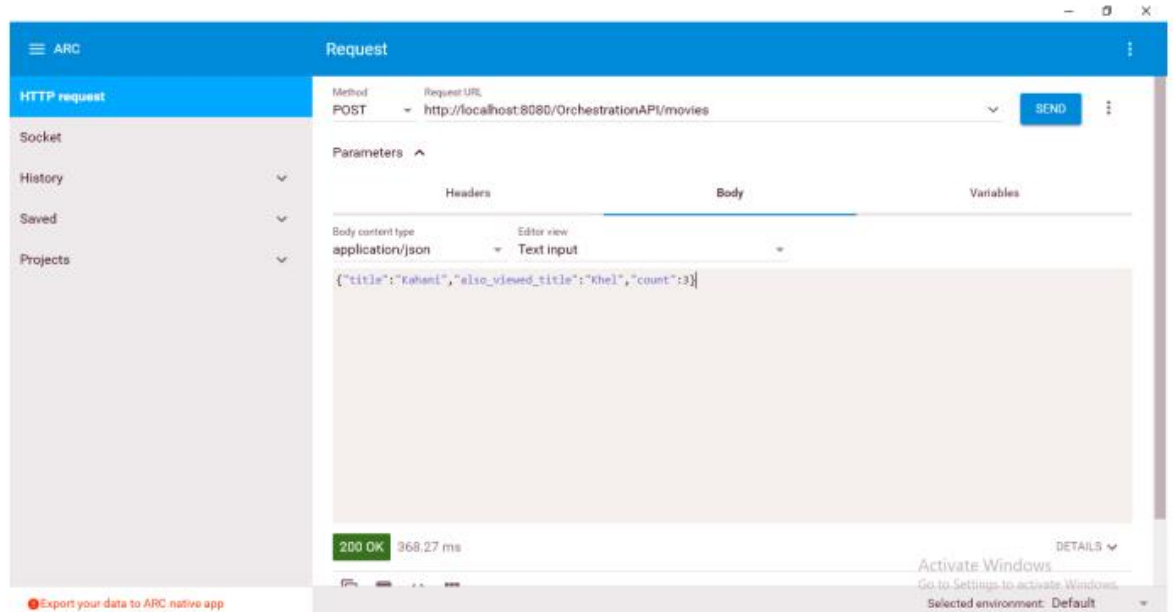
16. Use the following URL in REST client to get all data in Cassandra

<http://localhost:8080/OrchestrationAPI/movies>

This will list existing records in Cassandra in JSON format.

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17. Create some records using JSON POST call through REST client as shown below:



18. Get the recommendation using the following URL:

<http://localhost:8080/OrchestrationAPI/recommendations/Titanic>

19. The code uses Spring REST API framework. Controller folder in the codebase is the starting point of code flow where we create the endpoint URL. DAO folder creates the DB connectivity.
20. CassandraConnectionBuilderImpl.java creates the connection object through Spring bin while deploying to Tomcat App server. This ensures one connection object for the all DB calls.
21. TestCassandraConnection.java can be used to test Cassandra connection during development.