Lab 7

Question 1

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\oplus
                                                                     Q | ≡
                                 reaper@cis106: ~/Documents/Csv
reaper@cis106:~/Documents$ cd Csv/
reaper@cis106:~/Documents/Csv$ ls
cars.csv cereal.csv contacts.csv country.csv
                                                     film.csv
reaper@cis106:~/Documents/Csv$ cat cereal.csv
name;mfr;type;calories;protein;fat;sodium;fiber;carbo;sugars;potass;vitamins;s
helf;weight;cups;rating
String;Categorical;Categorical;Int;Int;Int;Int;Float;Float;Int;Int;Int;Int;Flo
at:Float:Float
100% Natural Bran; 0; C; 120; 3; 5; 15; 2; 8; 8; 135; 0; 3; 1; 1; 33.983679
100% Bran; N; C; 70; 4; 1; 130; 10; 5; 6; 280; 25; 3; 1; 0.33; 68.402973
String;Categorical;Categorical;Int;Int;Int;Int;Float;Float;Int;Int;Int;Flo
at;Float;Float
name;mfr;type;calories;protein;fat;sodium;fiber;carbo;sugars;potass;vitamins;s
helf;weight;cups;rating
reaper@cis106:~/Documents/Csv$ tac cereal.csv
reaper@cis106:~/Documents/Csv$ cat -nEv cereal.csv
        name;mfr;type;calories;protein;fat;sodium;fiber;carbo;sugars;potass;vi
tamins; shelf; weight; cups; rating^M$
        String;Categorical;Categorical;Int;Int;Int;Int;Float;Float;Int;Int;Int
;Int;Float;Float;Float^M$
        100% Bran; N; C; 70; 4; 1; 130; 10; 5; 6; 280; 25; 3; 1; 0.33; 68.402973^M$
        100% Natural Bran;Q;C;120;3;5;15;2;8;8;135;0;3;1;1;33.983679^M$
        All-Bran; K; C; 70; 4; 1; 260; 9; 7; 5; 320; 25; 3; 1; 0.33; 59.425505 M$
        All-Bran with Extra Fiber; K; C; 50; 4; 0; 140; 14; 8; 0; 330; 25; 3; 1; 0.5; 93.7049
 \oplus
                                 reaper@cis106: ~/Documents/Csv
                                                                     Q
                                                                         \equiv
                                                                                reaper@cis106:~/Documents/Csv$ head -n 2 cereal.csv
name;mfr;type;calories;protein;fat;sodium;fiber;carbo;sugars;potass;vitamins;shelf;weight;cups
String;Categorical;Categorical;Int;Int;Int;Float;Float;Int;Int;Int;Float;Float;Float
reaper@cis106:~/Documents/Csv$ tail -n 2 cereal.csv
Wheaties;G;C;100;3;1;200;3;17;3;110;25;1;1;1;51.592193
Wheaties Honey Gold;G;C;110;2;1;200;1;16;8;60;25;1;1;0.75;36.187559
reaper@cis106:~/Documents/Csv$
```

Question 2

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\oplus
                                                                             Q | ≡ |
                                                                                       _ _
                                    reaper@cis106: ~/Documents/Csv
reaper@cis106:~/Documents/Csv$ head -n 1 cars.csv
Car;MPG;Cylinders;Displacement;Horsepower;Weight;Acceleration;Model;Origin
reaper@cis106:~/Documents/Csv$ cut -d";" -f1 cars.csv
Car
STRING
Chevrolet Chevelle Malibu
Buick Skylark 320
Plymouth Satellite
 \oplus
                                                                                 \equiv
                                    reaper@cis106: ~/Documents/Csv
                                                                                         reaper@cis106:~/Documents/Csv$ cut -d";" -f1,3 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
Dodge Charger 2.2 = 4
Chevrolet Camaro = 4
Ford Mustang GL = 4
Volkswagen Pickup = 4
Dodge Rampage = 4
Ford Ranger = 4
Chevy S-10 = 4
reaper@cis106:~/Documents/Csv$ cut -d";" -f1,3 cars.csv --output-delimiter=" = "
Volkswagen Type 3;23.0;4;97.00;54.00;2254.;23.5;72;Europe
Volvo 144ea;19.0;4;121.0;112.0;2868.;15.5;73;Europe
Volvo 145e (sw);18.0;4;121.0;112.0;2933.;14.5;72;Europe
Volvo 244DL;22.0;4;121.0;98.00;2945.;14.5;75;Europe
Volvo 245;20.0;4;130.0;102.0;3150.;15.7;76;Europe
Volvo 264gl;17.0;6;163.0;125.0;3140.;13.6;78;Europe
Volvo Diesel;30.7;6;145.0;76.00;3160.;19.6;81;Europe
reaper@cis106:~/Documents/Csv$
Shredded Wheat spoon size;N;C;90;3;0;0;3;20;0;120;0;1;1;0.67;72.801787
Shredded Wheat 'n'Bran;N;C;90;3;0;0;4;19;0;140;0;1;1;0.67;74.472949
Nutri-grain Wheat;K;C;90;3;0;170;3;18;2;90;25;3;1;1;59.642837
Bran Flakes;P;C;90;3;0;210;5;13;5;190;25;3;1;0.67;53.313813
name;mfr;type;calories;protein;fat;sodium;fiber;carbo;sugars;potass;vitamins;shelf;weight;cups
;rating
String;Categorical;Categorical;Int;Int;Int;Int;Float;Float;Int;Int;Int;Int;Float;Float;Float
reaper@cis106:~/Documents/Csv$ sort -t";" -k4 cereal.csv
```

Question 3

```
reaper@cis106:~/Documents/Books$ grep "War" war-and-peace.txt
The Project Gutenberg eBook of War and Peace, by Leo Tolstoy
Title: War and Peace
the Minister of War."
in to the Minister of War. Five minutes later he returned and bowing
corridor to the cabinet where the Minister of War was at work. The
narrowed disdainfully, he entered the room of the Minister of War with
interested the Minister of War less than any of the other matters he was
```

or mother, or self-sacrifice with the possibility of a reward, is more with the self-destruction toward which—ever dissecting and dissecting *** END OF THE PROJECT GUTENBERG EBOOK WAR AND PEACE ***

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