

Question 1:**File Loading for Business.csv and Review.csv:**

//load business.csv file as a line

A = LOAD './kunal/business.csv' AS line;

// Now convert them into tuple

B= FOREACH A GENERATE FLATTEN((tuple(chararray,chararray,chararray))
REGEX_EXTRACT_ALL(line,'(.*)\\:\\:(.*)\\:\\:(.*)')) AS (busid,add,categ);

// Load review.csv file as a line

C = Load './kunal/review.csv' AS Line;

// Now convert them into tuple

D = FOREACH C GENERATE FLATTEN((tuple(chararray,chararray,chararray,float))
REGEX_EXTRACT_ALL(Line,'(.*)\\:\\:(.*)\\:\\:(.*)\\:\\:(.*)')) AS (reviewid,uid,bid,rating);

//create group based on bid

E = group D by bid;

// find the avg for each bid

F = foreach E generate group as business_id, AVG(D.rating) as avg_rating;

Join Operation:

G = join F by business_id, B by busid;

H= distinct G;

I = filter H by (add matches '.*Palo Alto.*');

// ordering and limit output to 10

J = order I by avg_rating desc;

Final = limit J 10;

Final_result= foreach Final generate(busid, add, categ);

Store Final_result into './kunal/Final1/';

Output:

((TCjOnOepk9KNXIPMH9BLA,855 El Camino RealPalo Alto, CA 94301,List(Food, Coffee & Tea, Cafes, Restaurants),,,,,,,,,))

((T2F7YtQU0KyG53vjlk2fA,795 El Camino RealPalo Alto, CA 94301,List(Dermatologists, Doctors, Health and Medical),,,,,,,,,))

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

((Q0-PK8gX9uDILtCSR6l2Q,805 El Camino RealSte BPalo Alto, CA 94301,List(Doctors, Health and Medical, Internal Medicine),,,,,,,,,))

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

((S506FIQdswKA0anIIQSF_g,Palo Alto, CA 94309,List(Food, Coffee & Tea, Event Planning & Services, Caterers),,,,,,,,,))

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

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

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

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

Question 2:

File Loading for Business.csv and Review.csv:

```
//load business.csv file as a line
```

```
A = LOAD './kunal/business.csv' AS line;
```

```
// Now convert them into tuple
```

```
B= FOREACH A GENERATE FLATTEN((tuple(chararray,chararray,chararray))  
REGEX_EXTRACT_ALL(line,'(.*)\\:\\\\:(.*)\\:\\\\:(.*)') AS (busid,add,categ);
```

```
// Load review.csv file as a line
```

```
C = Load './kunal/review.csv' AS Line;
```

```
// Now convert them into tuple
```

```
D = FOREACH C GENERATE FLATTEN((tuple(chararray,chararray,chararray,float))  
REGEX_EXTRACT_ALL(Line,'(.*)\\:\\\\:(.*)\\:\\\\:(.*)\\:\\\\:(.*)') AS (reviewid,uid,bid,rating);
```

```
//create group based on bid
```

```
E = group D by bid;
```

```
// find the avg for each bid
```

```
F = foreach E generate group as business_id, AVG(D.rating) as avg_rating;
```

Join Operation:

G = join F by business_id, B by busid;

H= distinct G;

I = filter H by (add matches '.*CA.*') AND NOT(add matches '.*Palo Alto.*');

// ordering and limit output to 10

J = order I by avg_rating desc;

Final = limit J 10;

Final_result= foreach Final generate(busid, add, categ);

Store Final_result into './kunal/Final2/';

OUTPUT:

((Vv51G8x0tmJrJUjd687lcw,200 Medical PlazaSte 430WestwoodLos Angeles, CA 90095,List(Doctors, Health and Medical, Obstetricians and Gynecologists),,,,,,,,,))

((WBFZ5Mfm0ph_hEiS9-yh7A,10666 N Torrey Pines RdSorrento ValleyLa Jolla, CA 92037,List(Doctors, Health and Medical),,,,,,,,,))

