**Installing Docker** : <https://docs.docker.com/desktop/setup/install/windows-install/>

**Docker-Curriculum** : <https://docker-curriculum.com/>

1. docker run hello-world
2. docker –version
3. docker pull macio232/hadoop-pseudo-distributed-mode
4. docker run -p 9870:9870 -p 8088:8088 -it --name=myHadoop macio232/hadoop-pseudo-distributed-mode
5. <http://localhost:9870>
6. <http://localhost:8088>
7. cd home/ [For start container first follow step (22) -🡪 then step (7)]
8. cd hadoop/
9. vi student.txt [For file save 🡪 Esc + Shift + : then wq + Enter] topu.txt
10. [ <http://localhost:9870> ] Now create folder in hdfs and upload student.txt file :
11. hdfs dfs -mkdir /rony [create ‘rony’ folder in hdfs]
12. hdfs dfs -put /home/hadoop/student.txt /rony/ [upload student.txt file in hdfs inside ‘rony’ folder]
13. hive [Now go inside to HIVE]
14. show databases; [Show the database]
15. create database ronytest; [database 🡪 ’ ronytest’ ]
16. use ronytest; [use ‘ronytest; database]
17. show tables; [show tables under selected database]
18. Create table student (Name string, Roll int)

Row format delimited [For creating new table into selected database]

Fields terminated by '\t';

1. select \*from student; [Table data checking]
2. load data inpath '/rony/student.txt' into table student; [When we run this command No: (12) where we create student.txt file ; this file came inside the student table and remove from rony folder in No: (11)]
3. docker stop myHadoop [after complete my work , i enter terminal ‘+’ icome then run this command ; then its back from linux fiture, ]
4. docker container start -i myHadoop [we can run again from our previous work]
5. then again work from No: (7)

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docker container start -i myHadoop

mkdir /test [Container এর ভিতরে /test নামের ফোল্ডার তৈরি করো]

ls -ld /test [ফোল্ডার তৈরি হয়েছে কিনা চেক করো]

ls /test [Container-এ ঢুকে ফাইলগুলো চেক করো]

### যদি ফাইল না থাকে, তাহলে Windows থেকে আবার ফাইলগুলো কপি করো: Windows CMD বা PowerShell-এ:

docker cp "C:\Users\Md.Rony Hossain\OneDrive\Desktop\DDBMS\teacherinfo\Course\_New.csv" myHadoop:/test/

docker cp "C:\Users\Md.Rony Hossain\OneDrive\Desktop\DDBMS\teacherinfo\Department\_New.csv" myHadoop:/test/

docker cp "C:\Users\Md.Rony Hossain\OneDrive\Desktop\DDBMS\teacherinfo\Teacher\_New.csv" myHadoop:/test/

hdfs dfs -mkdir -p /user/data [HDFS-এ ফোল্ডার তৈরি করো]

hdfs dfs -ls /user [যাতে দেখা যায় /user/data ফোল্ডার আছে কিনা।]

[ফাইলগুলো HDFS-এ আপলোড করো:]-------------------🡪>>>>>>>>>>>>>>

hdfs dfs -put /test/Course\_New.csv /user/data/

hdfs dfs -put /test/Department\_New.csv /user/data/

hdfs dfs -put /test/Teacher\_New.csv /user/data/

hdfs dfs -ls /user/data/ [ফাইলগুলো ঠিকঠাক এসেছে কিনা দেখো]

hive

CREATE DATABASE IF NOT EXISTS teacherinfo;

USE teacherinfo;

CREATE TABLE IF NOT EXISTS Course\_New (

course\_id STRING,

course\_name STRING,

department\_id STRING

)

ROW FORMAT DELIMITED

FIELDS TERMINATED BY ','

STORED AS TEXTFILE; ------------------------

CREATE TABLE IF NOT EXISTS Department\_New (

department\_id STRING,

department\_name STRING

)

ROW FORMAT DELIMITED

FIELDS TERMINATED BY ','

STORED AS TEXTFILE; --------------------------

CREATE TABLE IF NOT EXISTS Teacher\_New (

teacher\_id STRING,

teacher\_name STRING,

department\_id STRING

)

ROW FORMAT DELIMITED

FIELDS TERMINATED BY ','

STORED AS TEXTFILE; --------------------------------

show tables;

[ডেটা লোড করো]

LOAD DATA INPATH '/user/data/Course\_New.csv' INTO TABLE Course\_New;

LOAD DATA INPATH '/user/data/Department\_New.csv' INTO TABLE Department\_New;

LOAD DATA INPATH '/user/data/Teacher\_New.csv' INTO TABLE Teacher\_New;

SELECT \* FROM Course\_New LIMIT 50;

SELECT \* FROM Department\_New LIMIT 50;

SELECT \* FROM Teacher\_New LIMIT 50;