## LAPORAN JOBSHEET 7 BIG DATA



Oleh:

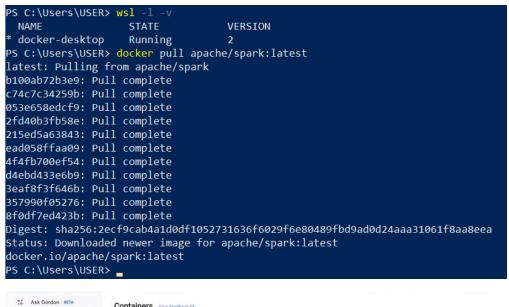
ALBANI RAJATA MALIK

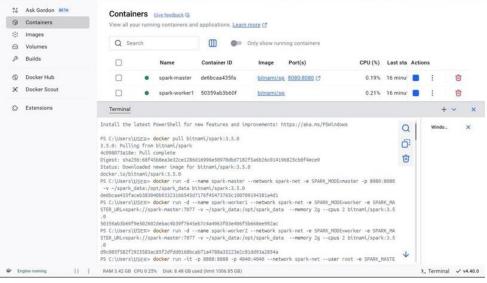
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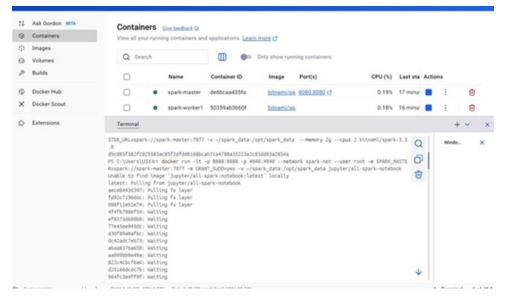
SIB 3E

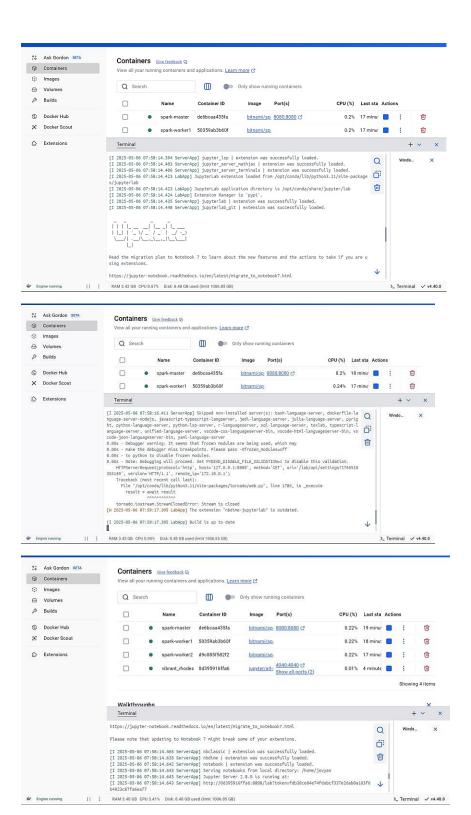
## PROGAM STUDI D-IV SISTEM INFORMASI BISNIS JURUSAN TEKNOLOGI INFORMASI

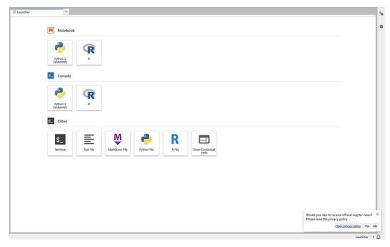
POLITEKNIK NEGERI MALANG











```
× ≣ CountWord.py
                                                                   CountWord.ipynb
                                                                                                                                     °o
1 from pyspark.sql import SparkSession
                                                                                                                                     ă
if __name__ == "__main__":
    spark = SparkSession.builder.appName("WordCount").getOrCreate()
        data = ["Hello Spark", "Hello Docker", "Spark is awesome"]
lines = spark.sparkContext.parallelize(data)
        counts = (
            lines.flatMap(lambda x: x.split(' '))
.map(lambda x: (x, 1))
10
11
12
13
14
15
                   .reduceByKey(lambda a, b: a + b)
        )
        output = counts.collect()
16
17
18
        for (word, count) in output:
    print(f"{word}: {count}")
19
20
        spark.stop()
```

```
tor driver) (5/12)

25/86/14 16:14:56 INFO Executor: Finished task 11.0 in stage 1.0 (TID 23). 2109 bytes result sent to driver 25/86/14 16:14:56 INFO Executor: Finished task 11.0 in stage 1.0 (TID 23). 1479 so on 7f403e1835da (executor driver) (6/12)

25/86/14 16:14:56 INFO PythonRumer: Times: total = 289, boot = −718, init = 1086, finish = 1

25/86/14 16:14:56 INFO PythonRumer: Times: total = 291, boot = −645, init = 929, finish = 7

25/86/14 16:14:56 INFO PythonRumer: Times: total = 291, boot = −645, init = 929, finish = 7

25/86/14 16:14:56 INFO PythonRumer: Times: total = 292, boot = −750, init = 1036, finish = 16

25/86/14 16:14:56 INFO TaskSetManager: Finished task 3.0 in stage 1.0 (TID 10) in 486 ms on 7f403e1835da (executor driver) (7/12)

25/86/14 16:14:56 INFO TaskSetManager: Finished task 3.0 in stage 1.0 (TID 10) in 485 ms on 7f403e1835da (executor driver) (8/12)

25/86/14 16:14:56 INFO TaskSetManager: Finished task 2.0 in stage 1.0 (TID 10) in 485 ms on 7f403e1835da (executor driver) (8/12)

25/86/14 16:14:56 INFO TaskSetManager: Finished task 2.0 in stage 1.0 (TID 10) in 486 ms on 7f403e1835da (executor driver) (9/12)

25/86/14 16:14:56 INFO TaskSetManager: Finished task 2.0 in stage 1.0 (TID 13) in 498 ms on 7f403e1835da (executor driver) (9/12)

25/86/14 16:14:56 INFO TaskSetManager: Finished task 3.0 in stage 1.0 (TID 16). 267 bytes result sent to driver 25/86/14 16:14:56 INFO TaskSetManager: Finished task 3.0 in stage 1.0 (TID 16) in 507 ms on 7f403e1835da (executor driver) (11/12)

25/86/14 16:14:56 INFO TaskSetManager: Finished task 3.0 in stage 1.0 (TID 14) in 507 ms on 7f403e1835da (executor driver) (11/12)

25/86/14 16:14:56 INFO TaskSetManager: Finished task 3.0 in stage 1.0 (TID 15) in 509 ms on 7f403e1835da (executor driver) (11/12)

25/86/14 16:14:56 INFO TaskSetManager: Finished task 3.0 in stage 1.0 (TID 16) in 509 ms on 7f403e1835da (executor driver) (11/12)

25/86/14 16:14:56 INFO TaskSetManager: Finished task 3.0 in stage 1.0 (TID 16) in 509 ms on 7f403e1835da (executor driver)
```