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

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

((VxrdN2ySgx6_MYT2KKFhqw,2529 Telegraph AveTelegraph AveBerkeley, CA 94704,List(Women's Clothing, Fashion, Shopping, Accessories),,,,,,,,,))

((Vipthhye_sPOBmKLLPiR7Q,920 W. 28th StSouth Los AngelesLos Angeles, CA 90007,List(),,,,,,,,,))

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

```
((VYsFC-bwU24kw_9pxOYllg,779 Higuera StSan Luis Obispo, CA 93401,List(Women's Clothing, Fashion, Shopping),,,,,,,,,))
```

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

```
((IOaf0SjhoYRCzClqISAmng,940 W Washington BlvdSte BSouth Los AngelesLos Angeles, CA 90015,List(Local Services, Shopping, IT Services & Computer Repair, Office Equipment),,,,,,,,,))
```

Question 3:

File Loading for Business.csv and Review.csv:

```
//load business.csv file as a line
```

```
A = LOAD './kunal/business.csv' AS line;
```

```
// Now convert them into tuple
```

```
B= FOREACH A GENERATE FLATTEN((tuple(chararray,chararray,chararray))  
REGEX_EXTRACT_ALL(line,'(.*)\\:\\\\:(.*)\\:\\\\:(.*)')) AS (busid,add,categ);
```

```
// Load review.csv file as a line
```

```
C = Load './kunal/review.csv' AS Line;
```

```
// Now convert them into tuple
```

```
D = FOREACH C GENERATE FLATTEN((tuple(chararray,chararray,chararray,float))  
REGEX_EXTRACT_ALL(Line,'(.*)\\:\\\\:(.*)\\:\\\\:(.*)\\:\\\\:(.*)')) AS (reviewid,uid,bid,rating);
```

```
//use co-group command
```

```
A3= cogroup B by busid, D by bid;
```

```
Final3 = limit A3 5
```

```
//Store result into input file
```

```
Store Final3 into './kunal/Final3'
```

Dump Final3

Output:

(--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_YbOOPTCmilMDvxxM8ibw,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),(YMDnMLK5ExaDNbnHRLYIPw,z_8hSF534I99A9K4Y9Y9Ug,--3iH7ezDwTGn5lolFMdhg,4.0),(xYTJINNfLMaAFPKLhXGqA,D7ERu96F-7vBF3usfJsLtg,--3iH7ezDwTGn5lolFMdhg,4.0),(mJNBGPwq-X11jeLJTJm-lQ,xhmf67-uRtXXOBqweUU-hQ,--3iH7ezDwTGn5lolFMdhg,5.0))}

(--q0WbTS_GI55W3bC4zmSA,{(--q0WbTS_GI55W3bC4zmSA,Penn Student Health Services Bldg3535 Market StPowelton VillagePhiladelphia, PA 19104,List(Caribbean, Food Stands, Restaurants),,,,,,,,,),(--q0WbTS_GI55W3bC4zmSA,Penn Student Health Services Bldg3535 Market StPowelton VillagePhiladelphia, PA 19104,List(Caribbean, Food Stands, Restaurants),,,,,,,,,)},{{zOE5NDw-ayJ4-TOPgF68ew,r4_XcrRt08sADOdIT5ex3A,--q0WbTS_GI55W3bC4zmSA,3.0),(fQXqmlkLWSs7LrU4YvDU0Q,j29I0Dyc1CsPqmnZDhw5iA,--q0WbTS_GI55W3bC4zmSA,3.0))}

(-0iqnv7MjKrg7Q7bYRIUQ,{(-0iqnv7MjKrg7Q7bYRIUQ,1432 Mass AveHarvard SquareCambridge, MA 02138,List(Pizza, Restaurants),,,,,,,,,),(-0iqnv7MjKrg7Q7bYRIUQ,1432 Mass AveHarvard SquareCambridge, MA 02138,List(Pizza, Restaurants),,,,,,,,,)},{{DI8SNuaj7kW6B32ebtOVgQ,9jMU4Ghm2jTUEROAggjZdg,-0iqnv7MjKrg7Q7bYRIUQ,3.0),(wOry93fdTEu5VxdqcVIGTw,XTdKoDgqkKxNdDA3cf3LYw,-0iqnv7MjKrg7Q7bYRIUQ,5.0),(3gMuhrtcp45GgpH3j88dvg,E7avulRg5a1b3OsSL-tEfQ,-0iqnv7MjKrg7Q7bYRIUQ,4.0),(EpoquestYi6Tz-Zwu-iMAVg,fvNmwpU0RU7Wcr1Z6gFhrQ,-0iqnv7MjKrg7Q7bYRIUQ,4.0),(YAofaDvc6C3_LHJ9HLKkAw,6_W5zpMNsYCGU4a6wKnSmQ,-

