**CS6350**

**Big data Management Analytics and Management**

**Name: Rohini Yadav Net Id: rsy140030**

**Assignment#1**

The folder contains following projects:

1. For que-1 :PeopleYouMayKnowMapReduce
2. For que-2 :MutualFriends
3. For que-3 :MutualFriendsWithDetails
4. For que-4 :AverageAgeFriendsAndAddressMapReduce

Files in the folder:

1. Source code 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 | PeopleYouMayKnowMapReduce | HW1.jar | HW1Output.txt |
| 2 | MutualFriendsMapReduce | HW2.jar |  |
| 3 | MutualFriendsWithDetailsMapReduce | HW3.jar |  |
| 4 | AverageAgeFriendsAndAddressMapReduce | HW4.jar | HW4Output.txt |

**Steps to execute Jars:**

|  |  |
| --- | --- |
| Question No. | Execution Command |
| 1 | ***hadoop jar HW1.jar PeopleRecommenderDriver <input file> <output file>***  Sample: ***hadoop jar HW1.jar PeopleRecommenderDriver /socNetData/networkdata /rsy140030\_out*** |
| 2 | ***hadoop jar HW2.jar MutualFriendsDriver <input file> <output file> <userId1> <userId2>***  Sample for users 100 and 101: ***hadoop jar HW2.jar MutualFriendsDriver /socNetData/networkdata /rsy140030\_out 100 101*** |
| 3 | ***hadoop jar HW3.jar MutualFrndsDetailsDriver <input file – list of friends> <file – user details> <output file> <userId1> <userId2>***  Sample for users 100 and 101: ***hadoop jar HW3.jar MutualFrndsDetailsDriver /socNetData/networkdata /socNetData/userdata /rsy140030\_out 100 101*** |
| 4 | ***hadoop jar HW4.jar AvgAgeFrndsDriver <input file – list of friends> <file – user details> <output file>***  Sample for users 100 and 101: ***hadoop jar HW4.jar AvgAgeFrndsDriver /socNetData/networkdata /socNetData/userdata /rsy140030\_out*** |

**Output Files Description:**

|  |  |  |
| --- | --- | --- |
| **Question No.** | **Output File Name** | **Description** |
| 1 | HW1CompleteOutput.txt | This file is the output of the 1st Question – PeopleRecommender. It is executed on the sample input provided (on /socNetData/networkdata). It consists of lists of recommendation for each user. |
| 1 | HW1Output.txt | This file contains the list of recommendation for the following users: 924, 8941, 8942, 9019, 9020, 9021, 9022, 9990, 9992, 9993 |
| 2 | HW2Output.txt | Contains Mutual Friends for user Id 100 and 101 |
| 3 | HW3Output.txt | Contains Mutual Friends with details for user Id 100 and 101 |
| 4 | HW4Output.txt | This file consists of the top 20 users with descending order of friends’ average age with details. |