

ASSIGNMENT – IV

TITLE :

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

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ROLL NO : 23107121.

BATCH : B

```
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  
15619304,502,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:~$
```





Google Chrome Feb 24 3:33 PM

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localhost:9870/explorer.html#/

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<input type="checkbox"/>	Permission	Owner	Group	Size	Last Modified	Replication	Block Size	Name	
<input type="checkbox"/>	-rw-r--r--	admin1	supergroup	548.44 KB	Feb 24 15:34	1	128 MB	Bank_Customer_Churn_Prediction.csv	

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