Oiqnv7MjKrgH7Q7bYRIUQ,5.0),(OHc9Navfz3NVfwd71BIVeg,3sD_zguW9ym11WtpogrpKA,-
Oiqnv7MjKrgH7Q7bYRIUQ,4.0),(Zdb-Hs9IsAUBuj54i62E_Q,L59t-Q16xPO1nMBJdF10Cw,-
Oiqnv7MjKrgH7Q7bYRIUQ,4.0),(6hZTsTk7KTPvFqPwHXiQtQ,FgnLdCE3q0MqIWgnAH3xtw,-
Oiqnv7MjKrgH7Q7bYRIUQ,3.0),(eV5FepByAG2nM2JHWWr1KQ,MynPsTNuymjjaOPrktJ-Lw,-
Oiqnv7MjKrgH7Q7bYRIUQ,5.0),(M2bbd3BWuyZu0FBsX_F6Rg,S3v2L43KNkKPNm_lcZ3T7Q,-
Oiqnv7MjKrgH7Q7bYRIUQ,4.0),(70vDn9ChrnHEGvxzDjZfPQ,Z8Q6AZm63tM3eLz8vmdk9w,-
Oiqnv7MjKrgH7Q7bYRIUQ,4.0),(FBjcEb0GI8RMmYQy376GrQ,DICLDdq0HpvOVYR5mB4gA,-
Oiqnv7MjKrgH7Q7bYRIUQ,3.0),(UelgsrdBuXLlWfhUISep7w,FT391Uy9RWtTgJnBT3GaWg,-
Oiqnv7MjKrgH7Q7bYRIUQ,5.0),(M1PSAb6YqppNBjE7Wfid2w,-BgA1XTbaPXwf-u2wVldRg,-
Oiqnv7MjKrgH7Q7bYRIUQ,5.0),(O5fxluV2jfy45_1T2I2grA,Ko01Bph_vOdLw0BGvn_Sew,-
Oiqnv7MjKrgH7Q7bYRIUQ,4.0),(7S7JQ0xuhdu2cEnAyiC3BA,PrhTTBCqqUe8XyyDAkjbQ,-
Oiqnv7MjKrgH7Q7bYRIUQ,4.0),(5Ciu7wRGnwQTLEnVCUTbHw,dbVPM79PiB3LbEd2Cgruug,-
Oiqnv7MjKrgH7Q7bYRIUQ,4.0),(jc6SLXNIVSX__VYVT9_kKw,SOudN4W5nZ1FJrYmSpy4wg,-
Oiqnv7MjKrgH7Q7bYRIUQ,5.0),(Y7IkLFOuhEDnLlKfppybQ,b6koSC5-v8tCggqtjaLWDw,-
Oiqnv7MjKrgH7Q7bYRIUQ,5.0),(72KBjK1plDHwWYsJswp8Cg,xZAYGYy0TDZhf9U12gMQw,-
Oiqnv7MjKrgH7Q7bYRIUQ,4.0),(zzdmx2M0oQJDkR_5LTaOVg,So-vBe5SOQNKuTz3dIJQ-w,-
Oiqnv7MjKrgH7Q7bYRIUQ,4.0),(g-WnSN-fbyglvuv7iLlw7w,8VN_WvKLfO2mLhq_CcFS4A,-
Oiqnv7MjKrgH7Q7bYRIUQ,5.0),(8zPnvTV_tGWasdH8XrlaPA,lipTS_Mn7OzuBlxT81DnBw,-
Oiqnv7MjKrgH7Q7bYRIUQ,3.0),(hwhxFLl51WP-sFAkxmAB9Q,NYUxw-2sgmckHYhjaJ71Ug,-
Oiqnv7MjKrgH7Q7bYRIUQ,5.0),(S5UOddCkFK-WY8F184XURA,vTG0INOo12YO3VO8k0law,-
Oiqnv7MjKrgH7Q7bYRIUQ,4.0),(gJv8tPJtq64VF2mxnVqSLg,5_BUEZJTfCWIPBJQ4FzZhA,-
Oiqnv7MjKrgH7Q7bYRIUQ,4.0),(sC3GWhOV0xQlqG1HTIf0kw,FtJQXNepCD-MVjNpJDYvIQ,-
