Assignment 2 DSB150030

# Q1: -

## REVIEW FILE MANPALATION

A = LOAD '/dsb150030/input/review.csv' AS line;

B = FOREACH A GENERATE FLATTEN((tuple(chararray,chararray,chararray,float)) REGEX\_EXTRACT\_ALL(line,'(.\*)\\:\\:(.\*)\\:\\:(.\*)\\:\\:(.\*)')) AS (review\_id,user\_id,business\_id,stars);

C = GROUP B BY business\_id;

D = foreach C generate group as business\_id, AVG(B.stars) as ratings;

## BUSINESS FILE MANIPULATION

X = LOAD '/dsb150030/input/business.csv' AS line;

Y = FOREACH X GENERATE FLATTEN((tuple(chararray,chararray,chararray)) REGEX\_EXTRACT\_ALL(line,'(.\*)\\:\\:(.\*)\\:\\:(.\*)')) AS (business\_id,full\_address,categories);

Z = filter Y by (full\_address matches '.\*(Palo Alto).\*');

## JOIN and FILTER

Result = join Z BY business\_id ,D BY business\_id;

DistinctResult = DISTINCT Result ;

orderedResult = ORDER DistinctResult by ratings desc;

answer1 = limit orderedResult 10;

dump answer1 ;

store answer1 into '/home/013/d/ds/dsb150030/answer1.txt';

## MOVE TO LOCAL

hdfs dfs -copyToLocal hdfs://cshadoop1/home/013/d/ds/dsb150030/answer1.txt /home/013/d/ds/dsb150030/

## RESULT: -

(TCjOnOepk9KNXlPMHI9BLA,855 El Camino RealPalo Alto, CA 94301,List(Food, Coffee & Tea, Cafes, Restaurants),TCjOnOepk9KNXlPMHI9BLA,5.0)

(T2F7YtQU0Kyg53vjIkk2fA,795 El Camino RealPalo Alto, CA 94301,List(Dermatologists, Doctors, Health and Medical),T2F7YtQU0Kyg53vjIkk2fA,5.0)

(x1tVp-Id4b6ZVYi3rF34ug,232 Stanford Shopping CtrPalo Alto, CA 94304,List(Nail Salons, Beauty and Spas),x1tVp-Id4b6ZVYi3rF34ug,5.0)

(Q0-PK8gX9uDILltcSR6l2Q,805 El Camino RealSte BPalo Alto, CA 94301,List(Doctors, Health and Medical, Internal Medicine),Q0-PK8gX9uDILltcSR6l2Q,5.0)

(0LP9bCzXRtICAPAm1jO0-Q,855 El Camino RealSte 35Palo Alto, CA 94301,List(Women's Clothing, Fashion, Shopping, Shoe Stores),0LP9bCzXRtICAPAm1jO0-Q,5.0)

(S506FIQdswKA0anIlQSF\_g,Palo Alto, CA 94309,List(Food, Coffee & Tea, Event Planning & Services, Caterers),S506FIQdswKA0anIlQSF\_g,5.0)

(xyJQ3SQvNUpcSIb5aWUMAQ,875 Blake Wilbur DrPalo Alto, CA 94304,List(Doctors, Health and Medical, Oncologist),xyJQ3SQvNUpcSIb5aWUMAQ,5.0)

(y-7t0ZDNgSHuAtyebDsRrQ,1101 Welch RdPalo Alto, CA 94304,List(Doctors, Health and Medical, Internal Medicine),y-7t0ZDNgSHuAtyebDsRrQ,5.0)

(zrmO-d-Mw3kv9dWa7Trr9Q,1101 Welch RdSte A1Palo Alto, CA 94304,List(Doctors, Health and Medical, Pediatricians),zrmO-d-Mw3kv9dWa7Trr9Q,5.0)

(hpGnFiTQ6YqtS7o9knm97w,900 Welch Road #105Palo Alto, CA 94304,List(Doctors, Health and Medical, Obstetricians and Gynecologists),hpGnFiTQ6YqtS7o9knm97w,5.0)

# Q2: -

## REVIEW FILE MANPALATION

A = LOAD '/dsb150030/input/review.csv' AS line;

B = FOREACH A GENERATE FLATTEN((tuple(chararray,chararray,chararray,float)) REGEX\_EXTRACT\_ALL(line,'(.\*)\\:\\:(.\*)\\:\\:(.\*)\\:\\:(.\*)')) AS (review\_id,user\_id,business\_id,stars);

C = GROUP B BY business\_id;

D = foreach C generate group as business\_id, AVG(B.stars) as ratings;

## BUSINESS FILE MANIPULATION

X = LOAD '/dsb150030/input/business.csv' AS line;

Y = FOREACH X GENERATE FLATTEN((tuple(chararray,chararray,chararray)) REGEX\_EXTRACT\_ALL(line,'(.\*)\\:\\:(.\*)\\:\\:(.\*)')) AS (business\_id,full\_address,categories);

Z = filter Y by (full\_address matches '.\*(CA).\*' and NOT(full\_address matches '.\*(Palo Alto).\*'));

## JOIN and FILTER

Result = join Z BY business\_id ,D BY business\_id;

DistinctResult = DISTINCT Result ;

orderedResult = ORDER DistinctResult by ratings desc;

answer2 = limit orderedResult 10;

dump answer2 ;

store answer2 into '/home/013/d/ds/dsb150030/answer2.txt';

## MOVE TO LOCAL: -

hdfs dfs -copyToLocal hdfs://cshadoop1/home/013/d/ds/dsb150030/answer2.txt /home/013/d/ds/dsb150030/

