Case Study-I

Note:

- 1. In **Task1** of this case study, movies that were never rated was also found out.
- 2. This code is tested on **local as well as on HDFS (MR mode)**. Map-Reduce Output follows local output.
- 3. The output count has been kept to **10** on purpose, to demonstrate that the logic is correct.

Input Files:

Local Mode

```
[acadgild@localhost case_study]$ ll
total 695188
-rw-rw-r--. 1 acadgild acadgild
                                      2283388 Jul 17 05:28 movies.csv
-rw-rw-r--. 1 acadgild acadgild
                                          842 Jul 19 10:49 movies small.csv
-rw-rw-r--. 1 acadgild acadgild
                                         2604 Jul 17 10:23 pig_1531803218149.log
-rw-rw-r--. 1 acadgild acadgild 7095502<u>94</u> Jul 17 05:28 ratings.csv
-rw-rw-r--. l acadgild acadgild 💳
                                         410 Jul 19 10:49 ratings_small.csv
-rw-rw-r--. 1 acadgild acadgild
-rw-rw-r--. 1 acadgild acadgild
                                         3341 Jul 31 18:33 Taskl.pig
2990 Jul 31 18:34 Task2.pig
-rw-rw-r--. 1 acadgild acadgild
                                         4146 Jul 31 18:41 Task3.pig
[acadgild@localhost case_study]$ pwd
/home/acadgild/Desktop/TestHadoop/pig/case_study
You have new mail in /var/spool/mail/acadgild
[acadgild@localhost case_study]$ |
```

MapReduce Mode

```
[acadgild@localhost ~] hadoop fs -ls /hadoopdata/pig/case study/
18/07/31 20:54:21 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
found 2 items
-rw-r-r-- 1 acadgild supergroup 2283388 2018-07-31 19:38 /hadoopdata/pig/case_study/movies.csv
-rw-r--- 1 acadgild supergroup 709550294 2018-07-31 19:38 /hadoopdata/pig/case_study/ratings.csv
[acadgild@localhost ~]$
```

Task 1(Local Mode):

What are the movie titles that the user has rated? & Not rated???

Ans:

pig -brief -x local Task1.pig

(**pig -x local** - runs pig command in local mode<since it is very large file, running locally>

-brief - Ignores Info messages & other unwanted messages dump over screen)

Note: Program files are properly documented for a detailed description of each instruction used within the program along with sample inputs.

ScreenShot:

```
[azadigild@localhost case_study]s pig __brisf _x local Taskl.pig
SLF43: Class path cortains multipte_SLF41 bindingS.
SLF43: Class path cortains multipte_SLF41 bindingS.
SLF43: Class path cortains multipte_SLF41 bindingS.
SLF43: Found binding in [jar:file:/home/azadgild/install/hadoop/hadoop-2.6.5/share/hadoop/common/lib/slf4j-log4j12-1.7.5.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF43: Found binding in [jar:file:/home/azadgild/install/habse/hbase-1.2.6/lib/slf4j-log4j12-1.7.5.jar!/org/slf4j/impl/StaticLoggerBinder.class]
SLF43: Seo thttp://www.Slf4j.org/codes.html#multiple_bindings for an explanation.
SLF43: Actual binding is of type [org.slf4].impl.Log4jloggerFactory]
SLF43: Seo thttp://www.Slf4j.org/codes.html#multiple_bindings for an explanation.
SLF43: Actual binding is of type [org.slf4].impl.Log4jloggerFactory]
SLF43: Seo thttp://www.Slf4j.org/codes.html#multiple_bindings for an explanation.
SLF43: Actual binding is of type [org.slf4].impl.Log4jloggerFactory]
SLF43: Seo thttp://www.Slf4j.org/codes.html#multiple_bindings.slf4]
SLF43: Actual binding is of type [org.slf4].impl.Log4jloggerFactory]
SLF43: Actual binding is of type [org.slf4].impl.Log4jloggerFactory]
SLF43: Seo thttp://www.Slf43: Slf44; Slf44
```

Output (Rated):

```
job_1533041762263_0015 

Connecting to ResourceManager at localhost/127.0.0.1:8032
Application state is completed. FinalApplicationStatus=SUCCEDED. Redirecting to job history server Connecting to ResourceManager at localhost/127.0.0.1:8032
Application state is completed. FinalApplicationStatus=SUCCEDED. Redirecting to job history server Connecting to ResourceManager at localhost/127.0.0.1:8032
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Application state is completed. FinalApplicationStatus=SUCCEDED. Redirecting to job history server Connecting to ResourceManager at localhost/127.0.0.1:8032
Application state is completed. FinalApplicationStatus=SUCCEDED. Redirecting to
```

