

ASSIGNMENT – IV

TITLE :

Implement and test a distributed storage system using HDFS and Apache HBase for large-scale data storage.

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```
Terminal ▾ Feb 24 3:39 PM
admin1@plcomp16: ~

(base) admin1@plcomp16:~$ start-dfs.sh
Starting namenodes on [localhost]
Starting datanodes
Starting secondary namenodes [plcomp16]
(base) admin1@plcomp16:~$ jps
38513 NameNode
38698 DataNode
38923 SecondaryNameNode
39118 Jps
(base) admin1@plcomp16:~$ hdfs dfs -mkdir /bank_data
(base) admin1@plcomp16:~$ hdfs dfs -put /home/admin1/Bank_Customer_Churn_Prediction.csv /bank_data
(base) admin1@plcomp16:~$ hdfs dfs -ls /bank_data
Found 1 items
-rw-r--r-- 1 admin1 supergroup 561600 2026-02-24 15:34 /bank_data/Bank_Customer_Churn_Prediction.csv
(base) admin1@plcomp16:~$ hdfs dfs -cat /bank_data/Bank_Customer_Churn_Prediction.csv | head
customer_id,credit_score,country,gender,age,tenure,balance,products_number,credit_card,active_member,estimated_salary,churn
15634602,619,France,Female,42,2,0,1,1,1,101348.88,1
15647311,608,Spain,Female,41,1,83807.86,1,0,1,112542.58,0
15619304,592,France,Female,42,8,159660.8,3,1,0,113931.57,1
15701354,699,France,Female,39,1,0,2,0,0,93826.63,0
15737888,850,Spain,Female,43,2,125510.82,1,1,1,79084.1,0
15574012,645,Spain,Male,44,8,113755.78,2,1,0,149756.71,1
15592531,822,France,Male,50,7,0,2,1,1,10062.8,0
15656148,376,Germany,Female,29,4,115046.74,4,1,0,119346.88,1
15792365,501,France,Male,44,4,142051.07,2,0,1,74940.5,0
cat: Unable to write to output stream.
(base) admin1@plcomp16:~$ hdfs dfs -rm /bank_data/Bank_Customer_Churn_Prediction.csv
Deleted /bank_data/Bank_Customer_Churn_Prediction.csv
(base) admin1@plcomp16:~$ hdfs dfs -ls /bank_data
(base) admin1@plcomp16:~$
```

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localhost:9870/explorer.html#/ Hadoop Overview Datanodes Datanode Volume Failures Snapshot Startup Progress Utilities

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/	Go!						
Show 25 entries	Search: <input type="text"/>						
<input type="checkbox"/> Permission	<input type="checkbox"/> Owner	<input type="checkbox"/> Group	<input type="checkbox"/> Size	<input type="checkbox"/> Last Modified	<input type="checkbox"/> Replication	<input type="checkbox"/> Block Size	
No data available in table							
Showing 0 to 0 of 0 entries						<input type="button" value="Previous"/>	<input type="button" value="Next"/>

Hadoop, 2021.

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localhost:9870/explorer.html#/bank_data

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Browse Directory

/bank_data									Go!	File	Folder	Text	CSV	JSON
Show 25 entries									Search:					
	Permission	Owner	Group	Size	Last Modified	Replication	Block Size	Name						
□	-rw-r--r--	admin1	supergroup	548.44 KB	Feb 24 15:34	1	128 MB	Bank_Customer_Churn_Prediction.csv						

Hadoop, 2021.

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Hadoop, 2021.