## RESULT: -

Vv51G8x0tmJrJUjd687Icw 200 Medical PlazaSte 430WestwoodLos Angeles, CA 90095 List(Doctors, Health and Medical, Obstetricians and Gynecologists) Vv51G8x0tmJrJUjd687Icw 5.0

WBFZ5Mfm0ph\_hEiS9-yh7A 10666 N Torrey Pines RdSorrento ValleyLa Jolla, CA 92037 List(Doctors, Health and Medical) WBFZ5Mfm0ph\_hEiS9-yh7A 5.0

Vw81qCWsEk4bFDJ1ibTKug 893 Marsh#496San Luis Obispo, CA 93401 List(Plumbing, Local Services, Home Services, Appliances & Repair, Contractors) Vw81qCWsEk4bFDJ1ibTKug 5.0

VT-9yjo8dp5K9CyEh6UTkQ 950 E Colorado BlvdSte 105PasadenaPasadena, CA 91106 List(Local Services, Dry Cleaning & Laundry) VT-9yjo8dp5K9CyEh6UTkQ 5.0

VxrdN2ySgx6\_MYT2KKFhqw 2529 Telegraph AveTelegraph AveBerkeley, CA 94704 List(Women's Clothing, Fashion, Shopping, Accessories) VxrdN2ySgx6\_MYT2KKFhqw 5.0

Vipthhye\_sPOBmKLLPiR7Q 920 W. 28th StSouth Los AngelesLos Angeles, CA 90007 List() Vipthhye\_sPOBmKLLPiR7Q 5.0

VfzrKmcuEGWZ7wBz6hFRXg 8843 Villa La Jolla DrLa Jolla, CA 92037 List(Food, Specialty Food, Health Markets) VfzrKmcuEGWZ7wBz6hFRXg 5.0

VYsFC-bwU24kw\_9pxOYllg 779 Higuera StSan Luis Obispo, CA 93401 List(Women's Clothing, Fashion, Shopping) VYsFC-bwU24kw\_9pxOYllg 5.0

W2oVJ3zFYgUStoQbnw799g 1135 Chorro StSan Luis Obispo, CA 93401 List(Leather Goods, Fashion, Shopping, Luggage) W2oVJ3zFYgUStoQbnw799g 5.0

lOaf0SjhoYRCzClqISAmng 940 W Washington BlvdSte BSouth Los AngelesLos Angeles, CA 90015 List(Local Services, Shopping, IT Services & Computer Repair, Office Equipment) lOaf0SjhoYRCzClqISAmng 5.0

# Q3: -

## REVIEW FILE MANPALATION

A = LOAD '/dsb150030/input/review.csv' AS line;

B = FOREACH A GENERATE FLATTEN((tuple(chararray,chararray,chararray,float)) REGEX\_EXTRACT\_ALL(line,'(.\*)\\:\\:(.\*)\\:\\:(.\*)\\:\\:(.\*)')) AS (review\_id,user\_id,business\_id,stars);

## BUSINESS FILE MANIPULATION

X = LOAD '/dsb150030/input/business.csv' AS line;

Y = FOREACH X GENERATE FLATTEN((tuple(chararray,chararray,chararray)) REGEX\_EXTRACT\_ALL(line,'(.\*)\\:\\:(.\*)\\:\\:(.\*)')) AS (business\_id,full\_address,categories);

## COGROUP

grouped = COGROUP Y BY business\_id, B BY business\_id ;

top10 = limit grouped 10;

dump top10;

store top10 into '/home/013/d/ds/dsb150030/answer3.txt';

## MOVE TO LOCAL: -

hdfs dfs -copyToLocal hdfs://cshadoop1/home/013/d/ds/dsb150030/answer3.txt /home/013/d/ds/dsb150030/

## RESULT : -

(--3iH7ezDwTGn5lolFMdhg,{(--3iH7ezDwTGn5lolFMdhg,201 South Estes DriveChapel Hill, NC 27514,List(Arts & Entertainment, Shopping, Arts & Crafts, Art Galleries, Antiques, Event Planning & Services, Cards & Stationery, Flowers & Gifts)),(--3iH7ezDwTGn5lolFMdhg,201 South Estes DriveChapel Hill, NC 27514,List(Arts & Entertainment, Shopping, Arts & Crafts, Art Galleries, Antiques, Event Planning & Services, Cards & Stationery, Flowers & Gifts))},{(dL6wkEQaV2dILUc0IgbVNA,3x8lZ-EoBhg-mw21BRITuQ,--3iH7ezDwTGn5lolFMdhg,3.0),(6\_YbOOpTCmilmDvxvM8ibw,w4xul4H66RB3zXnn9i3FzA,--3iH7ezDwTGn5lolFMdhg,3.0),(VpFzhSAp\_lqJcoNkMD1WhQ,PnvmYnd8V2VUV6mZtZCDsg,--3iH7ezDwTGn5lolFMdhg,5.0),(ROhssA2WRvs-YLh8rMt8Rw,YrugcPqjHGVkrSXpozDowg,--3iH7ezDwTGn5lolFMdhg,4.0),(cGxCjYkVaLzxaToU1Vxzhw,ka7KtME7TQ53RzyNTMeqSw,--3iH7ezDwTGn5lolFMdhg,4.0),(KlsR94XsQqurXmxUkur7GQ,mZAyb8OSugvx6TLjTuZsZA,--3iH7ezDwTGn5lolFMdhg,3.0),(kuj-48E6vfJRmLk5sYRR3g,rz3TD2DfMAqt\_qAVtfr4fw,--3iH7ezDwTGn5lolFMdhg,4.0),(jJNFSwrpK8SHJr8ac1qI5g,XBNtqhc72X57VK8GLNbsGg,--3iH7ezDwTGn5lolFMdhg,3.0),(YMDnMLK5ExaDNbnHRLYlPw,z\_8hSF534l99A9K4Y9Y9Ug,--3iH7ezDwTGn5lolFMdhg,4.0),(xYTJlNNfLMalAFPKLhXGqA,D7ERu96F-7vBF3usfJsLtg,--3iH7ezDwTGn5lolFMdhg,4.0),(mJNBGPwq-X11jeLJTJm-IQ,xhmh67-uRtXXOBqweUU-hQ,--3iH7ezDwTGn5lolFMdhg,5.0)})

