**CS6350**

**Big data Management Analytics and Management**

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**Assignment#2**

The folder contains following projects:

1. For que-1 : FriendsRecommender
2. For que-2 :MutualFriendsScala
3. For que-3 :MutualFriendsScalaWithDetails
4. For que-4 : FriendsAvgAge

Files in the folder:

1. Project for all 4 questions
2. Jar for all 4 questions
3. Output files

**Source Code and Jar Names:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Question No.** | **Source Code Project Name** | **Jar Name** | **Output File names** |
| 1 | FriendsRecommender | q1.jar | HW1Output.txt |
| 2 | MutualFriendsScala | q2.jar |  |
| 3 | MutualFriendsScalaWithDetails | q3.jar |  |
| 4 | FriendsAvgAge | q4.jar | HW4Output.txt |

**Steps to execute Jars:**

|  |  |
| --- | --- |
| Question No. | Execution Command |
| 1 | ***..\spark-submit***  ***FriendsRecommender\target\scala-2.11\friendsrecommender\_2.11-1.0***  ***.jar <input file> <output file>*** |
| 2 | ***.. \spark-submit MutualFriendsScala\target\scala-2.11\mutualfriends\_2.11-1.0.jar <userId1> <userId2> <input file> <output file>***  Sample for users 100 and 101:  ***.. \spark-submit MutualFriendsScala\target\scala-2.11\mutualfriends\_2.11-1.0.jar 100 101 input.txt output*** |
| 3 | ***spark-submit MutualFriendsScalaWithDetails\target\scala-2.11\mutualwithdetails\_2.11-1.0.jar <userId1> <userId2> <input file – list of friends> <file – user details> <output file>*** |
| 4 | ***..\spark-submit FriendsAvgAge\target\scala-2.11\friendsavgage\_2.11-1.0.jar <input file – list of friends> <file – user details> <output file>*** |

**Output Files Description:**

|  |  |  |
| --- | --- | --- |
| **Question No.** | **Output File Name** | **Description** |
| 1 | Q1Output.txt | This file contains the list of recommendation for the following users: 924, 8941, 8942, 9019, 9020, 9021, 9022, 9990, 9992, 9993 |
| 2 | Q4Output.txt | This file consists of the top 20 users with descending order of friends’ average age with details. |