

Lab-1 :-

① Creating Database & CRUD Operations :-

> use myDB;

> db;

myDB:

> db.createCollection("Student");

{ok: 1}

> db.Student.insert({_id: 1, StudName: "Rav", Grade: "X",
Hobbies: "Internet Surfing"});

{ acknowledged: true, insertedIds: [0: 1] }

> db.Student.update({_id: 3, StudName: "Argun", Grade: "VII"},
{ \$set: {Hobbies: "Skating"} },
{ upsert: true});

{ acknowledged: true }

> db.Student.find({StudName: "Argun"});

[{ _id: 3, Grade: "VII", StudName: "Argun", Hobbies: "Skating"}]

> db.Student.find({Grade: {\$eq: "VII"} }).pretty();

[{_id: 1, StudName: "Rav", Grade: "X", Hobbies: "Internet Surfing"}]

> db.Student.count();

2) > db.Student.find().sort({_id: -1}).pretty();

[{_id: 1, StudName: "Rav", Grade: "X", Hobbies: "Internet Surfing"},
{_id: 3, Grade: "VII", StudName: "Argun", Hobbies: "Skating"}]

]

2) Importing CSV file :-

```
> mongoimport --uri "mongodb+srv://maths@localhost:27017/mongoDB?retryWrites=true&w=majority" --collection SampleJSON --type CSV --header-file C:\Users\Adwin\Desktop\Bruce\sample
```

3 documents imported successfully

3) Exporting CSV file :-

```
> mongoexport mongoDB+srv:11111 --db bruce --collection=Student --out C:\Users\Adwin\Desktop\Bruce\Sample.txt
```

exported 4 records.

→ Same method :-

```
db. Students . save ( { studName : "Vansi" , Grade : "VI" } )
```

```
db. Students . update ( { _id : 4 } , { $set : { location : "Network" } } )
```

```
db. Student . find ( { _id : 1 } , { studName : 1 , Grade : 1 , _id : 0 } ) ;
```

```
db. Student . find ( { Grade : { $ne : 15 } } ) . pretty () ;
```

```
db. Student . find ( { StudName : 15 } ) . pretty () ;
```

```
db. Students . update ( { _id : 3 } , { $set : { location : null } } )
```

```
db. Students . count ()
```

```
db. Students . count ( { Grade : "VII" } )
```

```
db. Students . find ( { Grade : "VII" } ) . limit ( 3 ) . pretty () ;
```

db.Students.find().sort({StudName: 1}).pretty();

db.Students.find().skip(2).pretty()

✓ S.R. 202

Lab-2

①

myDB > db.Customers.insertMany([

{ cust-id: 1, Acc-Bal: 1500, Acc-Type: 'Z' },

{ cust-id: 2, Acc-Bal: 900, Acc-Type: 'X' },

{ cust-id: 3, Acc-Bal: 2000, Acc-Type: 'Z' },

{ cust-id: 4, Acc-Bal: 1100, Acc-Type: 'Y' },

{ cust-id: 5, Acc-Bal: 1800, Acc-Type: 'Z' }

3)

②

myDB > db.Customers.find({ Acc-Bal: { \$gt: 1200 }, Acc-Type: 'Z' })

({ \$group: { } })

③ myDB > db.Customers.aggregate([

{ \$match: { "Acc-Bal": { "\$gt": 1200 } } }, { \$group: { } }

3) group: {

→ id: "{\$cust-id",

Min-Balance: { \$min: "\$Acc-Bal" },

Max-Balance: { \$max: "\$Acc-Bal" }

3)

7)

26

myDB > db.createCollection("User")

myDB > db.createCollection("Orders")

db.users.insertMany([

])

myDB > db.Orders.insertMany([

])

{ "id": "123abc", "user_id": "123abc", "total": 1000, "date": "2021-08-01T00:00:00Z" }

→ ①

myDB > db.Products.find({category: "Electronics"})

② ③ myDB > db.Products.find({quantity: {\$gt: 0}})

③ myDB > db.Products.find().sort({price: 1})

④ myDB > db.Users.findById("789ghi"), {cart: 1, -id: 0}

⑤ myDB > db.orders.find({user_id: "123abc"})

