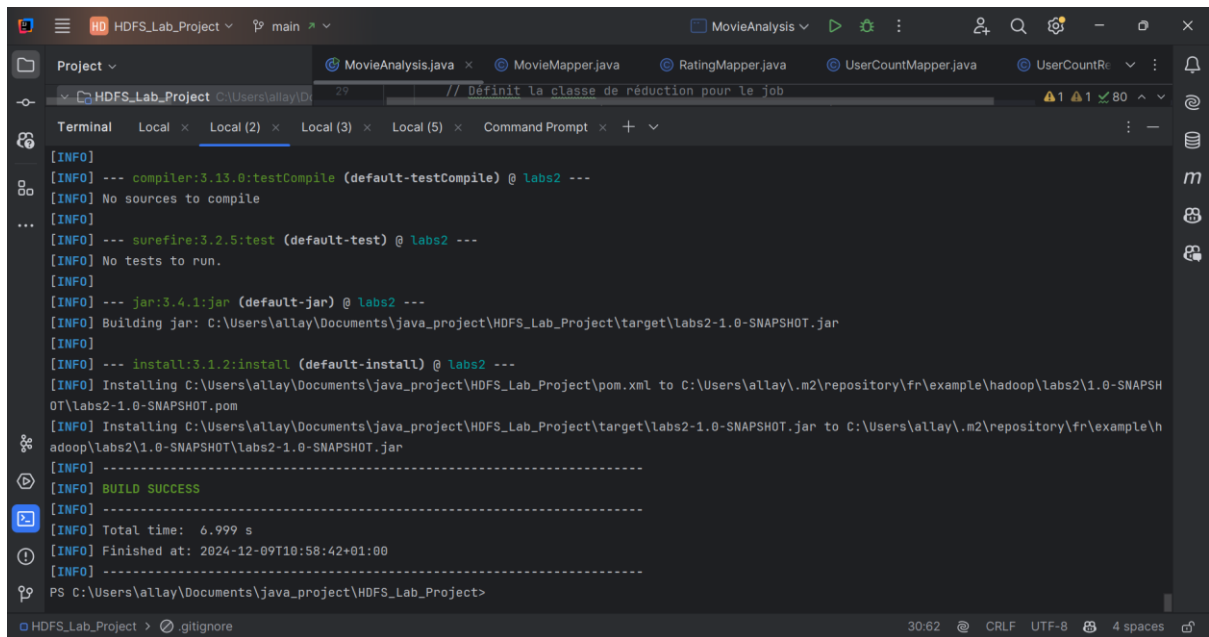


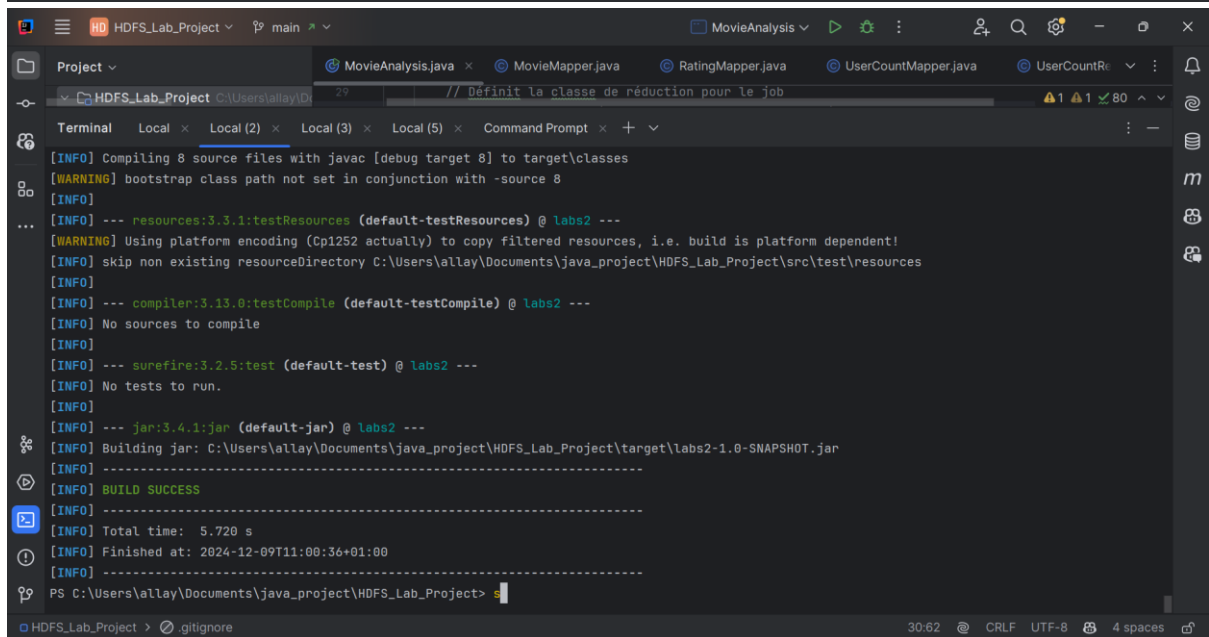
## Résultats de l'Analyse des Films



```
Project ▾
HDFS_Lab_Project C:\Users\allay\Documents\java_project\HDFS_Lab_Project
// Définit la classe de réduction pour le job

Terminal Local × Local (2) × Local (3) × Local (5) × Command Prompt × + ▾

[INFO]
[INFO] --- compiler:3.13.0:testCompile (default-testCompile) @ labs2 ---
[INFO] No sources to compile
[INFO]
[INFO] --- surefire:3.2.5:test (default-test) @ labs2 ---
[INFO] No tests to run.
[INFO]
[INFO] --- jar:3.4.1:jar (default-jar) @ labs2 ---
[INFO] Building jar: C:\Users\allay\Documents\java_project\HDFS_Lab_Project\target\labs2-1.0-SNAPSHOT.jar
[INFO]
[INFO] --- install:3.1.2:install (default-install) @ labs2 ---
[INFO] Installing C:\Users\allay\Documents\java_project\HDFS_Lab_Project\pom.xml to C:\Users\allay\.m2\repository\fr\example\hadoop\labs2\1.0-SNAPSHOT\labs2-1.0-SNAPSHOT.pom
[INFO] Installing C:\Users\allay\Documents\java_project\HDFS_Lab_Project\target\labs2-1.0-SNAPSHOT.jar to C:\Users\allay\.m2\repository\fr\example\hadoop\labs2\1.0-SNAPSHOT\labs2-1.0-SNAPSHOT.jar
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 6.999 s
[INFO] Finished at: 2024-12-09T10:58:42+01:00
[INFO] -----
PS C:\Users\allay\Documents\java_project\HDFS_Lab_Project>
```



```
Project ▾
HDFS_Lab_Project C:\Users\allay\Documents\java_project\HDFS_Lab_Project
// Définit la classe de réduction pour le job

Terminal Local × Local (2) × Local (3) × Local (5) × Command Prompt × + ▾

[INFO] Compiling 8 source files with javac [debug target 8] to target\classes
[WARNING] bootstrap class path not set in conjunction with -source 8
[INFO]
[INFO] --- resources:3.3.1:testResources (default-testResources) @ labs2 ---
[WARNING] Using platform encoding (Cp1252 actually) to copy filtered resources, i.e. build is platform dependent!
[INFO] skip non existing resourceDirectory C:\Users\allay\Documents\java_project\HDFS_Lab_Project\src\test\resources
[INFO]
[INFO] --- compiler:3.13.0:testCompile (default-testCompile) @ labs2 ---
[INFO] No sources to compile
[INFO]
[INFO] --- surefire:3.2.5:test (default-test) @ labs2 ---
[INFO] No tests to run.