(--q0WbTS\_Gl55W3bC4zmSA,{(--q0WbTS\_Gl55W3bC4zmSA,Penn Student Health Services Bldg3535 Market StPowelton VillagePhiladelphia, PA 19104,List(Caribbean, Food Stands, Restaurants)),(--q0WbTS\_Gl55W3bC4zmSA,Penn Student Health Services Bldg3535 Market StPowelton VillagePhiladelphia, PA 19104,List(Caribbean, Food Stands, Restaurants))},{(zOE5NDw-ayJ4-TOPgF68ew,r4\_XcrRt08sADOdIT5ex3A,--q0WbTS\_Gl55W3bC4zmSA,3.0),(fQXqmlkLWSs7LrU4YvDU0Q,j29l0Dyc1CsPqmnZDhw5iA,--q0WbTS\_Gl55W3bC4zmSA,3.0)})

(-0iqnv7MjKrgh7Q7bYRlUQ,{(-0iqnv7MjKrgh7Q7bYRlUQ,1432 Mass AveHarvard SquareCambridge, MA 02138,List(Pizza, Restaurants)),(-0iqnv7MjKrgh7Q7bYRlUQ,1432 Mass AveHarvard SquareCambridge, MA 02138,List(Pizza, Restaurants))},{(Dl8SNuaj7kW6B32ebtOVgQ,9jMU4Ghm2jTUEROAggjZdg,-0iqnv7MjKrgh7Q7bYRlUQ,3.0),(wOry93fdTEu5VxdqcVlGTw,XTdKoDgqkKxNdDA3cf3LYw,-0iqnv7MjKrgh7Q7bYRlUQ,5.0),(3gMuhrtcp45GgpH3j88dvg,E7avuIRg5a1b3OsSL-tEfQ,-0iqnv7MjKrgh7Q7bYRlUQ,4.0),(EpoqestYi6Tz-Zwu-iMAVg,fvNmwPu0RU7Wcr1Z6gFhrQ,-0iqnv7MjKrgh7Q7bYRlUQ,4.0),(YAofaDvc6C3\_LHJ9HLKkAw,6\_W5zpMNsyCGU4a6wKnSmQ,-0iqnv7MjKrgh7Q7bYRlUQ,5.0),(OHc9Navfz3NVfwd71BIVEg,3sD\_zguW9ym11WtpogrpKA,-0iqnv7MjKrgh7Q7bYRlUQ,4.0),(Zdb-Hs9IsAUBuj54i62E\_Q,L59t-Q16xPO1nMBJdF10Cw,-0iqnv7MjKrgh7Q7bYRlUQ,4.0),(6hZTsTk7KTPvFqPwHXiQtQ,FgnLdCE3q0MqIWgnAH3xtw,-0iqnv7MjKrgh7Q7bYRlUQ,3.0),(eV5FepByAG2nM2JHWWr1KQ,MynPsTNuymjjaOPrktJ-Lw,-0iqnv7MjKrgh7Q7bYRlUQ,5.0),(M2bbd3BWuyZu0FBsX\_F6Rg,S3v2L43KNkKPNm\_IcZ3T7Q,-0iqnv7MjKrgh7Q7bYRlUQ,4.0),(70vDn9ChrnhEGvxzDjZfPQ,Z8Q6AZm63tM3eLz8vmdk9w,-0iqnv7MjKrgh7Q7bYRlUQ,4.0),(FBjcEb0Gl8RMmYQy376GrQ,DICLJDdq0HpvOVYR5mB4gA,-0iqnv7MjKrgh7Q7bYRlUQ,3.0),(UelgsrdBuXLlWfhUISep7w,FT391Uy9RWTtGjnBT3GaWg,-0iqnv7MjKrgh7Q7bYRlUQ,5.0),(M1PSAb6YqppNBjE7Wfid2w,-BgA1XTbaPXwf-u2wVldRg,-0iqnv7MjKrgh7Q7bYRlUQ,5.0),(O5fxluv2jfy45\_1T2I2grA,Ko01Bph\_vOdLw0BGvn\_Sew,-0iqnv7MjKrgh7Q7bYRlUQ,4.0),(7S7JQ0xuhdu2cEnAyiC3BA,PrhTTBCqqUe8XyyDAkjibQ,-0iqnv7MjKrgh7Q7bYRlUQ,4.0),(5Ciu7wRGnwQTLEnVCUTbHw,dbVPM79PiB3LbEd2Cgruug,-0iqnv7MjKrgh7Q7bYRlUQ,4.0),(jc6SLXNIVSX\_\_VYVT9\_kKw,SOudN4W5nZ1FJrYmSpy4wg,-0iqnv7MjKrgh7Q7bYRlUQ,5.0),(Y7lkLFOuhEDnLJlkFppybQ,b6koSC5-v8tCggqtjaLWDw,-0iqnv7MjKrgh7Q7bYRlUQ,5.0),(72KBjK1plDHwWYsJswp8Cg,xZAYGYy0TDZhfh9U12gMQw,-0iqnv7MjKrgh7Q7bYRlUQ,4.0),(zzdmx2M0oQJDkR\_5LTaOVg,So-vBe5SOQNKuTz3dIJQ-w,-0iqnv7MjKrgh7Q7bYRlUQ,4.0),(g-WnSN-fbyglvuv7iLlw7w,8VN\_WvKLfO2mLhq\_CcFS4A,-0iqnv7MjKrgh7Q7bYRlUQ,5.0),(8zPnvTV\_tGWasdH8XrlaPA,lipTS\_Mn7OzuBIxT81DnBw,-0iqnv7MjKrgh7Q7bYRlUQ,3.0),(hwhxFLL51WP-sFAkxmAB9Q,NYUxw-2sgmckHYhjaJ71Ug,-0iqnv7MjKrgh7Q7bYRlUQ,5.0),(S5UOddCkFK-WY8F184XURA,vTG0INOo12YOf3VO8k0law,-0iqnv7MjKrgh7Q7bYRlUQ,4.0),(gjv8tPJTq64VF2mxnVqSLg,5\_BUeZJTfCWIPBJQ4FzZhA,-0iqnv7MjKrgh7Q7bYRlUQ,4.0),(sC3GWhOV0xQIqG1HTIf0kw,FtJQXNepCD-MVjNpJDYvlQ,-0iqnv7MjKrgh7Q7bYRlUQ,4.0),(SaHYBQ1gfkOSJWbyDoQqxw,MZdxigKYlasxURDoIUQAww,-0iqnv7MjKrgh7Q7bYRlUQ,1.0),(fkgC9MZqxl9oWe4cXmRsCg,e0IAilTvU4Fu8r9BdbUEbA,-0iqnv7MjKrgh7Q7bYRlUQ,5.0),(dGwJYA5AoJmN9C8oAeIovw,Oz9iH3kGLul1