Output (Not Rated):

```
Spillable Memory Manager spill count : 0
Total bags proactively spilled: 0
Total records proactively spilled: 0
Job DAG:
Job LoAG:
Job Local1672383806_0004 -> job_local909731179_0005,
Job Local909731179_0005 -> job_local906208195_0006,
Job_local908208195_0006

Cannot initialize JVM Metrics with processName=JobTracker, sessionId= - already initialized
Cannot initialize JVM Metrics with processName=JobTracker, sessionId= - already initialized
Cannot initialize JVM Metrics with processName=JobTracker, sessionId= - already initialized
Cannot initialize JVM Metrics with processName=JobTracker, sessionId= - already initialized
Cannot initialize JVM Metrics with processName=JobTracker, sessionId= - already initialized
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Cannot initialize JVM Metrics with processName=JobTracker, sessionId= - already initialized
Cannot in
```

Task 1(Map-Reduce Mode):

What are the movie titles that the user has rated? & Not rated???

Ans:

pig -brief Task1.pig

(**pig** - runs pig script in MR mode. This is the default mode.

-brief - Ignores Info messages & other unwanted messages dump over screen)

Note: Program files are properly documented for a detailed description of each instruction used within the program along with sample inputs.

ScreenShot:

```
[acadgild@localhost case_study]$ pig -brief Task1.pig
18/07/31 19:47:31 1NFO pig.texctypeProvider: Trying ExecType : LOCAL
18/07/31 19:47:31 1NFO pig.texctypeProvider: Trying ExecType : MAPREDUCE
18/07/31 19:47:31 1NFO pig.texctypeProvider: Picked MaPREDUCE
Logging error messages to: /home/acadgild/Desktop/TestHadoop/pig/case_study/pig_1533046651431.log
Sit-43: Class path contains multiple Sit-43 ibindings.
Sit-43: Focus path contains multiple Sit-43 ibindings.
Sit-43: Focus path contains multiple Sit-43 ibindings.
Sit-43: Focus path contains multiple plantings.
Sit-43: See http://www.sif4j.org/codes.html#multiple bindings for an explanation.

Sit-43: See http://www.sif4j.org/codes.html#multiple bindings for an explanation.

Sit-43: See http://www.sif4j.org/codes.html#multiple bindings for an explanation.

Sit-43: See http://www.sif4j.org/codes.html#multiple bindings for an explanation.

Sit-43: See http://www.sif4j.org/codes.html#multiple bindings for an explanation.

Sit-43: See http://www.sif4j.org/codes.html#multiple bindings for an explanation.

Sit-43: See http://www.sif4j.org/codes.html#multiple bi
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```

Output (Rated):

```
job_1533041762263_0014 ->
job_1533041762263_0015
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        job_1533041762263_0015,
Connecting to ResourceManager at localhost/127.0.0.1:8032
Application state is completed. FinalApplicationStatus=SUCCEEDED. Redirecting to job history server Connecting to ResourceManager at localhost/127.0.0.1:8032
Application state is completed. FinalApplicationStatus=SUCCEEDED. Redirecting to job history server Connecting to ResourceManager at localhost/127.0.0.1:8032
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Application state is completed. FinalApplicationStatus=SUCCEEDED. Redirecting to job history server Connecting to ResourceManager at localhost/127.0.0.0.1:8032
Application state is completed. FinalApplicationStatus=SUCCEEDED. Redirecting to job histo
    Application state is completed. FinalApplicationStatus-Success!

fs.default.name is deprecated. Instead, use fs.defaultFS
Key [pig.schematuple] was not set... will not generate code.
Total input paths to process: 1
Total i
```

Output (Not Rated):