⑥ myDB > db.orders.aggregate([

{\$match: {user_id: "123abc"},

{\$group: {_id: "\$user_id", total_sum: {\$sum: "\$total_price"}}}

Aggregate

- ① ~~myDB>db.products.aggregate([{\$group:{_id:"\$category", total_products:{\$sum:1}}}]~~
- ② ~~db.products.aggregate([{\$group:{_id:"\$category", total_price:{\$sum:"\$price"}}}])~~
- ③ ~~db.products.aggregate([{\$group:{_id:null, avg_price:{\$avg:"\$price"}}}])~~
- ④ ~~db.products.find({quantity:{\$lt:10}})~~
- ⑤ ~~db.products.find().sort({price:-1})~~
- ⑥ ~~db.orders.aggregate([{\$group:{_id:"\$user_id", total_spent:{\$sum:"totalPrice", "initial":1}}}]~~
- ⑦ ~~db.orders.aggregate([{\$group:{_id:"\$user_id", total_spent:{\$sum:"totalPrice", "initial":1}}, {"limit":1}},{\$_id:"\$user_id", "total_spent":1}])~~
- ⑧ ~~db.orders.aggregate([{\$group:{_id:null, avg_order_val:{\$avg:"totalPrice"}, "initial":1}}])~~

Lab-3

Working with Cassandra

① Create keyspace students - with 3 partitions & bin replication 3

Create keyspace Students With Replication = { 'class': 'SimpleStrategy', 'replication_factor': 1 };

② Describe keyspaces;

③ Select * from system.schema.keyspaces;

④ Use Students;

⑤ Create table Students - info (Roll-No int PRIMARY KEY, StudName text,
DateOfJoining timestamp, last_exam_percent double);

⑥ Describe Tables;

⑦ Describe Table <Table Name>;

⑧ BEGIN BATCH

Insert INTO students - Info (Roll-no, StudName, Date Of Joining,
last-exam-percent)

values (1, 'Asha', '2012-03-12', 79.9)) into cassandra - student - db;

Insert INTO Students - Info (Roll - Date Of Joining, last - exam - Percent)

Values (2, 'Kiran', '2012-03-12', 89.9)

⑨ Select * from Students - info :

roll - no	dateofjoining	last - exam - percent
1	2012-03-12	79.9
2	"	"
3	"	"
4	"	"

⑩ Insert value Roll - No = 5 values above

⑪ Select * from Students - Info where Roll - N

⑫ Select * from Students - info where Studn

⑬ Create Index ON Students - Info (S

⑭ Select * from Students - info where St

⑮ Select Roll - NO, StudName from Stud

⑯ Select Roll - No as "USN" from

⑰ Update Students - info SET StudN

Roll No = 2;

⑲ Update Students - info SET roll no

⑳ Delete Last - Exam - Percent FR

㉑ Delete from student - info where R

㉒ Alter Table Students - info ADD

㉓ Alter Table Students - info ADD

⑨ Select * from Students_info :

roll_no	date_of_joining	fees	last_exam_percent	studname
1	2012-03-11	100.0000	79.9	Asha
2	"	"	80.0	Dell
3	"	"	80.0	Sam
4	"	"	80.0	David

⑩ + where column = value always good practice std(1)

⑪ - Select * from Students_info where Roll_No IN (1,2,3);

⑫ Select * from students_info where Studname = 'Asha';

⑬ Create Index ON Students_Info (Studname);

⑭ Select * from Students_info where Studname = 'Asha';

⑮ Select Roll_No, StudName from Students_info Limit 2;

⑯ Select Roll_No as "USN" from Students_info ;

⑰ Update Students_info SET StudName = 'David Sheen' WHERE

Roll No = 2;

⑱ Update Students_info SET roll_no = 3 where roll_no = 2

⑲ Delete Last_Exam_Percent FROM Students_info where RollNo = 2;

⑳ Delete from student_info where RollNo = 2;

㉑ Alter Table Students_info ADD hobbies set <text>;

㉒ Alter Table Students_info ADD language list <text>;