Oiqnv7MjKrgH7Q7bYRIUQ,4.0),(SaHYBQ1gfkOSJWbyDoQqXw,MZdxigKYlasXURDoIUQAww,-
Oiqnv7MjKrgH7Q7bYRIUQ,1.0),(fkgC9MZqxl9oWe4cXmRsCg,e0IAilTvU4Fu8r9BdbUEbA,-
Oiqnv7MjKrgH7Q7bYRIUQ,5.0),(dGwJYA5AoJmN9C8oAelovw,Oz9iH3kGLu1Blpedqmv9w,-
Oiqnv7MjKrgH7Q7bYRIUQ,1.0),(Us2vNjblonff1XsHoAJrYg,AsNTonKKhT6IPaJYrGtgYA,-
Oiqnv7MjKrgH7Q7bYRIUQ,3.0),(OdWyZNI9130GkiRxqA5isA,Bee_DFRkzrcJ_UOrcTIUtA,-
Oiqnv7MjKrgH7Q7bYRIUQ,5.0),(wcxo3CxQOQ5-w8qJzZGeHg,VyzEjq3r5vB4jslmH9le1A,-
Oiqnv7MjKrgH7Q7bYRIUQ,5.0),(JeIBh7RC3I9hZl7Gv6ZMTw,LvVHUSssykWeQIRVQk__6A,-
Oiqnv7MjKrgH7Q7bYRIUQ,4.0),(-Ri1ljrAFhOtDbW289XoFw,sxQxbJxveW1l8EYL3NbRdw,-
Oiqnv7MjKrgH7Q7bYRIUQ,4.0),(r3mT3GXzWOP58H_p_LnOJg,3kvDX_mIAAn_UvUokuS0ihw,-
Oiqnv7MjKrgH7Q7bYRIUQ,4.0),(RAB8mNXrvhhlxLKRleZmg,CGHocZ1nUt9ottLbDIPwWQ,-
Oiqnv7MjKrgH7Q7bYRIUQ,4.0),(5ntqdqgu_LBIC7d7MRDo8g,dOOe5SS3imrr5NnGrmXhOg,-
Oiqnv7MjKrgH7Q7bYRIUQ,5.0),(BZPujrd_dpaDwd3h2MfZGQ,GPfRCySHYV1RnMYF-wCx2A,-
Oiqnv7MjKrgH7Q7bYRIUQ,5.0),(BJCDdX1LxcsyP_KejINC4w,3R43ydfitOG0B4e_vuQyfa,-
Oiqnv7MjKrgH7Q7bYRIUQ,5.0),(plhThVwrlc34tiox2HW08w,-bCmpdLMmOPG_w25P287tA,-
Oiqnv7MjKrgH7Q7bYRIUQ,4.0),(mOk_rJYdaCNoVIOTFCKVog,Y4Ls2nZ7Jn0aG_TQZ5q2yw,-
Oiqnv7MjKrgH7Q7bYRIUQ,5.0),(5HLVW5DlLgfdTJQ6oODO7w,532U4v08MWH7t2S19smYPQ,-
Oiqnv7MjKrgH7Q7bYRIUQ,4.0),(XvrqwMn9Te3c9mylUF9xJQ,lORKDAmlj8Kq5Jp6l-5SaA,-
Oiqnv7MjKrgH7Q7bYRIUQ,5.0),(38ckUUCSpqw-QHssWlMvkg,ot0MNMWuCMuE5KSuqd_WqEg,-
Oiqnv7MjKrgH7Q7bYRIUQ,5.0),(Dp1zb-uzOSuzgD7K_8PV0Q,eWbyza_XypH-NsDJgyilJw,-
Oiqnv7MjKrgH7Q7bYRIUQ,5.0),(5klw28mXgxC_F2EJqAuU6Q,Pox6gRJ5vm7m9D04nuU-UA,-
Oiqnv7MjKrgH7Q7bYRIUQ,4.0),(F9PkASKMZJlyNvOV2uVbIQ,1eTFGsZG_nuUbn0cHaWxA,-
Oiqnv7MjKrgH7Q7bYRIUQ,5.0),(ODVfsvPKKzpyq8BQvQRfYA,9VWEWnmUTdY8ygh5_Wlmpw,-

