

Homework 1

ECON 470

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Below are my answers to the questions. After class, I shifted from doing everything in one file to multiple files.

Here is a [link to my github repository](#). There is also a folder in submission 2 for my attempt to write the code in Julia but it is incomplete.

Building the data:

The data was cleaned and processed so that the following tables could be computed and displayed.

1.

Plan Count by Type:

Table 1: Plan Count for 2015

year	2015
plan_type	
1876 Cost	7157
Employer/Union Only Direct Contract PDP	25630
HMO/HMOPOS	479275
Local PPO	704993
MSA	6518
Medicare Prescription Drug Plan	991457
Medicare-Medicaid Plan HMO/HMOPOS	4130
National PACE	1216
PFFS	13658
Regional PPO	17578

2.

The data was then further cleaned, removing all special needs plans, employer group plans, and all “800 series” plans.

Updated Plan Count by Type:

Table 2: Updated Plan Count by Type for 2015

year	2015
plan_type	
1876 Cost	2019
HMO/HMOPOS	9115
Local PPO	6126
MSA	111
Medicare Prescription Drug Plan	60236
Medicare-Medicaid Plan HMO/HMOPOS	522
National PACE	213
PFFS	2052
Regional PPO	4853

3.

Average Enrollments by Type in 2015:

Table 3: Enrollment Average by Plan Type for 2015

year	2015
plan_type	
1876 Cost	228.126300
HMO/HMOPOS	848.737795
Local PPO	310.741267
MSA	107.792793
Medicare Prescription Drug Plan	311.750481
Medicare-Medicaid Plan HMO/HMOPOS	623.963602
National PACE	139.976526
PFFS	124.583821
Regional PPO	201.502988