Update Students - info

SET hobbies = hobbies + { 'chess', 'Table Tennis' };

where Roll No = 1;

(Ans)

Update library-book SET Counter Value = Counter Value + 1

where book-name = varchar, Stud-name varchar,

Primary Key (book-name, Stud-name);

Update library-book SET Counter Value = Counter Value + 1

where book-name = "BDA" AND Stud-name = "jeet";

Time to live :-

Create Tabl userlogin (Userid int PRIMARY KEY, password text);

Insert into userlogin (Userid, password) Values (1, 'infy')

using TTL 30;

Select TTL (password) FROM userlogin WHERE Userid=1;

Ans
1/A/25

Lab-3

Cassandra

① -- Cqlsh > Create keyspace Library

3:

Cqlsh > use library;

② Create a column family :-

Cqlsh: library > Create

Cqlsh: library >

Create table

Cqlsh: library > Alter

③ Insert the values :-

Cqlsh : library > begin

... insert into Li

values (112,

... insert "

... apply batch

Lab-1³

Cassandra

① --> cqlsh>

Create keyspace Library with replication = {

'class': 'SimpleStrategy', 'replication_factor': 1}

}

cqlsh> use library;

→ above command for creating table < present in slides

② Create a column family :-

{ 'Book' = user-defined name }

cqlsh: library > create table Library-Info (Stud-ID int,
Book-name text, Date-of-Issuance date,
Primary Key (Stud-ID, Book-ID)),

cqlsh: library >

create table Book-Counter (Stud-ID int, Stud-Name text,
Counter-value counter, primary key (Stud-Name,
Book-name)),

cqlsh: library > begin

③ Insert the values :-

cqlsh: library > begin batch

... insert into Library-Info (Stud-ID, Stud-Name,

values (112, 'aliu', 'bala', Book-name, Book-ID, D.O.F)

... insert "

... apply batch

Cqlsh : library > Select * from Library - Info:

→

stud-id	book-id	book-name	date-of-issue	stud-name
113	b102	ads	2025-04-07	bob
112	b101	bda	2025-04-07	alex

① Cqlsh : library > update Book-Counter set count-value =

(count-value + 1) where Stud-ID = 112

and Book-name = 'bda';

Cqlsh : library > update Book-Counter set count-value = count-value + 1

where Stud-ID = 112 and Book-name = 'bda';

Cqlsh : library > update Book-Counter set count-value = count-value + 1

where Stud-ID = 112 and Book-name = 'bda';

Exporting to CSV :

→ cqlsh -e "copy Library - Library - Info to 'library.info.csv' with header = True;"

Importing from CSV :

→ cqlsh -e "copy Library - Library - Info from 'newfile.csv' with header = True";

noo - 1

Hadoop

① Start-all.sh (start all the hadoop files)

② Creating a ~~b2~~ directory inside hadoop - mkdir
hdfs dfs - mkdir /bda-hadoop

③ Listing all content inside hadoop - ls
hadoop fs -ls /

drwxr-xr-x - hadoop supergroup 0 2025-01-15
121.23 /bda-hadoop

④ Copying files from desktop using put command

hdfs - dfs - put /home/hadoop/Desktop/bda-local.txt/
bda-hadoop/file.txt.

⑤ Copying files using copy from local cmd

hdfs dfs - copyFromLocal /home/hadoop/Desktop/bad-local/
bad.hadoop/file2.txt.

⑥ Get cmd (-cat)

hdfs - dfs - cat /bda-hadoop/file.txt.

⑦ get cmd

hdfs - dfs - get /bda-hadoop/file.txt /home/hadoop/Downloads/
downloaded.txt.

