Report of Homework1

Name: Karthika Karunakaran
Net Id: kxk152430

Q1:
Usage: TopTenRecommendations <ip file> <out file>

hadoop jar Mutual.jar TopTenRecommendation /socNetData/networkdata/soc-LiveJournal1Adj.txt /kxk152430_out

This returns the top ten recommendations and if no recommendation returns empty list

Result:
924   439,2409,6995,11860,15416,43748,45881
8941   8940,8943,8944
8942   8939,8940,8943,8944
9019   317,9022,9023
9020   317,9016,9017,9021,9022,9023
9021   317,9016,9017,9020,9022,9023
9022   317,9016,9017,9019,9020,9021,9023
9990   13134,13478,13877,34299,34485,34642,37941
9992   9987,9989,9991,35667
9993   9991,13134,13478,13877,34299,34485,34642,37941

Q2:
Usage: MutualFriendsList <ip file> <out file> <userA> <userB>

hadoop jar Mutual.jar MutualFriendsList /socNetData/networkdata/soc-LiveJournal1Adj.txt /kxk152430_out 49940 49950

This returns the list of mutual friends when 2 users has mutual friends else does not return anything

Sample results:
49940,49950   49967,49987,49931,49958,49896,49961,49959

No mutual friends returns nothing:
49999,49940

Q3:
Usage: DriverclassMutualDetails <ip file> <dist cache file> <out file> <userA> <userB>

hadoop jar Mutual.jar DriverclassMutualDetails /socNetData/userdata/userdata.txt /socNetData/networkdata/soc-LiveJournal1Adj.txt /kxk152430_out 49940 49950

This returns the list of mutual name and zipcode when 2 users has mutual friends else does not return anything

Sample results:
49940 49950   [Nicholas:17404, Carylon:79106, Joeann:11743, Michael:37212, Angela:33128, John:50317, David:33487]

No mutual friends case returns nothing:
49999 49950

Q4:
Usage: AverageAgeCalcDriver- <input dir> <dist cache file> <output dir>

***hadoop jar Mutual.jar DriverclassMutualDetails
/socNetData/networkdata/soc-LiveJournal1Adj.txt
/socNetData/userdata/userdata.txt /kxk152430_out***

This returns the list of top 30 users with their details and average of their friends ages. The top 20 users with highest average age of friends are listed below in order of userIds

Result:

17279,2252 Oakridge Farm Lane,Waukesha,Wisconsin,85.88927
19265,3256 Laurel Lee,Blaine,Minnesota,85.95228
19276,4833 Stewart Street,Indianapolis,Indiana,85.95228
19309,3301 Palmer Road,Westerville,Ohio,85.95228
19318,4035 Canis Heights Drive,Los Angeles,California,85.95228
21589,1606 Briarhill Lane,Akron,Ohio,85.86073
21605,3810 Willis Avenue,Deltona,Florida,85.86073
21609,131 Jett Lane,Los Angeles,California,85.86073
21611,2779 Burke Street,Dedham,Massachusetts,85.86073
21616,1024 Graystone Lakes,Cedar Grove,Georgia,85.86073
2433,4999 Bee Street,Traverse City,Michigan,86.04384
2435,4287 Locust Street,Albany,Georgia,86.04384
2447,1833 Boring Lane,San Francisco,California,86.04384
2448,3057 Elmwood Avenue,Scottsdale,Arizona,86.04384
2450,2741 Timber Ridge Road,Sacramento,California,86.04384
24907,1460 Rose Street,Harvey,Illinois,86.0532
30469,548 Camden Street,Sparks,Nevada,85.989044
34271,2433 Kinney Street,Springfield,Massachusetts,85.933105
37554,371 Blue Spruce Lane,Hanover,Maryland,85.857994
44957,3083 Gateway Road,Portland,Oregon,85.84704
44971,968 Sampson Street,Denver,Colorado,85.84704