[INFO]
[INFO] --- jar:3.4.1:jar (default-jar) @ labs2 ---
[INFO] Building jar: C:\Users\allay\Documents\java_project\HDFS_Lab_Project\target\labs2-1.0-SNAPSHOT.jar
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 5.720 s
[INFO] Finished at: 2024-12-09T11:08:36+01:00
[INFO] -----
PS C:\Users\allay\Documents\java_project\HDFS_Lab_Project>
```

```
Project ▾
  ▾ HDFS_Lab_Project C:\Users\allay\Documents\java_project\HDFS_Lab_Project
    29 // Définit la classe de réduction pour le job

Terminal Local x Local (2) x Local (3) x Local (5) x Command Prompt x + ▾
  Installez la dernière version de PowerShell pour de nouvelles fonctionnalités et améliorations ! https://aka.ms/PSWindows

... PS C:\Users\allay\Documents\java_project\HDFS_Lab_Project\Docke\ Labs> docker-compose up -d
time="2024-12-09T10:57:41+01:00" level=warning msg="Found orphan containers ([supervisor storm-ui nimbus zookeeper kafka kafka-ui]) for this project
. If you removed or renamed this service in your compose file, you can run this command with the --remove-orphans flag to clean it up."
[+] Running 5/5
  ✓ Container datanode      Running      0.0s
  ✓ Container nodemanager   Running      0.0s
  ✓ Container resourcemanager Running      0.0s
  ✓ Container namenode      Running      0.0s
  ✓ Container historyserver Running      0.0s

PS C:\Users\allay\Documents\java_project\HDFS_Lab_Project\Docke\ Labs> docker exec -it namenode bash
root@0c3da1455689:/#
```

```
Project ▾
  ▾ HDFS_Lab_Project C:\Users\allay\Documents\java_project\HDFS_Lab_Project
    29 // Définit la classe de réduction pour le job

Terminal Local x Local (2) x Local (3) x Local (5) x Command Prompt x + ▾
  Deleted /tmp/temp_output
  Deleted /output/final_output
  Deleted /output/final_output
... root@0c3da1455689:/# hadoop jar /tmp/labs2-1.0-SNAPSHOT.jar org.example.MovieAnalysis /input/ratings.csv /input/movies.csv /output
2024-12-09 10:02:43,563 INFO client.RMPProxy: Connecting to ResourceManager at resourcemanager/172.20.0.5:8032
2024-12-09 10:02:43,717 INFO client.AHSProxy: Connecting to Application History server at historyserver/172.20.0.2:10200
2024-12-09 10:02:43,889 WARN mapreduce.JobResourceUploader: Hadoop command-line option parsing not performed. Implement the Tool interface and execute your application with ToolRunner to remedy this.
2024-12-09 10:02:43,918 INFO mapreduce.JobResourceUploader: Disabling Erasure Coding for path: /tmp/hadoop-yarn/staging/root/.staging/job_1733738295990_0001
2024-12-09 10:02:44,027 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localhostTrusted = false, remoteHostTrusted = false
2024-12-09 10:02:44,150 INFO input.FileInputFormat: Total input files to process : 1
2024-12-09 10:02:44,183 INFO input.FileInputFormat: Total input files to process : 1
2024-12-09 10:02:44,231 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localhostTrusted = false, remoteHostTrusted = false
2024-12-09 10:02:44,672 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localhostTrusted = false, remoteHostTrusted = false
2024-12-09 10:02:44,685 INFO mapreduce.JobSubmitter: number of splits:6
2024-12-09 10:02:44,846 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localhostTrusted = false, remoteHostTrusted = false
2024-12-09 10:02:44,865 INFO mapreduce.JobSubmitter: Submitting tokens for job: job_1733738295990_0001
2024-12-09 10:02:44,865 INFO mapreduce.JobSubmitter: Executing with tokens: []
2024-12-09 10:02:45,044 INFO conf.Configuration: resource-types.xml not found
2024-12-09 10:02:45,045 INFO resource.ResourceUtils: Unable to find 'resource-types.xml'.
