CSE427SLAB1



CSE427s - 8 Lab8 75% (3/4)

1. Flume is used for...

- (A) batch data ingest from RDMS to HDFS
- (B) batch data ingest from a local filesystem to HDFS
- (c) ingesting streaming data into HDFS
- stream processing

✓ 2. What are **short comings of Hadoop MapReduce** that are overcome by Spark?

- A serialization is limited to key-value paris
- (B) job workflows consisting of multiple jobs can only be DAGs (directed acyclic graphs)
- job workflows consisting of multiple jobs read and write the output of each job to HDFS
- (D) data in HDFS is read-only (no random writes and updates)
- E Java only
- 3. Name a Spark operation that is a transformation.
- 4. Name a Spark operation that is an action.

✓ 5. What are properties of transformations and actions?

- (A) transformations return a variable/value, actions produce an RDD
- B actions return a variable/value, transformations produce an RDD
- (c) job execution is triggered by transformations
- job execution is triggered by actions
- (E) the output of transformations is stored in HDFS
- (F) the output of actions is stored in HDFS

✓ 6. Why is the Spark execution so fast? (select all that apply)

- (A) Command Chaining
- B Lazy Execution
- Pipelining

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 Post your spark cod (postalcode, (lat,long)). 	to create the pair RDD for postal codes in the form
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sc.post.map(lambda line: line.split(' ')).map(lambda fields: (field[0],(field[1],field[2])))

8. Post your spark code to create the pair RDD for product ids and skus in the form (product_id, sku).

sk.map(lambda line: line.split(' ')).map(lambda fields: (field[0], field[1:]))

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