```
Connecting to ResourceManager at localhost/127.0.0.1:8032
Application state is completed. FinalApplicationStatus=SUCCEEDED. Redirecting to job history server
Connecting to ResourceManager at localhost/127.0.0.1:8032
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Connecting to ResourceManager at localhost/127.0.0.1:8032
Application state is completed. FinalApplicationStatus=SUCCEEDED. Redirecting to job history server
Connecting to ResourceManager at localhost/127.0.0.1:8032
Application state is completed. FinalApplicationStatus=SUCCEEDED. Redirecting to job history server
Connecting to ResourceManager at localhost/127.0.0.1:8032
Application state is completed. FinalApplicationStatus=SUCCEEDED.
Connecting to ResourceManager at localhost/127.0.0.1:8032
Application state is completed. FinalApplicationStatus=SUCCEEDED.
Connecting to ResourceManager at localhost/127.0.0.1:8032
Ap
```

Task 2:

How many times a movie has been rated by the user?

Ans:

pig -brief -x local Task2.pig

(**pig -x local** - runs pig command in local mode<since it is very large file, running locally>

 $\boldsymbol{\text{-brief}}\,$ - Ignores Info messages & other unwanted messages dump over screen)

Note: Program files are properly documented for a detailed description of each instruction used within the program along with sample inputs.

ScreenShot:

```
[acadgild@localhost case_study]$ pig -brief .x local Task2.pig

SLF43: class path contains multiple SLF43 bindings

SLF43: Found binding in [jar:file:/home/acadgild/install/hadoon/hadoop-2.6.5/share/hadoop/common/lib/slf4j-log4j12-1.7.5.jar!/org/slf4j/impl/Stat

SLF43: Found binding in [jar:file:/home/acadgild/install/hadoop/hadoop-2.6.5/share/hadoop/common/lib/slf4j-log4j12-1.7.5.jar!/org/slf4j/impl/StaticLoggerBinder.class]

SLF43: See http://www.slf4j.org/codes.html#multiple bindings for an explanation.

SLF43: See http://www.slf4j.org/codes.html#multiple bindings for an explanation.

SLF43: Actual binding is of type [org.slf4j.impl.log4]loggerFactory]

18/07/31 19:20:31 INF0 pig.texcTypeProvider: Trying ExecType: LOCAL

1
```

Output:

```
Spillable Memory Manager spill count: 0
Total bags proactively spilled: 0
Total records proactively spilled: 0

Job DAG:
Job Local2209966198_0001 -> job local386285371_0002,
Job local21209966198_0001 -> job local22119680997_0003,
Job local2319600997_0003

Cannot initialize JVM Metrics with processName=JobTracker, sessionId= - already initialized
Cannot initialize JVM Metrics with processName=JobTracker, sessionId= - already initialized
Cannot initialize JVM Metrics with processName=JobTracker, sessionId= - already initialized
Cannot initialize JVM Metrics with processName=JobTracker, sessionId= - already initialized
Cannot initialize JVM Metrics with processName=JobTracker, sessionId= - already initialized
Cannot initialize JVM Metrics with processName=JobTracker, sessionId= - already initialized
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Cannot initialize JVM Metrics with processName=JobTracker, sessionId= - already initialized
Cannot initialize JVM Metrics with processName=JobTracker, sessionId= - already initialized
Cannot initialize JVM Metrics with processName=JobTracker, sessionId= - already initialized
Cannot initialize JVM Metrics with processName=JobTracker, sessionId= - already initialized
Cannot initialize JVM Metrics with processName=JobTracker, sessionId= - already initialized
Cannot initialize JVM Metrics with process
```

Task 2(Map-Reduce Mode):

How many times a movie has been rated by the user?

Ans:

pig -brief Task2.pig

(**pig** - runs pig script in MR mode. This is the default mode.

-brief - Ignores Info messages & other unwanted messages dump over screen)

Note: Program files are properly documented for a detailed description of each instruction used within the program along with sample inputs.

ScreenShot:

Output:

```
Connecting to ResourceManager at localhost/127.0.0.1:8032
Application state is completed. FinalApplicationStatus=SUCCEEDED. Redirecting to job history server Connecting to ResourceManager at localhost/127.0.0.1:8032
Application state is completed. FinalApplicationStatus=SUCCEEDED. Redirecting to job history server Connecting to ResourceManager at localhost/127.0.0.1:8032
Application state is completed. FinalApplicationStatus=SUCCEEDED. Redirecting to job history server Connecting to ResourceManager at localhost/127.0.0.1:8032
Application state is completed. FinalApplicationStatus=SUCCEEDED. Redirecting to job history server Connecting to ResourceManager at localhost/127.0.0.1:8032
Application state is completed. FinalApplicationStatus=SUCCEEDED. Redirecting to job history server Connecting to ResourceManager at localhost/127.0.0.1:8032
Application state is completed. FinalApplicationStatus=SUCCEEDED. Redirecting to job history server Connecting to ResourceManager at localhost/127.0.0.1:8032
Application state is completed. FinalApplicationStatus=SUCCEEDED. Redirecting to job history server Connecting to ResourceManager at localhost/127.0.0.1:8032
Application state is completed. FinalApplicationStatus=SUCCEEDED. Redirecting to job history server Connecting to ResourceManager at localhost/127.0.0.1:8032
Application state is completed. FinalApplicationStatus=SUCCEEDED. Redirecting to job history server Connecting to ResourceManager at localhost/127.0.0.1:8032
Application state is completed. FinalApplicationStatus=SUCCEEDED. Redirecting to job history server Connecting to ResourceManager at localhost/127.0.0.1:8032
Application state is completed. FinalApplicationStatus=SUCCEEDED. Redirecting to job history server Connecting to ResourceManager at localhost/127.0.0.1:8032
Application state is completed. FinalApplicationStatus=SUCCEEDED. Redirecting to job history server Connecting to ResourceManager at localhost/127.0.0.1:8032
Application state is completed. FinalApplicationStatus=SUCCEEDED. Redirecting to job history
  Application state is completed. FinalApplicationStatus=SUCCESSUCCESS!

fs.default.name is deprecated. Instead, use fs.defaultFS
Key [pig.schematuple] was not set... will not generate code. Total input paths to process: 1
Total input paths to process: 1
Total input paths to process: 1
(Jumanji (1995),26060)
(Grumpier Old Men (1995),15497)
(Waiting to Exhale (1995),2981)
(Father of the Bride Part II (1995),15258)
(Heat (1995),27895)
(Sabrina (1995),15157)
(Tom and Huck (1995),1521)
(Sudden Death (1995),4273)
(GoldenEye (1995),32534)
          (GoldenEye (1995),32534)
(Toy Story (1995),66008)
     Pig script completed in 7 minutes, 37 seconds and 248 milliseconds (457248 ms) You have new mail in /var/spoel/mail/acadgild
```

Task 3:

What is the average rating given for a movie?

Ans:

pig -brief -x local Task3.pig

(**pig -x local** - runs pig command in local mode<since it is very large file, running locally>

-brief - Ignores Info messages & other unwanted messages dump over screen)

Note: Program files are properly documented for a detailed description of each instruction used within the program along with sample inputs.

ScreenShot:

```
Taxadgild@localhast case studyls pig _brisf _x local Task3.pig
SLF43: Class path contains multiple SLF40 bindings.
SLF41: Class path contains multiple SLF40 bindings.
SLF41: Found binding in [jar:file://home/acadgild/install/hadoop/hadoop-2.6.5/share/hadoop/common/lib/slf4j-log4j12-1.7.5.jar!/org/slf4j/impl/stat icloggerBinder.class]
SLF41: Found binding in [jar:file://home/acadgild/install/hbase/hbase-1.2.6/lib/slf4j-log4j12-1.7.5.jar!/org/slf4j/impl/StaticloggerBinder.class]
SLF41: Found binding in [jar:file://home/acadgild/install/hbase/hbase-1.2.6/lib/slf4j-log4j12-1.7.5.jar!/org/slf4j/impl/StaticloggerBinder.class]
SLF41: See http://www.Slf4j.org/codes.html#multiple bindings for an explanation.
SLF41: Actual binding is of type [org.slf4j.impl.Log4jloggerFactory]
18/07/31 19:25:30 1MF0 pig.ExecTypeProvider: Trying ExecType ! LOCAL
18/07/31 19:25:30 1MF0 pig.ExecTypeProvider: Picked LOCAL as the ExecType
Apache Pig version 0.16.0 (17146530) compiled but on 1 2016, 23:10:49
Logging error messages to: home/acadgild/peaks.pdf states of the state of the st
```

Output:

```
Spillable Memory Manager spill count : 0
Total bags proactively spilled: 0
Total records proactively spilled: 0
Job DAG:
job localIIS006481 0001 -> job localS18922245 0002,
job localIIS006481 0001 -> job localS18922245 0002,
job localS18922245 0002 -> job local908437510 0003,
job localS18922245 0002 -> job local908437510 0003,
job local908437510 0003