2024-12-09 10:02:45,362 INFO impl.YarnClientImpl: Submitted application application_1733738295990_0001
```

```
Project ▾
  ▾ HDFS_Lab_Project C:\Users\allay\ID...
    29 // Définit la classe de réduction pour le job

Terminal Local × Local (2) × Local (3) × Local (5) × Command Prompt × + ▾
  Merged Map outputs=1
  GC time elapsed (ms)=99
  CPU time spent (ms)=750
  Physical memory (bytes) snapshot=492158976
  Virtual memory (bytes) snapshot=13559296000
  Total committed heap usage (bytes)=439877632
  Peak Map Physical memory (bytes)=297320448
  Peak Map Virtual memory (bytes)=5106368512
  Peak Reduce Physical memory (bytes)=194838528
  Peak Reduce Virtual memory (bytes)=8452927488

  Shuffle Errors
    BAD_ID=0
    CONNECTION=0
    IO_ERROR=0
    WRONG_LENGTH=0
    WRONG_MAP=0
    WRONG_REDUCE=0

  File Input Format Counters
    Bytes Read=0

  File Output Format Counters
    Bytes Written=0

root@0c3da1455689:/#

HDFS_Lab_Project > .gitignore 30:62 @ CRLF UTF-8 4 spaces
```

```
Project ▾
  ▾ HDFS_Lab_Project ▾ main ▾
    MovieAnalysis.java × MovieMapper.java × RatingMapper.java × UserCountMapper.java × UserCountRed...
    ▾ movies.csv ▾ ratings.csv
    ▾ UserCountRed...

Terminal Local × Local (2) × Local (3) × Local (5) × Command Prompt × + ▾
  99996711 24979,4306,3.5,1110658720
  99996900 24979,4993,5.0,1110658716
  99997 2187,Stage Fright (1950),Mystery|Romance|Thriller
  99997008 24979,5952,4.5,1110659781
  99997035 24979,6335,3.5,1110659769
  99997062 24979,6339,4.0,1110659787
  99997116 24979,6947,3.5,1110659905
  99997143 24979,7141,4.0,1110659790
  99997170 24979,7153,4.5,1110659778
  99997224 24979,7458,3.5,1110659952
  99997251 24979,7925,2.5,1110659886
  99997305 24979,8653,3.5,1110659916
  99997332 24979,27706,3.5,1110659826
  99997600 24980,4993,4.0,1487220594
  9999766 2718,3142,5.0,992250963
  99997789 24980,4807,4.0,1487220910
  99997871 24980,48815,5.0,1487220544
  99997899 24980,46976,4.0,1487220759
  9999791 2718,3147,4.0,992249840
  99997927 24980,30872,4.0,1487220645
  99997983 24980,52722,2.0,1487220762
  99998067 24980,56174,4.0,1487220740
  99998151 24980,39315,5.0,1487220575
  9999816 2718,3175,5.0,992251164
  99998179 24980,59615,2.0,1487220765
  99998207 24980,40040,4.0,1487220796
  99998263 24980,40756,3.0,1487220861
  99998319 24980,47087,5.0,1487220854
  99998375 24980,70286,4.0,1487220816
  99998403 24980,78499,5.0,1487220653
  9999841 2718,3254,3.0,992251859
  99998487 24980,81834,5.0,1487220609
  99998515 24980,88125,5.0,1487220617
  99998571 24980,112852,3.5,1487220582
  99998629 24980,162578,5.0,1487220911
  99998658 24980,163809,4.5,1487220925
  99998687 24980,164179,5.0,1487220553
  999987 321,134368,4.0,1540497964
  99998803 24980,167746,5.0,1487220531
  99998832 24981,1,2.0,1115162844

HDFS_Lab_Project > src > main > java > org > example > MovieAnalysis 69:1 (6259 char, 134 line breaks) CRLF UTF-8 4 spaces
```