Blpedqmv9w,-0iqnv7MjKrgh7Q7bYRlUQ,1.0),(Us2vNJbLonff1XsHoAJrYg,AsNTonKKhT6IPaJYrGtgYA,-0iqnv7MjKrgh7Q7bYRlUQ,3.0),(OdWyZNi9130GkiRxqA5isA,Bee\_DFRkzrcJ\_UOrcTIUtA,-0iqnv7MjKrgh7Q7bYRlUQ,5.0),(wcxo3CxQOQ5-w8qJzZGeHg,VyzEjq3r5vB4jslmH9le1A,-0iqnv7MjKrgh7Q7bYRlUQ,5.0),(JeIBh7RC3l9hZI7Gv6ZMTw,LvVHUSssykWeQIRVQk\_\_6A,-0iqnv7MjKrgh7Q7bYRlUQ,4.0),(-Ri1ljrAFhOtDbW289XoFw,sxQxbJxveW1l8EYL3NbRdw,-0iqnv7MjKrgh7Q7bYRlUQ,4.0),(r3mT3GXzWOP58H\_p\_LnOJg,3kvDX\_mlAn\_UvUokuS0ihw,-0iqnv7MjKrgh7Q7bYRlUQ,4.0),(RAB8mNXrvhhllxLKRleZmg,CGHocZ1nUt9ottLbDlPwWQ,-0iqnv7MjKrgh7Q7bYRlUQ,4.0),(5ntqdqgu\_LBlC7d7MRDo8g,dOOe5SS3imrr5NnGrmXhOg,-0iqnv7MjKrgh7Q7bYRlUQ,5.0),(BZPujrd\_dpaDwd3h2MfZGQ,GPfRCySHYV1RnMYF-wCx2A,-0iqnv7MjKrgh7Q7bYRlUQ,5.0),(BJCDdX1LxcsyP\_KejINC4w,3R43ydfitOG0B4e\_vuQyfA,-0iqnv7MjKrgh7Q7bYRlUQ,5.0),(pIhThVwrIc34tiox2HW08w,-bCmpdLMmOPG\_w25P287tA,-0iqnv7MjKrgh7Q7bYRlUQ,4.0),(mOk\_rJYdaCNoVIOTFCKVog,Y4Ls2nZ7Jn0aG\_TQZ5q2yw,-0iqnv7MjKrgh7Q7bYRlUQ,5.0),(5HLVW5DlLgfdTJQ6oODO7w,532U4v08MWH7t2S19smYPQ,-0iqnv7MjKrgh7Q7bYRlUQ,4.0),(XvrqwMn9Te3c9myIUF9xJQ,lORKDAmlj8Kq5Jp6I-5SaA,-0iqnv7MjKrgh7Q7bYRlUQ,5.0),(38ckUUCSpqw-QHssWImVkg,ot0MNWuCMuE5KSuqd\_WqEg,-0iqnv7MjKrgh7Q7bYRlUQ,5.0),(Dp1zb-uzOSuzgD7K\_8PV0Q,eWbyza\_XypH-NsDJgyiLjw,-0iqnv7MjKrgh7Q7bYRlUQ,5.0),(5klw28mXgxC\_F2EJqAuU6Q,Pox6gRJ5vm7m9DO4nuU-UA,-0iqnv7MjKrgh7Q7bYRlUQ,4.0),(F9PkASkMZJIyNvOV2uVbIQ,1eTFGszG\_nuIUbN0cHaWxA,-0iqnv7MjKrgh7Q7bYRlUQ,5.0),(0DVfsvKPKzpyq8BQvQRfYA,9VWEWnmUTdY8ygh5\_Wlmpw,-0iqnv7MjKrgh7Q7bYRlUQ,5.0),(SynVnPYaUlrJJw4zrKKANQ,tyfjm\_soRnqeROaZyIyGqw,-0iqnv7MjKrgh7Q7bYRlUQ,5.0),(R52LiOCFRI3JAvXl\_eUmog,nl8gWLDo6U6MjqzbBmE\_9A,-0iqnv7MjKrgh7Q7bYRlUQ,4.0),(qCei2h7-WkobRxf666txTg,qMjWE\_VFKTg0dMIHf3-XDQ,-0iqnv7MjKrgh7Q7bYRlUQ,4.0),(Bgs0OBBfPz2MkfYazKnaAw,uKtpvZIBvthTFFntso1eAQ,-0iqnv7MjKrgh7Q7bYRlUQ,4.0),(KSwFDlmAHkTb-ycnnNUtbQ,opd0ZGDg1xtV2sMwq1Ow9Q,-0iqnv7MjKrgh7Q7bYRlUQ,5.0),(IrUL4oRzMPcnxBKPo7Jy-w,FJ8cKlAk5nKv-4SwxMtC6Q,-0iqnv7MjKrgh7Q7bYRlUQ,4.0),(tSrZbk0r2YyqQ5Kxk-8z-w,igZHqUx\_Oxjo4O41hSNkrA,-0iqnv7MjKrgh7Q7bYRlUQ,2.0),(n4ZWr6VwOEGw7-6c5gjh2Q,KavjV2PGj3AMiGVqoERnXQ,-0iqnv7MjKrgh7Q7bYRlUQ,5.0),(w-2BotynmmkPRyE44DvTUA,IT8aUJwHpHBk-ARk5mLOZw,-0iqnv7MjKrgh7Q7bYRlUQ,5.0),(cE6LC\_xQQKyo3BFjo1k2cA,P7RmAFrs2s4JPvbOMOczjw,-0iqnv7MjKrgh7Q7bYRlUQ,4.0),(V7qVhQKraXDNOVgCOOUGiQ,SpIcCqPFikpHrXDEVfwafg,-0iqnv7MjKrgh7Q7bYRlUQ,4.0),(lY1OqGWgmtvyE3zJUOesqg,vOG9YFFFn\_OMyItk4WEebw,-0iqnv7MjKrgh7Q7bYRlUQ,4.0),(xcBRGD0MYVqSFdRWsG14NA,p\_-d7DXgUOB-ax2-BX1anQ,-0iqnv7MjKrgh7Q7bYRlUQ,3.0),(tqsc2M2\_RMKXKRZcoE6g1w,tRVHa1T94l10tDn0fIedCw,-0iqnv7MjKrgh7Q7bYRlUQ,3.0),(GnharnhLZl89-ebtAaywSg,ARRObgCZXBYGuaSMXWjk3A,-0iqnv7MjKrgh7Q7bYRlUQ,3.0),(iD9c0lPXRkooC7VtT2n5ZQ,seLnMSmKybIEWubhD1aERA,-0iqnv7MjKrgh7Q7bYRlUQ,4.0),(6k-3gAGZ9zxVNKEdjpP\_DQ,DYSo6uOwPJ6jy479MLzf7A,-0iqnv7MjKrgh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Restaurants))},{(Qff4PBAbv6VJG9WB5R5-yA,088SkMN7Hjn2vK2MEUfc3Q,-1K9xLVS8HnG8n0g7Xq7mQ,5.0),(5SQalcQR19nk8JaRAsmc9A,VvS1M-EPGIwmD-qqjwvJJA,-1K9xLVS8HnG8n0g7Xq7mQ,4.0),(-k1pbAdpVm2uFx\_SHNqd2w,biULdQhKWVV-Vv3igIMWyg,-1K9xLVS8HnG8n0g7Xq7mQ,5.0),(qeRosnzysAIUIPI4T2WKXA,er9iW6a7CUHE5bLO4ye5Hw,-1K9xLVS8HnG8n0g7Xq7mQ,3.0),(tKT3ohxuHsIReNCHtDCYFg,3DqeuxNWduWVSSD44d2zPQ,-1K9xLVS8HnG8n0g7Xq7mQ,4.0),(5AOqxbhDP-l9hGV3iUdN7g,g0jhttq8BgiZNbJXwAPDng,-1K9xLVS8HnG8n0g7Xq7mQ,5.0),(\_n-YN-vndlwrh0rGe90V4w,z4HxNRH95H6YsaTMuvbnBg,-1K9xLVS8HnG8n0g7Xq7mQ,4.0),(494aQ5vSe1VLUTZt98sFVg,s3aex-QpU6FU0Ej4PGJyOg,-1K9xLVS8HnG8n0g7Xq7mQ,3.0),(58fKJ6\_QdItyLVknlmU3zA,PqEMzxn\_7OHpqpwr0bXYkA,-1K9xLVS8HnG8n0g7Xq7mQ,4.0),(cgISQEceW24AltOpaCDWzw,CV\_I9BJEHnGtgJV1YOO8ug,-1K9xLVS8HnG8n0g7Xq7mQ,4.0),(kGHLLLznAP0waBUqgmNmkw,zqma43CENEfE2VKXb9lelA,-1K9xLVS8HnG8n0g7Xq7mQ,2.0),(5NMtpaSeDiyyG6GWGorFmA,\_Zo0sIkSpWurzNjVnXiBOg,-1K9xLVS8HnG8n0g7Xq7mQ,5.0),(mzveiU3p0chYutBD91gbxw,Ab-BQEQDxb-JAqDZTaYV3Q,-1K9xLVS8HnG8n0g7Xq7mQ,3.0),(HenIfR8jVqeoBaOGycpWVg,wiCR6Kq2jS2YFoE4lyVoUg,-1K9xLVS8HnG8n0g7Xq7mQ,4.0),(GIlL44eKBVBHgVgo5\_Vh2Q,tDBLa7pBqHI\_GOSZAJBhXQ,-1K9xLVS8HnG8n0g7Xq7mQ,3.0),(om20XYc04bHFHzhgAf9uOQ,fMFUNmmtkzBlYS0Gk\_FVdw,-1K9xLVS8HnG8n0g7Xq7mQ,2.0),(VHJ6uTI2zGsg-IgJ2D1ARw,RWNJrfBf5l6lnoFWqAm5pQ,-1K9xLVS8HnG8n0g7Xq7mQ,5.0),(lxrgEY8RRyRdHHI3CK0-yg,m\_ZofG4UObEMBND2vdyiwg,-1K9xLVS8HnG8n0g7Xq7mQ,5.0),(6cChLAcQb2Olv37UuHZxcA,Mm7yR3DDtIKKZY9vOzFz-w,-1K9xLVS8HnG8n0g7Xq7mQ,3.0),(5kDkjByadVfaxeQbDeCOUA,ylqULmksKDA\_\_qlOIfv0nw,-1K9xLVS8HnG8n0g7Xq7mQ,3.0),(aB\_eSect8PFOZZCKbwww5A,2SCtabMTxctlLgbar3-diA,-1K9xLVS8HnG8n0g7Xq7mQ,4.0),(7EljT\_Y91T\_JpMwWWuuP4Q,ps6qwHMCiIdd5vMoBGLEKw,-1K9xLVS8HnG8n0g7Xq7mQ,5.0),(Dpr4Jq6F-qeavb\_HqPNwwg,PVFekEJidqcH3V55HqhIBg,-1K9xLVS8HnG8n0g7Xq7mQ,4.0),(\_EdBIe0\_1o6-62kM2CRBuw,pEm8zRZ3nQXzufDdXt6UFw,-1K9xLVS8HnG8n0g7Xq7mQ,1.0),(PiaBva2kODRpvB3JqqRkJA,ZUK-FezDQaElC3zsytofUQ,-1K9xLVS8HnG8n0g7Xq7mQ,5.0),(Zidjw-5P0u\_yk19Jfypydg,wM3CIcnrbz4g10Dd-1Jzlw,-1K9xLVS8HnG8n0g7Xq7mQ,4.0),(eZtthghFwmK5jx-mP4-izw,pbQgFiv8Jog1RpDhCEZUbg,-1K9xLVS8HnG8n0g7Xq7mQ,4.0),(9d-sQ2Gt7-YNbuys5AnHSw,IhmBr-yHC8xLjdnoq7O37w,-1K9xLVS8HnG8n0g7Xq7mQ,4.0),(01jlcqHu4zCXGKPhMl2tZg,9Ae1Xmrt60Q8c95JhwFZlg,-1K9xLVS8HnG8n0g7Xq7mQ,5.0),(LsMprriL87SXrWMbaaU7yA,RDukYaUcoZD5RWN9hrw1CA,-1K9xLVS8HnG8n0g7Xq7mQ,5.0),(jC7dlLN-R5IRIEhKze7YTg,z35nd92N-Q9q36bx1OCnOQ,-1K9xLVS8HnG8n0g7Xq7mQ,2.0),(GhsorXfZizKbgRasRX9dYQ,Ix8VBZwtgkZN8N9Ml1Pxfw,-1K9xLVS8HnG8n0g7Xq7mQ,4.0),(384L7xpuDTV\_AdKIsfoSIg,ewGbsafyft4w\_VtrDd\_4\_Q,-1K9xLVS8HnG8n0g7Xq7mQ,1.0),(Z7E7rrsjAsVyW9Qr55L8OA,IcdxwCBX6rNHwlcFJEVVtQ,-1K9xLVS8HnG8n0g7Xq7mQ,2.0),(sX66WMaX6KxYD59ZAdYgWQ,pRjkhKAoUfIWzTUGm9v6XQ,-1K9xLVS8HnG8n0g7Xq7mQ,5.0),(LqToEZQK4ZYfxiN1OnPHlQ,ezJj-pxd6dWJ4C3MT3JTzQ,-1K9xLVS8HnG8n0g7Xq7mQ,5.0),(5CdgJDfCFeL23IZOvJTQtQ,H13WQgccEomyihiI4zX70g,-1K9xLVS8HnG8n0g7Xq7mQ,1.0),(-QgzavGWdYlpRujZy1XTFA,-vdhkY79chhTGXw6m0bcRw,-1K9xLVS8HnG8n0g7Xq7mQ,4.0),(qnFh7iFIFLPBzBL\_Hqzk-w,JauUrzrWq6FE55BwC-b7Aw,-1K9xLVS8HnG8n0g7Xq7mQ,4.0),(qxq9UhlMty8ylzAQESw0Lw,qRFNBzYzK4FluN3C-dnO6w,-1K9xLVS8HnG8n0g7Xq7mQ,4.0),(34OEY7OiiQkcnG1sxB7bfg,pW9LvtC-hZ0PRAOUn7aZ2A,-1K9xLVS8HnG8n0g7Xq7mQ,4.0),(kT25Bvg2TUxU\_35HZdnwGA,EAycMVRlcuoHN1EcTFrg7Q,-1K9xLVS8HnG8n0g7Xq7mQ,5.0),(gziQosWs4R8mrF688cUVlg,fqbNuyEmQiXXvacdl9mqDg,-1K9xLVS8HnG8n0g7Xq7mQ,2.0),(h320OXiWQsod3pBNWoOtOA,VZUHcHoSYtn8mKq31hAM-g,-1K9xLVS8HnG8n0g7Xq7mQ,3.0),(VwysjUjFoVPVoyvkhlZaHQ,eIa4QJXp5ZNmuFORnuPvDA,-1K9xLVS8HnG8n0g7Xq7mQ,3.0),(KoPDV21ci-RR-Z0HFFYIFw,uYqpUIjos0puuar\_\_elBkw,-1K9xLVS8HnG8n0g7Xq7mQ,2.0),(gC8wzJwfpfPG\_xTSx1l3Rg,VFkzf-g8NqJj402sE433kA,-1K9xLVS8HnG8n0g7Xq7mQ,4.0),(Qgh8obsLCIZ1O-RN3ueACw,68LmmPmqrl8nEeaIuk-U9g,-1K9xLVS8HnG8n0g7Xq7mQ,4.0),(CTsUDTyLMdLReVhdaicpIA,OYP5ji4eEemu-EOMebeQ2w,-1K9xLVS8HnG8n0g7Xq7mQ,5.0),(j8B\_VrE-341DN-ZkVRb34g,1LdXqpTv0bcKQVkQB6Lttg,-1K9xLVS8HnG8n0g7Xq7mQ,3.0),(w3POWds-EZ9EpCn-i2Egyg,bFvv4qHsdwTg9Ur2zCztkw,-1K9xLVS8HnG8n0g7Xq7mQ,5.0),(\_CWx6ttmU05L-Sjr0T8NVg,TBMc1CexKzhjRxnSkrb9kQ,-1K9xLVS8HnG8n0g7Xq7mQ,5.0),(8CoxswqzzIdAZF-VA0ekpw,VEj1OuO6QrQMXFhuMZJ8cQ,-1K9xLVS8HnG8n0g7Xq7mQ,4.0),(WKduUgXfDoYjSgkQzrGuZA,SfgUvqE8dkfRH13EjcFB-A,-1K9xLVS8HnG8n0g7Xq7mQ,4.0),(EZPq7tOhn2NyBfpupTykbA,fpHzpFe7JvPB94JhqQ2qZQ,-1K9xLVS8HnG8n0g7Xq7mQ,5.0),(4nsoak0xkVw93TNS4zdbSQ,hGoXpge\_tUOWuEnbww\_aBg,-1K9xLVS8HnG8n0g7Xq7mQ,5.0),(-HcbsojV5FSa4AxqNSceoA,QbcI5G8Qj2X5jV-ncrHnww,-1K9xLVS8HnG8n0g7Xq7mQ,3.0),(HGitYaxgXS2p4airUoRO5Q,irH6e37NowYq4V-m6GYV1g,-1K9xLVS8HnG8n0g7Xq7mQ,4.0),(ZqPaNw2UI\_xnUt4tDdoRiw,kfxH2YSLG7kCoG6HWoB-Cg,-1K9xLVS8HnG8n0g7Xq7mQ,5.0),(wXZiZtK8shKF1ocmRIy9Og,Gw0WuzoMHjjmPJBvBpt\_rQ,-1K9xLVS8HnG8n0g7Xq7mQ,5.0),(ILCB4TSy6szhX3iNcLdIBA,DzUwQFXHEO0ISRp4WLcB0A,-1K9xLVS8HnG8n0g7Xq7mQ,3.0),(q4iUbZKBDu8z4yLWZiXoTw,Luj3s\_MdUI-Og-j2-eQB-Q,-1K9xLVS8HnG8n0g7Xq7mQ,4.0),(pnFErVJc6I52zfzHBhhjSQ,d\_gt7E-ldc5zAZ0TVUnTYw,-1K9xLVS8HnG8n0g7Xq7mQ,4.0),(kIVTpSf0x903tBLt71c19Q,\_0cWueK8TnVQgzDAHYzmqA,-1K9xLVS8HnG8n0g7Xq7mQ,1.0),(Rp4PX74HeTx-8phr1fC1YA,LpnIbrtaWQ5hSU3TorJf0A,-1K9xLVS8HnG8n0g7Xq7mQ,5.0),(c2fIt13hdbIgOzWuilgFEg,9F5wwzbcxr21KUQTGmuWtw,-1K9xLVS8HnG8n0g7Xq7mQ,5.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(-2J-BrHD3noFG0Rnp9g8qA,{(-2J-BrHD3noFG0Rnp9g8qA,121 E Franklin StChapel Hill, NC 27514,List(Shopping, Jewelry)),(-2J-BrHD3noFG0Rnp9g8qA,121 E Franklin StChapel Hill, NC 27514,List(Shopping, Jewelry))},{(5duOojSOhf9LcSVTjbS1JQ,rF8m\_fmJJXKgCUSy\_iiadg,-2J-BrHD3noFG0Rnp9g8qA,4.0),(h8LlkTBVtrwggywtpX\_feQ,63CiyXQLP0ObnEOxpC87qg,-2J-BrHD3noFG0Rnp9g8qA,4.0),(KE7tdM3dMsauvljUH\_Q4Zw,jBXOi3sKs62wh50dv9MHxQ,-2J-BrHD3noFG0Rnp9g8qA,4.0),(M5Xm1bwA4CFNYVixcAplLQ,PV0WD7-Dx83W14mWaWraZw,-2J-BrHD3noFG0Rnp9g8qA,4.0),(zyuO3HUoQAGyp7ZiXfNkpA,NoS9XA3U7d2rTcXPXaVlwg,-2J-BrHD3noFG0Rnp9g8qA,5.0),(fhJV-zJ29\_CxdXiMQgIwJg,hap3kh1KBtruI7Fh8IS14g,-2J-BrHD3noFG0Rnp9g8qA,5.0),(ymOen8YPvcx5E4WJzSAAoQ,3x8lZ-EoBhg-mw21BRITuQ,-2J-BrHD3noFG0Rnp9g8qA,3.0),(iwSMQMw\_T\_\_yLENJ00r\_IA,itXMelaTleEjLIFWCJtnwg,-2J-BrHD3noFG0Rnp9g8qA,4.0),(j3E1eObk7KDUWEP3wTuCMA,i6nzTfZ8TRckJOGgZIpr5Q,-2J-BrHD3noFG0Rnp9g8qA,4.0),(6mK62lUSsKRBS6-ByRSFpA,aC9EmoMwonuhg3FBj1Xw6Q,-2J-BrHD3noFG0Rnp9g8qA,4.0)})