Oiqnv7MjKrgH7Q7bYRIUQ,5.0),(SynVnPYaUlRJJw4zrKKANQ,tyfjm_soRnqeROaZylyGqw,-
Oiqnv7MjKrgH7Q7bYRIUQ,5.0),(R52LiOCFRl3JAvXl_eUmog,nl8gWLD06U6MjqzbBmE_9A,-
Oiqnv7MjKrgH7Q7bYRIUQ,4.0),(qCeI2h7-WkobRxf666txTg,qMjWE_VFKTg0dMIHf3-XDQ,-
Oiqnv7MjKrgH7Q7bYRIUQ,4.0),(Bgs00BBfPz2MkfYazKnaAw,uKtpvZlBvthTFFntso1eAQ,-
Oiqnv7MjKrgH7Q7bYRIUQ,4.0),(KS wFDImAHkTb-ycnnNUtbQ,opd0ZGDg1xtV2sMwq10w9Q,-
Oiqnv7MjKrgH7Q7bYRIUQ,5.0),(IrUL4oRzMPcnxBKPo7Jy-w,FJ8cKlAk5nKv-4SwxMtC6Q,-
Oiqnv7MjKrgH7Q7bYRIUQ,4.0),(tSrZbk0r2YyqQ5Kxk-8z-w,igZHqUx_Oxjo4O41hSNkrA,-
Oiqnv7MjKrgH7Q7bYRIUQ,2.0),(n4ZW6VwOEGw7-6c5gh2Q,KavjV2PGj3AMiGVqoERnXQ,-
Oiqnv7MjKrgH7Q7bYRIUQ,5.0),(w-2BotynmmkPRyE44DvTUA,IT8aUJwHpHBk-ARk5mLOZw,-
Oiqnv7MjKrgH7Q7bYRIUQ,5.0),(cE6LC_xQQKyo3BFjo1k2cA,P7RmAFrs2s4JPvBOMOcZjw,-
Oiqnv7MjKrgH7Q7bYRIUQ,4.0),(V7qVhQKraXDN0VgCOOUgiQ,SpIcCqPFikpHrXDEVfwaFg,-
Oiqnv7MjKrgH7Q7bYRIUQ,4.0),(lY10qGWgmtvyE3zJUOesqg,vOG9YFFFn_OMyltk4WEebw,-
Oiqnv7MjKrgH7Q7bYRIUQ,4.0),(xcBRGD0MYVqSFdRWsG14NA,p_-d7DXgUOB-ax2-BX1anQ,-
Oiqnv7MjKrgH7Q7bYRIUQ,3.0),(tqsc2M2_RMkXKRZcoE6g1w,tRVHa1T94l10tDn0fledCw,-
Oiqnv7MjKrgH7Q7bYRIUQ,3.0),(GnharnhLZl89-ebtAaywSg,ARRObgCZXBYGuaSMXWjk3A,-
Oiqnv7MjKrgH7Q7bYRIUQ,3.0),(iD9c0lPXRkooC7VtT2n5ZQ,seLnMSmKyblEWubhD1aERA,-
Oiqnv7MjKrgH7Q7bYRIUQ,4.0),(6k-3gAGZ9zxVNKEdjP_DQ,DYSo6uOwPJ6jy479MLzf7A,-
Oiqnv7MjKrgH7Q7bYRIUQ,5.0),(AVBgGRs6z2Va1272HlAPtQ,xdWcl_KubHh_66lM98Us7A,-
Oiqnv7MjKrgH7Q7bYRIUQ,5.0),(M8y3XaezditnsSbPrQP-5g,zEiVwjaZCw_0KAQ8DXx13w,-
Oiqnv7MjKrgH7Q7bYRIUQ,5.0),(r2GVPSUTlKi5qGy9c_wc_Q,LUoavFqt7aAR6ZRHTnOhYA,-
Oiqnv7MjKrgH7Q7bYRIUQ,5.0),(tiaKJUX06udSD_Ob1DR5kQ,REgG0-N-EOfLJi4WenOw,-
Oiqnv7MjKrgH7Q7bYRIUQ,5.0),(CpoFUMpjnUG6LWVWq10KHQ,Yq7nhtUwy-gH1t9t0wVDWA,-
Oiqnv7MjKrgH7Q7bYRIUQ,4.0),(nUqxU1hP7T6XioAYPB0kTw,KjopnSILst7jkpARPhgD1g,-
Oiqnv7MjKrgH7Q7bYRIUQ,5.0),(XamYv7WgWVCIE565pWLhjQ,HNReGVpMIKSpOzuZXyP4Jw,-
Oiqnv7MjKrgH7Q7bYRIUQ,4.0),(kKN77xypbLf79zpX4vVb2w,ZocRbdNwtt5jFftST-UCWw,-
Oiqnv7MjKrgH7Q7bYRIUQ,1.0),(13dMY41YXFoHsj76RB4r4w,lKA8cX-s0nliE0QmclF5Dg,-
Oiqnv7MjKrgH7Q7bYRIUQ,5.0),(62bRkHO-PO3bORrALJW4ow,rQwUEocszngle1bAdDHTZA,-
Oiqnv7MjKrgH7Q7bYRIUQ,5.0),(xRrig8oEhq16oLoQryE37Q,zjW7lG6zQBEBWiHTcn1USg,-
Oiqnv7MjKrgH7Q7bYRIUQ,2.0),(cFz7n5aeSOvZ70AcTmldMA,8WAUv_LvOEVLdVnXl9Jj1A,-
Oiqnv7MjKrgH7Q7bYRIUQ,5.0),(ov2EuPGnXIC6gHHtO6HDFw,pAK-Fm18c_epq-Hsqmc6Pw,-
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```

