Odugbemi_Homework1_Submission2

```
Attaching package: 'dplyr'

The following objects are masked from 'package:stats':

    filter, lag

The following objects are masked from 'package:base':

    intersect, setdiff, setequal, union


Attaching package: 'kableExtra'

The following object is masked from 'package:dplyr':

    group_rows
```

Question 1

The number of observations in the dataset is 19126783 .

Question 2

The number of unique plan types in the dataset is 27 .

Question 3

Table 1: Plan types by year

Plan Type	2010	2011	2012	2013	2014	2015
1876 Cost	6,035	6,851	7,633	7,731	7,069	7,157
Continuing Care Retirement Community	142	0	0	0	0	0
Employer/Union Only Direct Contract PDP	28,700	28,697	28,669	25,526	25,528	25,630
Employer/Union Only Direct Contract PFFS	3,332	3,329	3,323	0	0	0
ESRD I	117	0	0	0	0	0
ESRD II	8	0	0	0	0	0
HCPP - 1833 Cost	3,604	11	11	10	9	9
HMO/HMOPOS	506,802	528,473	507,272	530,909	523,304	479,275
Local PPO	417,551	515,700	636,701	633,884	664,716	704,993
Medicare Prescription Drug Plan	893,609	771,694	815,223	826,907	1,122,209	991,457
Medicare-Medicaid Plan HMO/HMOPOS	0	0	0	265	1,319	4,130
MSA	135	6,421	6,416	6,431	6,449	6,518
National PACE	717	781	858	953	1,118	1,216
PFFS	385,733	45,781	36,423	31,919	24,905	13,658
Pilot	53	3	3	2	2	2
PSO (State License)	123	176	171	0	0	0
Regional PPO	24,442	22,773	21,602	19,970	19,773	17,578

Question 4

Table 2: Plan types by year (without SNP, EGHP, and 800-series)

Plan Type	2010	2011	2012	2013	2014	2015
Medicare Prescription Drug Plan	391,205	295,458	289,044	278,091	301,082	269,153
PFFS	54,119	22,038	17,449	12,945	6,053	4,232
HMO/HMOPOS	34,460	33,931	37,551	37,179	38,893	36,588
NA	29,733	NA	NA	NA	NA	NA
Local PPO	11,652	13,874	17,030	17,089	17,169	16,728
Regional PPO	10,659	10,995	11,279	9,660	10,420	8,531
1876 Cost	4,923	5,829	6,647	6,759	6,207	6,329
National PACE	717	781	858	953	1,118	1,216
ESRD I	117	NA	NA	NA	NA	NA
PSO (State License)	97	141	143	NA	NA	NA

MSA	68	131	132	145	163	232
Continuing Care Retirement Community	64	NA	NA	NA	NA	NA
Medicare-Medicaid Plan HMO/HMOPOS	NA	NA	NA	265	1,319	4,130

Question 5

Question 6

Question 7

Question 8

800 series plans are private fee for service plans.

Question 9

Since Medicare recipients receive Part A at no cost to them, a $0 premium for MA means that the beneficiaries do not have to pay an extra monthly premium for what part A already covers in the MA plan. Instead, to receive part B coverage they would still have to pay the part B standard premium.

Question 10

I learned how to determine a code is still running in VS code. I also learned how to synchronise the files between the online repository and the folders on my computer. While I was doing this, the gitignore command aggravated me because it didn't work and then all the data started uploading to git which made git mad and I had to delete the repository and the folders multiple times. It was the most annoying thing until I was struggling to figure out how to get the output on a pdf or on the same file that I can download as a pdf. submission 2 - update I figured out how to download as a pdf!