⑧ get merge cmd

hdfs dfs - get /bda-hadoop/file.txt /home/Desktop/lab00

hdfs dfs - get merge /bda/file.txt /bda-hadoop/file2.txt
home/hadoop/Desktop/bda-local.txt

⑨ hadoop fs - get fast /bda-local

file: /bda-hadoop
owner: hadoop
group: supergroup
user: root
gray: ex
other: r-x

⑩ Copy to local

hdfs - dfs - copyToLocal /bda-hadoop/file.txt /home/
hadoop/Desktop

⑪ move cmd

hadoop fs - mv /bda-hadoop/abc

hadoop fs - ls /abc

⑫ copy cmd

hadoop fs - cp /hello/H /hadoop/lab

Labs - 5

Word Count Program :-

- Create JAR file & input text file
- Create Three Java classes into project
Named WC Driver, WC Mapper, WC Reducer
- import java.io.IOException
import org.apache.hadoop.io.IntWritable
import org.apache.hadoop.io.Text
import org.apache.hadoop.mapreduce.Mapper
- "
Public class WCMapper extends Mapper
Mapper < LongWritable, Text, Text
public void map (Long Wri
Collector<Text, IntWritable> outkey, Repla
String key = value.toString
for (String word : key.
if (word.length ()
Output.collect (

- import java.io.IOException
import java.io.IOException
import org.apache.hadoop.io.IntWritable
import org.apache.hadoop.io.Text

Lab 5

hadoop wordcount

hadoop wordcount /file1.txt

hadoop wordcount /file2.txt

hadoop wordcount /file3.txt

hadoop wordcount /file4.txt

hadoop wordcount /file5.txt

hadoop wordcount /file6.txt

hadoop wordcount /file7.txt

hadoop wordcount /file8.txt

hadoop wordcount /file9.txt

hadoop wordcount /file10.txt

hadoop wordcount /file11.txt

hadoop wordcount /file12.txt

hadoop wordcount /file13.txt

hadoop wordcount /file14.txt

hadoop wordcount /file15.txt

hadoop wordcount /file16.txt

hadoop wordcount /file17.txt

hadoop wordcount /file18.txt

hadoop wordcount /file19.txt

hadoop wordcount /file20.txt

hadoop wordcount /file21.txt

hadoop wordcount /file22.txt

hadoop wordcount /file23.txt

hadoop wordcount /file24.txt

hadoop wordcount /file25.txt

hadoop wordcount /file26.txt

hadoop wordcount /file27.txt

hadoop wordcount /file28.txt

hadoop wordcount /file29.txt

hadoop wordcount /file30.txt

hadoop wordcount /file31.txt

hadoop wordcount /file32.txt

hadoop wordcount /file33.txt

hadoop wordcount /file34.txt

hadoop wordcount /file35.txt

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hadoop wordcount /file37.txt

hadoop wordcount /file38.txt

hadoop wordcount /file39.txt

hadoop wordcount /file40.txt

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hadoop wordcount /file43.txt

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hadoop wordcount /file45.txt

hadoop wordcount /file46.txt

hadoop wordcount /file47.txt

hadoop wordcount /file48.txt

hadoop wordcount /file49.txt

hadoop wordcount /file50.txt

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hadoop wordcount /file80.txt

hadoop wordcount /file81.txt

hadoop wordcount /file82.txt

hadoop wordcount /file83.txt

hadoop wordcount /file84.txt

hadoop wordcount /file85.txt

hadoop wordcount /file86.txt

hadoop wordcount /file87.txt

hadoop wordcount /file88.txt

hadoop wordcount /file89.txt

hadoop wordcount /file90.txt

hadoop wordcount /file91.txt

hadoop wordcount /file92.txt

hadoop wordcount /file93.txt

hadoop wordcount /file94.txt

hadoop wordcount /file95.txt

hadoop wordcount /file96.txt

hadoop wordcount /file97.txt

hadoop wordcount /file98.txt

hadoop wordcount /file99.txt

hadoop wordcount /file100.txt

Word Count Program

→ Create JAR file & input text file

→ Create Three Java classes into project

Named WC Driver, WC Mapper, WC Reducer

Import java.io.IOException

import org.apache.hadoop.io.IntWritable

import org.apache.hadoop.io.LongWritable

import org.apache.hadoop.io.Text

Public class WCMapper extends MapReduceBase implements

Mapper<Long Writable, Text, Text, Int Writable>

public void map(Long Writable key, Text value, Output

Collector<Text, Int Writable> collector) throws IOException {

String line = value.toString();

for (String word : line.split(" ")) {

if (word.length() > 0) {

Output.collect(new Text(word), new Int Writable(1));

