

Lab 7

Question 1

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1/1 + [ ] [ ] [ ]
Tilix: otzi@cis106: ~

1: otzi@cis106: ~
otzi@cis106:~$ cat ~/Documents/Csv/cereal.csv
name;mfr:type;calories;protein;fat;sodium;fiber;carbo;sugars;potass;vitamins;shelf;weight;cup;rating
String;Categorical;Categorical;Int;Int;Int;Int;Float;Float;Int;Int;Int;Int;Float;Float;Float
100% Bran;N;C;70;4;1;130;10;5;6;280;25;3;1;0.33;68.402973
100% Natural Bran;Q;C;120;3;5;15;2;8;8;135;0;3;1;1;33.983679
All-Bran;K;C;70;4;1;260;9;7;5;320;25;3;1;0.33;59.425505
All-Bran with Extra Fiber;K;C;50;4;0;140;14;8;0;330;25;3;1;0.5;93.704912
Almond Delight;R;C;110;2;2;200;1;14;8;-1;25;3;1;0.75;34.384843
Apple Cinnamon Cheerios;G;C;110;2;2;180;1.5;10.5;10;70;25;1;1;0.75;29.509541
Apple Jacks;K;C;110;2;0;125;1;11;14;30;25;2;1;1;33.174094

2: otzi@cis106: ~
otzi@cis106:~$ cat -nv ~/Documents/Csv/cereal.csv
1 name;mfr:type;calories;protein;fat;sodium;fiber;carbo;sugars;potass;vitamins;shelf;weight;cup;rating
2 String;Categorical;Categorical;Int;Int;Int;Int;Float;Float;Int;Int;Int;Int;Float;Float;Float
3 100% Bran;N;C;70;4;1;130;10;5;6;280;25;3;1;0.33;68.402973^M$
4 100% Natural Bran;Q;C;120;3;5;15;2;8;8;135;0;3;1;1;33.983679^M$
5 All-Bran;K;C;70;4;1;260;9;7;5;320;25;3;1;0.33;59.425505^M$
6 All-Bran with Extra Fiber;K;C;50;4;0;140;14;8;0;330;25;3;1;0.5;93.704912^M$
7 Almond Delight;R;C;110;2;2;200;1;14;8;-1;25;3;1;0.75;34.384843^M$
8 Apple Cinnamon Cheerios;G;C;110;2;2;180;1.5;10.5;10;70;25;1;1;0.75;29.509541^M$
9 Apple Jacks;K;C;110;2;0;125;1;11;14;30;25;2;1;1;33.174094^M$
10 Basic 4;G;C;130;3;2;210;2;18;8;100;25;3;1;33.075;37.038562^M$
11 Bran Chex;R;C;90;2;1;200;4;15;6;125;25;1;1;0.67;49.120253^M$
12 Bran Flakes;P;C;90;3;0;210;5;13;5;190;25;3;1;0.67;53.313813^M$

3: otzi@cis106: ~
otzi@cis106:~$ tac ~/Documents/Csv/cereal.csv
Wheaties Honey Gold;G;C;110;2;1;200;1;16;8;60;25;1;1;0.75;36.187559
Wheaties;G;C;100;3;1;200;3;17;3;110;25;1;1;1;51.592193
Wheat Chex;R;C;100;3;1;230;3;17;3;115;25;1;1;0.67;49.787445
Trix;G;C;110;1;1;140;0;13;12;25;25;2;1;1;27.753301
Triples;G;C;110;2;1;250;0;21;3;60;25;3;1;0.75;39.106174
Total Whole Grain;G;C;100;3;1;200;3;16;3;110;100;3;1;1;46.658844
Total Raisin Bran;G;C;140;3;1;190;4;15;14;230;100;3;1.5;1;28.592785
Total Corn Flakes;G;C;110;2;1;200;0;21;3;35;100;3;1;1;38.839746
Strawberry Fruit Wheats;N;C;90;2;0;15;3;15;5;90;25;2;1;1;59.363993

4: otzi@cis106: ~
otzi@cis106:~$ head -n2 ~/Documents/Csv/cereal.csv
name;mfr:type;calories;protein;fat;sodium;fiber;carbo;sugars;potass;vitamins;shelf;weight;cup;rating
String;Categorical;Categorical;Int;Int;Int;Int;Float;Float;Int;Int;Int;Int;Float;Float;Float
otzi@cis106:~$ tail -n 2 ~/Documents/Csv/cereal.csv
Wheaties Honey Gold;G;C;110;2;1;200;1;16;8;60;25;1;1;0.75;36.187559
otzi@cis106:~$

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Question 2

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1/1 + [ ] [ ] [ ]
Tilix: otzi@cis106: ~

1: otzi@cis106: ~/Documents/Csv
otzi@cis106:~/Documents/Csv$ cut -d";" -f1 cars.csv
Car
STRING
Chevrolet Chevelle Malibu
Buick Skylark 320
Plymouth Satellite
AMC Rebel SST
Ford Torino
Ford Galaxie 500

2: otzi@cis106: ~/Documents/Csv
otzi@cis106:~/Documents/Csv$ cut -d";" -f3 cars.csv
Car;Cylinders
STRING;INT
Chevrolet Chevelle Malibu;8
Buick Skylark 320;8
Plymouth Satellite;8
AMC Rebel SST;8
Ford Torino;8
Ford Galaxie 500;8
Chevrolet Toronado;8

