

COMP 6730 Advanced Database Systems Project

Nikhil Nagendra Swami
nikhil_swami@student.uml.edu
01539304
December 3, 2016

Instructions to run the files:

1. I have created different files for main, mapper and reducer for each of the 4 queries.
2. Source files:
 - a. Selection.java
 - b. SelectionMap.java
 - c. SelectionReduce.java
 - d. Projection.java
 - e. ProjectionMap.java
 - f. ProjectionReduce.java
 - g. Handle.java
 - h. HandleMap.java
 - i. HandleReduce.java
 - j. Aggregation.java
 - k. AggregationMap.java
 - l. AggregationReduce.java
3. Create a new java project in eclipse.
4. Import Main, reduce and map file for each query.
5. Import all the required JAR files for hadoop-core from external JAR's.
6. Export the jar.out for each of the projects individually.
7. To run the hadoop file, transfer the input files to hadoop user.
Hadoop fs -put <source folder for data> <destination folder>
Copy them in a folder named 'data'.
8. Running the Hadoop map-reduce:
Hadoop fs jar <jar_name.jar> <className>
Input files for each of the programs are mentioned in the program.
Else command:
Hadoop fs jar <jar_name.jar> <className> <input-file> <output>
9. To view the result:
Hadoop fs -cat <output_file_path>