

# Assignment No. 11

## 1. Impala Installation:

```
git clone https://github.com/apache/impala.git
fatal: destination path 'impala' already exists and is not an empty
directory.
ubuntu@ubuntu-OptiPlex-3090:~$ git clone
https://github.com/apache/impala.git impala
fatal: destination path 'impala' already exists and is not an empty
directory.
cd impala
ubuntu@ubuntu-OptiPlex-3090:~/impala$ docker network create -d bridge
quickstart-network
Got permission denied while trying to connect to the Docker daemon socket at
unix:///var/run/docker.sock: Post
"http://%2Fvar%2Frun%2Fdocker.sock/v1.24/networks/create": dial unix
/var/run/docker.sock: connect: permission denied
ubuntu@ubuntu-OptiPlex-3090:~/impala$ export QUICKSTART_IP=$(docker network
inspect quickstart-network -f '{{(index .IPAM.Config 0).Gateway}}')
Got permission denied while trying to connect to the Docker daemon socket at
unix:///var/run/docker.sock: Get
"http://%2Fvar%2Frun%2Fdocker.sock/v1.24/networks/quickstart-network": dial
unix /var/run/docker.sock: connect: permission denied
ubuntu@ubuntu-OptiPlex-3090:~/impala$ export
QUICKSTART_LISTEN_ADDR=$QUICKSTART_IP
ubuntu@ubuntu-OptiPlex-3090:~/impala$ export
IMPALA_QUICKSTART_IMAGE_PREFIX="apache/impala:81d5377c2-" export
QUICKSTART_LISTEN_ADDR=0.0.0.0
ubuntu@ubuntu-OptiPlex-3090:~/impala$ export
IMPALA_QUICKSTART_IMAGE_PREFIX="apache/impala:81d5377c2-"
ubuntu@ubuntu-OptiPlex-3090:~/impala$ sudo chmod 666 /var/run/docker.sock
[sudo] password for ubuntu:
ubuntu@ubuntu-OptiPlex-3090:~/impala$ docker-compose -f
docker/quickstart.yml up -d
/snap/docker/2746/lib/python3.6/site-packages/paramiko/transport.py:32:
CryptographyDeprecationWarning: Python 3.6 is no longer supported by the
Python core team. Therefore, support for it is deprecated in cryptography.
The next release of cryptography (40.0) will be the last to support Python
3.6.
  from cryptography.hazmat.backends import default_backend
Recreating quickstart-hive-metastore ... done
Recreating docker_statestored_1 ... done
Recreating docker_catalogd_1 ... done
Recreating docker_impalad-1_1 ... done
```

## 2. Run Impala shell and create Database:

```
ubuntu@ubuntu-OptiPlex-3090:~/impala$ docker run --network=quickstart-
network -it \
> ${IMPALA_QUICKSTART_IMAGE_PREFIX}impala_quickstart_client impala-
shell
+ [[ 1 -eq 0 ]]
+ [[ impala-shell = \l\o\a\d\_t\p\c\d\s ]]
+ [[ impala-shell = \i\m\p\a\l\l\a\-\s\h\e\l\l ]]
+ shift
+ exec impala-shell --protocol=hs2 --history_file=/tmp/impalahistory -i
docker_impalad-1_1
Starting Impala Shell without Kerberos authentication
Error connecting: TTransportException, Could not connect todocker_impalad-
1_1:21050
*****
*****
Welcome to the Impala shell.
(Impala Shell v3.4.0-RELEASE (9f1c31c) built on Fri Apr 24 14:10:19 PDT
2020)
Want to know what version of Impala you're connected to? Run the VERSION
command to
find out!
*****
*****
[Not connected] > show databases;
Connection lost, reconnecting...
pened TCP connection to docker_impalad-1_1:21050
```

## 3. Show Databases:

name	comment
_impala_builtins	System database for Impala builtin functions
db1	
default	Default Hive database

Fetches 3 row(s) in 0.02s

#### 4. Create Database:

```
[Not connected] > create database db;
```

```
Query: create database db
```

```
+-----+  
| summary |
```

```
+-----+  
| Database has been created. |
```

```
+-----+
```

```
Fetches 1 row(s) in 0.15s
```

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#### 5. Use Database:

```
[Not connected] > use db;
```

```
Query: use db
```

```
[docker_impalad-1_1:21050] db> create table student(rollNo int, name  
string, marks int, primary key(rollNo))  
> ;
```

```
+-----+  
| summary |
```

```
+-----+  
| Table has been created. |
```

```
+-----+
```

```
Fetches 1 row(s) in 0.32s
```

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#### 6. Show and Describe Database:

```
[docker_impalad-1_1:21050] db> show tables;
```

```
Query: show tables
```

```
+-----+  
| name |
```

```
+-----+  
| student |
```

```
+-----+
```

```
Fetches 1 row(s) in 0.01s
```

```
[docker_impalad-1_1:21050] db> describe student;
```

```
Query: describe student
```

```
+-----+-----+-----+  
| name | type | comment |
```

```
+-----+-----+-----+  
| rollno | int | |
```

```
| name | string | |
```

```
| marks | int | |
```

```
+-----+-----+-----+
```

```
Fetches 3 row(s) in 0.36s
```

---

## 7. Insert Values into table:

```
docker_impalad-1_1:21050] db> insert into student values(1, "Ram", 76),
(2, "Rama", 88), (3, "Raghaw", 87), (4, "Ramesh", 98);
Query: insert into student values(1, "Ram", 76), (2, "Rama", 88), (3,
"Raghaw", 87), (4, "Ramesh", 98)
Query submitted at: 2023-05-17 04:16:29 (Coordinator:
http://172.18.0.5:25000)

Query progress can be monitored at:
http://172.18.0.5:25000/query_plan?query_id=fc43a742ef809675:16406b5b0000
0000
Modified 4 row(s) in 0.61s
```

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## 8. Show inserted values of student table:

```
[docker_impalad-1_1:21050] db> select * from student;
Query: select * from student
Query submitted at: 2023-05-17 04:16:39 (Coordinator:
http://172.18.0.5:25000)
Query progress can be monitored at:
http://172.18.0.5:25000/query_plan?query_id=dd4cb49b398c1253:19258a110000
0000
```

rollno	name	marks
1	Ram	76
2	Rama	88
3	Raghaw	87
4	Ramesh	98

```

+-----+-----+-----+
| rollno | name  | marks |
+-----+-----+-----+
| 1      | Ram   | 76    |
| 2      | Rama  | 88    |
| 3      | Raghaw | 87    |
| 4      | Ramesh | 98    |
+-----+-----+-----+
Fetched 4 row(s) in 0.21s
```