3: otzi@cis106: ~/Documents/Csv
otzi@cis106:~/Documents/Csv$ cut -d";" -f1,3 --output-delimiter=" = " cars.csv
Car = Cylinders
STRING = INT
Chevrolet Chevelle Malibu = 8
Buick Skylark 320 = 8
Plymouth Satellite = 8
AMC Rebel SST = 8
Ford Torino = 8
Ford Galaxie 500 = 8

4: otzi@cis106: ~/Documents/Csv
otzi@cis106:~/Documents/Csv$ sort cars.csv
AMC Ambassador Brougham;13.0;8;360.0;175.0;3821.;11.0;73;US
AMC Ambassador DPL;15.0;8;390.0;190.0;3850.;8.5;70;US
AMC Ambassador SST;17.0;8;304.0;150.0;3672.;11.5;72;US
AMC Concord;19.4;6;232.0;90.00;3210.;17.2;78;US
AMC Concord;24.3;4;151.0;90.00;3003.;20.1;80;US
AMC Concord d/L;18.1;6;258.0;120.0;3410.;15.1;78;US
AMC Concord DL;23.0;4;151.0;90.00;3035.;20.5;82;US
AMC Concord DL 6:20.2;6;232.0;90.00;3265.;18.2;79;US

5: otzi@cis106: ~
otzi@cis106:~$ sort -t";" -k4 -n ~/Documents/Csv/cereal.csv
name;mfr:type;calories;protein;fat;sodium;fiber;carbo;sugars;potass;vitamins;shelf;weight;cup;rating
String;Categorical;Categorical;Int;Int;Int;Int;Float;Float;Int;Int;Int;Int;Float;Float;Float
Puffed Rice;Q;C;50;1;0;0;0;13;0;15;0;3;0.5;1;60.756112
Puffed Wheat;Q;C;50;2;0;0;1;10;0;50;0;3;0.5;1;63.005645
100% Bran;N;C;70;4;1;130;10;5;6;280;25;3;1;0.33;68.402973
All-Bran;K;C;70;4;1;260;9;7;5;320;25;3;1;0.33;59.425505
Shredded Wheat;K;C;90;3;0;210;5;13;5;190;25;3;1;0.67;53.313813

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Question 3

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1/1 + [ ] [ ]
Tilix: otzi@cis106: ~/Documents/Books

2: otzi@cis106: ~/Documents/Books
otzi@cis106:~/Documents/Books$ grep -ic "war" war-and-peace.txt
1255
otzi@cis106:~/Documents/Books$ grep -iw "war" war-and-peace.txt
The Project Gutenberg eBook of War and Peace, by Leo Tolstoy
Title: War and Peace
*** START OF THE PROJECT GUTENBERG EBOOK WAR AND PEACE ***
WAR AND PEACE

3: otzi@cis106: ~/Documents/Books
otzi@cis106:~/Documents/Books$ grep -i "war" war-and-peace.txt
The Project Gutenberg eBook of War and Peace, by Leo Tolstoy
Title: War and Peace
*** START OF THE PROJECT GUTENBERG EBOOK WAR AND PEACE ***
WAR AND PEACE
Buonapartes. But I warn you, if you don't tell me that this means war,
things, but Austria never has wished, and does not wish, for war. She

4: otzi@cis106: ~/Documents/Books
otzi@cis106:~/Documents/Books$ grep -iw "love" *.txt
bible.txt:Genesis 27:4 And make me savory meat, such as I love, and bring
it to me, that I may eat; that my soul may bless thee before I die.
bible.txt:Genesis 29:20 And Jacob served seven years for Rachel; and they s
eemed unto him but a few days, for the love he had to her.
bible.txt:Genesis 29:32 And Leah conceived, and bare a son, and she called
his name Reuben: for she said, Surely the Lord hath looked upon my afflicti
on:
5: otzi@cis106: ~/Documents/Books
otzi@cis106:~/Documents/Books$ grep -iw "love" *.txt
bible.txt:Genesis 27:4 And make me savory meat, such as I love, and bring
it to me, that I may eat; that my soul may bless thee before I die.
bible.txt:Genesis 29:20 And Jacob served seven years for Rachel; and they s
eemed unto him but a few days, for the love he had to her.
bible.txt:Genesis 29:32 And Leah conceived, and bare a son, and she called

6: otzi@cis106: ~/Documents/Books
otzi@cis106:~/Documents/Books$ grep -o '\b[a-zA-Z]*a[a-zA-Z]*a[a-zA-Z]*\b'
dracula.txt
away
Dracula
language

7: otzi@cis106: ~/Documents/Books
otzi@cis106:~/Documents/Books$ grep -in "^peace" war-and-peace.txt
5542:peace. The old man was beside himself: moved the chair on which he was
20046:peace."
26471:peace." But however much they left her in peace she could not now be
33900:peace so long as a single armed enemy remained on Russian soil and to
ld
34397:peace with you. As for the Swedes—it is their fate to be governed by
---
8: otzi@cis106: ~/Documents/Books
otzi@cis106:~/Documents/Books$ grep -in "^The" war-and-peace.txt
916:The noblest role on earth, and he is so virtuous and noble that God wil
l
957:the baron.
972:The prince was silent and looked indifferent. But, with the womanly and

9: otzi@cis106: ~/Documents/Books
otzi@cis106:~/Documents/Books$ grep -o '\b[a-zA-Z]*a[a-zA-Z]*a[a-zA-Z]*\b'
war-and-peace.txt:defect in this electronic work within 90 days of receivin
g it, you can
war-and-peace.txt:to date contact information can be found at the Foundatio
n's website
otzi@cis106:~/Documents/Books$ grep -E '\b[aeiou][a-zA-Z]{2}\b' *.txt

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