- 1. Open Terminal
 - 1.1. Copy the JAR file to Spark Jars using the following command.

docker cp

/home/labuser/Project/Installation_and_Execution/Docker_Hive_Spark_Dependencies/Docker_Hive_Spark_Dependencies/postgresql-42.3.1.jar hdp_spark-master:/spark/jars/

1.2. Copy hive-site.xml file from Hive container to Spark container

source path - hdp_hive-server:/opt/hive/conf/hive-site.xml target path - hdp_spark-master:/spark/conf/

docker cp hdp_hive-server:/opt/hive/conf/hive-site.xml /home/labuser/Downloads/ # docker cp /home/labuser/Downloads/hive-site.xml hdp spark-master:/spark/conf/

2. Copy .sql files to ra_mysql.

docker cp /home/labuser/Project/Code ra_mysql:/opt/

3. Login to MySQL (ra_mysql) docker container.

docker exec -i -t ra mysql bash

3. Open a mysql shell.

mysql -u root -p Enter the password- example

- 4. Execute the partial dataset creation file step by step while referring to the project videos.
- 5. Execute the views creation file step by step while referring to the project videos.
- 6. Open another terminal and login to SQOOP (ra_sqoop) docker container.

docker exec -i -t ra_sqoop bash

- 7. Execute SQOOP import commands provided in the **03_Sqoop-import.txt** file present at /home/labuser/Project/Installation_and_Execution/ location in the local file system of lab environment.
- 8. Exit the SQOOP container.

exit

9. Login to Hive Docker container (hdp_hive-server).

docker exec -i -t hdp_hive-server bash

- 10. Open a hive shell and execute the
- **04_Hive_tables_creation_cust_sales_stores.hql** step by step while referring to project videos..
 - # hive
- 11. Login to Spark docker container (hdp_spark-master) and open a spark shell.
 - # docker exec -i -t hdp_spark-master bash
 # ./spark/bin/spark-shell
- 12. Execute the **05_customer_demographic.scala** file in spark-shell which is stored in the Project/Code/ location on desktop.
- 13. Copy the parquet files from spark container(/spark/customer_demographics_xml_mined/) to local file system using docker cp command. Make sure you copy the files to an empty directory in the local file system.

docker cp /spark/customer_demographics_xml_mined/ /home/labuser/Downloads/

14. Copy the parquet files from the local files system to the Hive container. (/opt location)

docker cp /home/labuser/Downloads/ hdp hive-server:/opt

15. Login to Hive container and open a hive shell.

```
# docker exec -i -t hdp_hive-server bash # hive
```

16. Execute the **customer_demographic_creation.hql** step by step & please refer the project videos for in-depth understanding while execution.