Report of Homework2

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

spark-submit --class Recommendations --master local[3] mutualfriendlist_2.10-1.0.jar 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: Mutual <ip file> <userA> <userB> <out file>

spark-submit --class Mutual --master local[3] mutualfriendlist_2.10-1.0.jar soc-LiveJournal1Adj.txt 49940 49950 /kxk152430_out

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

Result:
49940,49950   49896,49931,49958,49959,49961,49967,49987

No mutual friends returns nothing:
49999,49940

Q3:
Usage: MutualDetails <ip file1> <ip file2> <userA> <userB> <out file>

spark-submit --class MutualDetails --master local[3] mutualfriendlist_2.10-1.0.jar soc-LiveJournal1Adj.txt userdata.txt 49940 49950 /kxk152430_out

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

Result:
49940,49950

Carylon:79106,David:33487,John:50317,Angela:33128,Michael:37212,Joeann:11743,Nicholas:17404

No mutual friends case returns nothing:
49999 49950

Q4:
Usage: AgeAvg- <input file1> <input file2> <output dir>

spark-submit --class AgeAvg --master local[3] mutualfriendlist_2.10-1.0.jar soc-LiveJournal1Adj.txt userdata.txt /kxk152430_out

This returns the list of top 20 users with their details and average of their friends
ages.

Result:
(39342,(4939 Hide A Way Road,San Jose,California,86.0))
(22893,(2661 Counts Lane,Cincinnati,Kentucky,86.0))
(22894,(4181 Richards Avenue,Stockton,California,86.0))
(43839,(746 Braxton Street,Prophetstown,Illinois,86.0))
(44971,(968 Sampson Street,Denver,Colorado,86.0))
(34271,(2433 Kinney Street,Springfield,Massachusetts,86.0))
(33692,(4806 Conaway Street,Columbus,Indiana,86.0))
(48926,(238 Golden Street,Miami,Florida,86.0))
(33689,(581 Flinderation Road,Oak Park,Illinois,86.0))
(33698,(3468 Austin Secret Lane,Beryl,Utah,86.0))
(37554,(371 Blue Spruce Lane,Hanover,Maryland,86.0))
(33699,(2729 Findley Avenue,Neche,North Dakota,86.0))
(43806,(568 Columbia Road,Denver,Colorado,86.0))
(49741,(789 American Drive,Blackwood,New Jersey,86.0))
(44957,(3083 Gateway Road,Portland,Oregon,86.0))
(25644,(1139 Emeral Dreams Drive,Rockford,Illinois,86.0))
(33662,(4755 Oakway Lane,Los Angeles,California,86.0))
(33683,(3505 Yorkie Lane,Savannah,Georgia,86.0))
(34447,(1174 Blair Court,Higbee,Missouri,86.0))
(35001,(1157 Ferguson Street,S Boston,Massachusetts,86.0))