(-2YrXfEi4vuriNgdDq4fFw,{(-2YrXfEi4vuriNgdDq4fFw,1 Bennett StHarvard SquareCambridge, MA 02138,List(Food, Farmers Market)),(-2YrXfEi4vuriNgdDq4fFw,1 Bennett StHarvard SquareCambridge, MA 02138,List(Food, Farmers Market))},{(CxMUEEi8vc3ygDcwBaZpuQ,KOXbmQVmusB02RInNh5qaA,-2YrXfEi4vuriNgdDq4fFw,4.0),(uOBZqne1MjZgPDgQvqFNpw,CtITdFHWadagdOCn0sIJAw,-2YrXfEi4vuriNgdDq4fFw,5.0),(PzIneq157wGXc8c8FpTOmw,tCqYnhAdQhPO3JAAnc09ig,-2YrXfEi4vuriNgdDq4fFw,4.0),(VEBAeDBtFTtCraC9SVS73A,ir689oBNmrJXOspb4yq\_Jg,-2YrXfEi4vuriNgdDq4fFw,4.0),(eMqotB8f9JVetjheAqKmHA,JwV6WkLmj-mTzgya\_E9XPg,-2YrXfEi4vuriNgdDq4fFw,4.0),(mTKFE0FG\_7p\_7SOfstDFyA,HhffhDgUv8hs4yBKzocKOw,-2YrXfEi4vuriNgdDq4fFw,4.0)})