}

}

MapReduceBase()

→ Import java.io.IOException

import org.apache.hadoop.io.IntWritable

import org.apache.hadoop.io.LongWritable

import org.apache.hadoop.io.Text

Public class WCReducer extends MapReduceBase implements

Reducer<Text, Int Writable, Text, Int Writable> {

IntWritable result = new IntWritable(0);

for (Text word : key.getValues()) {

result.add(word.get());

Output.collect(key, result);

}

MapReduceBase()

→ Import java.io.IOException

import org.apache.hadoop.io.IntWritable

import org.apache.hadoop.io.Text

Public class WCDriver extends MapReduceBase {

Configuration conf = getConf();

FileInputFormat.addInputPath(conf, new Path("input"));

FileOutputFormat.setOutputPath(conf, new Path("output"));

Job job = new Job(conf, "WordCount");

job.setMapperClass(WCMapper.class);

job.setReducerClass(WCReducer.class);

job.setMapOutputKeyClass(Text.class);

job.setMapOutputValueClass(IntWritable.class);

job.setOutputKeyClass(Text.class);

job.setOutputValueClass(IntWritable.class);

job.setInputFormatClass(TextInputFormat.class);

job.setOutputFormatClass(TextOutputFormat.class);

job.waitForCompletion(true);

MapReduceBase()

→ Main class

public static void main(String[] args) throws Exception {

WCDriver driver = new WCDriver();

driver.run(args);

MapReduceBase()

→ Main class

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MapReduceBase()

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MapReduceBase()

→ Main class

public static void main(String[] args) throws Exception {

WCDriver driver = new WCDriver();

driver.run(args);

MapReduceBase()

public class WCReducer extends MapReduceBase {
 IntWritable key, IntWritable value;
 Public void reduce (Text key, IntWritable value,
 OutputCollector<Text, IntWritable> output) throws
 IOException, InterruptedException {
 int count = 0;
 comb (Value harnessed);
 count += i.get();
 Output.collect (key, new IntWritable (count));
 }
 }

Public class WCDriver Extends Configurable implements Tool {
 Public int run (String args[]) throws IOException {
 if (args.length < 2) {
 System.out.println ("Please give valid month");
 return -1;
 }
 }
 }

Public static void main (String args[]) throws Exception {
 int exitCode = ToolRunner.run (new WCJob (1, args));
 System.out.println (exitCode);
 }
}

⑥ Mean Max temp for every month

Mapper :
 import Sys
 import CSV
 from datetime import datetime
 reader = CSV.reader (Sys.stdin.readline())
 next (reader)

for row in reader:
 try:
 dateStr = row[0]
 temp = float (row[1])
 month = datetime.strptime (dateStr, "%Y-%m-%d").month
 print (f'{month} {temp}')
 except Exception:
 continue

Reducer :
 #! /usr/bin/env python3
 import sys
 currentMonth = None
 totalTemp = 0.0
 count = 0

for line in sys.stdin:
 line = line.strip()
 if not line:
 continue

⑥ Mean Max temp for any month & group with specific month

Mapper :

```
import sys
```

```
import CSV
```

```
from datetime import datetime
```

```
reader = CSV.reader (sys.stdin, delimiter = ",")
```

```
next (reader)
```

```
for row in reader:
```

```
try:
```

```
date_st = row[0]
```

```
temp = float (row[1])
```

```
month = datetime.strptime (date_st, "%Y-%m-%d").month
```

```
print ("{} {}")
```

except Exception:

continue

Reducer :

```
#!/usr/bin/env python3
```

```
import sys
```

```
current_month = None
```

```
total_temp = 0.0
```

```
count = 0
```

```
for line in sys.stdin:
```

```
line = line.strip()
```

```
if not line:
```

```
continue
```

month, temp = line.split('t')

if current-month == month:

total-temp += temp

count += 1

else:

if current-month is not None:

~~mean-temp = total-temp / count~~

print(f" {current-month} \{t} {mean-temp:.2f}\")

current-month = month

total-temp = temp

count = 1

if current-month is not None:

mean-temp = total-temp / count

print(f" {current-month} \{t} {mean-temp:.2f}\")

else: (t - mean-temp) * 2 / (mean-temp + t) = result

(t - result) / (t + result) = error

(t - result) / (t + result) = error

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(t - result) / (t + result) = error

Feb 6
Hadoop → map reduce to list top 10 max

start cell.sh

name mapperword.py

#!/usr/bin/python3

import sys

import re

for line in sys.stdin

words = re.findall(r'\w+', line)

for word in words:

print(f"\t{word}\t1")

name reducer word.py

#!/usr/bin/python3

import sys

from collections import defaultdict

count_map = defaultdict(int)

for line in sys.stdin:

word, count = line.strip().split()

count_map[word] += int(count)

sorted_words = sorted(count_map.items(),

for word, count in sorted_words[:40]:

print(f"\t{word}\t{count}\t")

Chmod +x mapperword.py

Chmod +x reducerword.py

hadoop fs -mkdir /word

hdfs dfs -put /home/hadoop/download/

hdfs dfs -ls /word

Feb 6

Hadoop → map reduce to list top 10 max words

start all.sh

name mapperword.py

```
#!/usr/bin/python3
```

```
import sys
```

```
import re
```

```
for line in sys.stdin:
```

```
    words = re.findall(r'\w+', line.lower())
```

```
    for word in words:
```

```
        print(f'{word}\t1')
```

name reducer word.py

```
#!/usr/bin/python3
```

```
import sys
```

```
from collections import defaultdict
```

```
count_map = defaultdict(int)
```

```
for line in sys.stdin:
```

```
    word, count = line.strip().split('\t')
```

```
    count_map[word] += int(count)
```

```
sorted_words = sorted(count_map.items(), key=lambda x: (-x[1], x[0]))
```

```
for word, count in sorted_words[:10]:
```

```
    print(f'{word}\t{count}'")
```

chmod +x mapperword.py

chmod +x reducerword.py

hadoop fs -mkdir /word

hdfs dfs -put /home/hadoop/download/tut_6st/word

hdfs dfs -ls /word

1 hadoop - straps... \rightarrow jail
value goes to question

defferent
of knowldege, man
of knowledge

we traps
we traps
we are not
we are others
or in knowle

g. New number come,

object with id(a)) is

we traps:

is before word is not
this before a question

a little eye at will not
it - two; know

+ (know) you don't

but) when - do we see
other, it that know is
not (if) know

affectionate or look

knowledge is not
knowledge of person

know (a - b) of

Lab -

Scalar

write a program to print from 1 to 100

\rightarrow

name Print Number . Scala

Object Print Number {

def main(args : Array[String]): Unit = {

for (i : Int = 1 to 100)

print(i)

}

object Print Number extends App {

Print Number

Output: 12345 ... 100

Spark - Open ended

TextClean . Scala

import org.apache.spark.SparkConf

import org.apache.Spark.Strategy

object TextClean {

def main(args: Array[String]): Unit = {

val conf = new SparkConf().SetAppName("Text Clean")

Set Master = ("local [*]")

val ssc = new StreamingContext(conf, Seconds(5))

val stopWords = Set("a", "an", "the", "is", "am", "on", "in",
"with", "to")

val hou = ssc .socketTextStream("localhost", 9999)

val cleaned = hou .flatMap(_.split(" ")).filter(w => w != "

map(_ .toLowerCase).filter(w => !stopWords .contains(w))

empty & ! stopWords .contains(w))

Cleaned .for each RDD (rdd => {

printWriter ("Cleaned Output: ")

rdd .collect () .for each (println)

})

ssc .start()

ssc .awaitTermination()

})

Scala - classpath of SparkHome/jar = "test clean - jar"

jar of TestClean.jar TestClean - Class

Spark - submit - class TextClean - made Local C]

TestClean.jar

nc - k 9229

getLine((String path : String) from file

This is an example of how to do spark with path key

Output:

The example does not work quite well yet. In

the code, the path is set with "text" but it is always "text" in

(String path)

(app("text")) will not take the path "text" in

((String path) path -> println(path)) will always print

"text" because the path is always "text".

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