Question 4:

File Loading for Business.csv and Review.csv:

//load business.csv file as a line

```
A = LOAD './kunal/business.csv' AS line;
```

// Now convert them into tuple

```
B= FOREACH A GENERATE FLATTEN((tuple(chararray,chararray,chararray))  
REGEX_EXTRACT_ALL(line,'(.*)\\:\\\\:(.*)\\:\\\\:(.*)')) AS (busid,add,categ);
```

// Load review.csv file as a line

```
C = Load './kunal/review.csv' AS Line;
```

// Now convert them into tuple

```
D = FOREACH C GENERATE FLATTEN((tuple(chararray,chararray,chararray,float))  
REGEX_EXTRACT_ALL(Line,'(.*)\\:\\\\:(.*)\\:\\\\:(.*)\\:\\\\:(.*)')) AS (reviewid,uid,bid,rating);
```

// Filter file based on matches with Stanford

```
E = filter B by (add matches '.*Stanford.*');
```

//perform join operation

```
G = join E by busid, D by bid;
```

//Select Distinct operation

```
H = distinct G;
```

//Select top 10 results:

I = limit H 10;

//store final result:

Final4 = foreach I generate(uid, rating);

Store Final4 into '.kunal/Final4';

Dump Final4;

OUTPUT:

```
((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))  
((BFlaTEKz0kUoo9WZNldPJQ,5.0))  
((cL-AqfiZcGRwkyfxRomGvw,5.0))
```