(-2sqq2aR1RnlEbv5s9eo-g,{(-2sqq2aR1RnlEbv5s9eo-g,304 S Main StDowntown Ann ArborAnn Arbor, MI 48104,List(Shopping, Jewelry)),(-2sqq2aR1RnlEbv5s9eo-g,304 S Main StDowntown Ann ArborAnn Arbor, MI 48104,List(Shopping, Jewelry))},{(Y6EaQRqxmW6ZMpD52879jA,AloAQLILUK2HirC64UDFHQ,-2sqq2aR1RnlEbv5s9eo-g,3.0),(qGrBODePnyvvJAVvhDyyHg,INy5FRXhNhQfPz998fc1Ug,-2sqq2aR1RnlEbv5s9eo-g,4.0)})

# Q4: -

## REVIEW FILE MANPALATION

A = LOAD '/dsb150030/input/review.csv' AS line;

B = FOREACH A GENERATE FLATTEN((tuple(chararray,chararray,chararray,float)) REGEX\_EXTRACT\_ALL(line,'(.\*)\\:\\:(.\*)\\:\\:(.\*)\\:\\:(.\*)')) AS (review\_id,user\_id,business\_id,stars);

## BUSINESS FILE MANIPULATION

X = LOAD '/dsb150030/input/business.csv' AS line;

Y = FOREACH X GENERATE FLATTEN((tuple(chararray,chararray,chararray)) REGEX\_EXTRACT\_ALL(line,'(.\*)\\:\\:(.\*)\\:\\:(.\*)')) AS (business\_id,full\_address,categories);

Z = filter Y by (full\_address matches '.\*(Stanford).\*');

## JOIN and FILTER

Result = join Z BY business\_id ,B BY business\_id;

DistinctResult = DISTINCT Result ;

answer = foreach DistinctResult generate (chararray) $4 as user, (chararray) $6 as ratings;

answer4 = limit answer 10;

dump answer4 ;

store answer4 into '/home/013/d/ds/dsb150030/answer4.txt';

## MOVE TO LOCAL

hdfs dfs -copyToLocal hdfs://cshadoop1/home/013/d/ds/dsb150030/answer4.txt /home/013/d/ds/dsb150030/

## RESULT: -

qzbcVuTy\_Ug\_Qej3-u11cQ 5.0

g9imXaXdU9qjYMsCy0KoHA 2.0

06gL9VaAyAl6WoYVu\_nPuA 4.0

RUMwNN5U7RRPsEOmeAdBDQ 5.0

Eva274V0UhvqY4owmBEu9w 4.0

RxaqMFylRmftGzihOQTmfg 5.0

vB8YCXg61Knx81tZ-E180A 3.0

uKprY5zjYtPTya8mYK4N-Q 4.0

BFIaTEKz0kUoo9WZNldPJQ 5.0

cL-AqfiZcGRwkyfxRomGvw 5.0