Cannot initialize JVM Metrics with processName=JobTracker, sessionId - already initialized
Cannot initialize JVM Metrics with processName=JobTracker, sessionId - already initialized
Cannot initialize JVM Metrics with processName=JobTracker, sessionId - already initialized
Cannot initialize JVM Metrics with processName=JobTracker, sessionId - already initialized
Cannot initialize JVM Metrics with processName=JobTracker, sessionId - already initialized
Cannot initialize JVM Metrics with processName=JobTracker, sessionId - already initialized
Cannot initialize JVM Metrics with processName=JobTracker, sessionId - already initialized
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Cannot initialize JVM Metrics with processName=JobTracker, sessionId - already initialized
Cannot initialize JVM Metrics with processName=JobTracker, sessionId - already initialized
Cannot initialize JVM Metrics with processName=JobTracker, sessionId - already initialized
Cannot initialize JVM Metrics with processName=JobTrac
```

Task 3(Map-Reduce Mode):

What is the average rating given for a movie?

Ans:

pig -brief Task3.pig

(**pig** - runs pig script in MR mode. This is the default mode.

-brief - Ignores Info messages & other unwanted messages dump over screen)

Note: Program files are properly documented for a detailed description of each instruction used within the program along with sample inputs.

ScreenShot:

```
| Teradgild@localhost case studyls mig. brief Tekka.nic |
| 18/97/31 20:37:10 INFO Dig.Exectypestroride:: Crying Exectype : LOCAL |
| 18/97/31 20:37:10 INFO Dig.ExectypeProvide: Picked MAMPREDUCE |
| 18/97/31 20:37:10 INFO Dig.ExectypeProvide: Picked MAMPREDUCE |
| 18/97/31 20:37:10 INFO Dig.ExectypeProvide: Picked MAMPREDUCE as the Exectype. |
| Apache Pig version 0.16.0 (r]746530) compiled Jun 01 2016, Zs:10:149 |
| Apache Pig version 0.16.0 (r]746530) compiled Jun 01 2016, Zs:10:149 |
| Apache Pig version 0.16.0 (r]746530) compiled Jun 01 2016, Zs:10:149 |
| Apache Pig version 0.16.0 (r]746530) compiled Jun 01 2016, Zs:10:149 |
| Apache Pig version 0.16.0 (r]746530) compiled Jun 01 2016, Zs:10:149 |
| Apache Pig version 0.16.0 (r]746530) compiled Jun 01 2016, Zs:10:149 |
| Apache Pig version 0.16.0 (r]746530) compiled Jun 01 2016, Zs:10:149 |
| Apache Pig version 0.16.0 (r]746530) compiled Jun 01 2016, Zs:10:149 |
| Apache Pig version 0.16.0 (r]746530 |
| Apache Pig version 0.16.0 (r]7465
```

End

Output:

```
Connecting to ResourceManager at localhost/127.0.0.1:8032
Application state is completed. FinalApplicationStatus=SUCCEEDED. Redirecting to job history server
Connecting to ResourceManager at localhost/127.0.0.1:8032
Application state is completed. FinalApplicationStatus=SUCCEEDED. Redirecting to job history server
Connecting to ResourceManager at localhost/127.0.0.1:8032
Application state is completed. FinalApplicationStatus=SUCCEEDED. Redirecting to job history server
Connecting to ResourceManager at localhost/127.0.0.1:8032
Application state is completed. FinalApplicationStatus=SUCCEEDED. Redirecting to job history server
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Application state is completed. FinalApplicationStatus=SUCCEEDED. Redirecting to job history server
Connecting to ResourceManager at localhost/127.0.0.1:8032
Application state is completed. FinalApplicationStatus=SUCCEEDED. Redirecting to job history server
Connecting to ResourceManager at localhost/127.0.0.1:8032
Application state is completed. FinalApplicationStatus=SUCCEEDED. Redirecting to job history server
Connecting to ResourceManager at localhost/127.0.0.1:8032
Application state is completed. FinalApplicationStatus=SUCCEEDED. Redirecting to job history server
Connecting to ResourceManager at localhost/127.0.0.1:8032
Application state is completed. FinalApplicationStatus=SUCCEEDED. Redirecting to job history server
Connecting to ResourceManager at localhost/127.0.0.1:8032
Application state is completed. FinalApplicationStatus=SUCCEEDED. Redirecting to job history
```
