Homework 2

Research Methods, Spring 2025
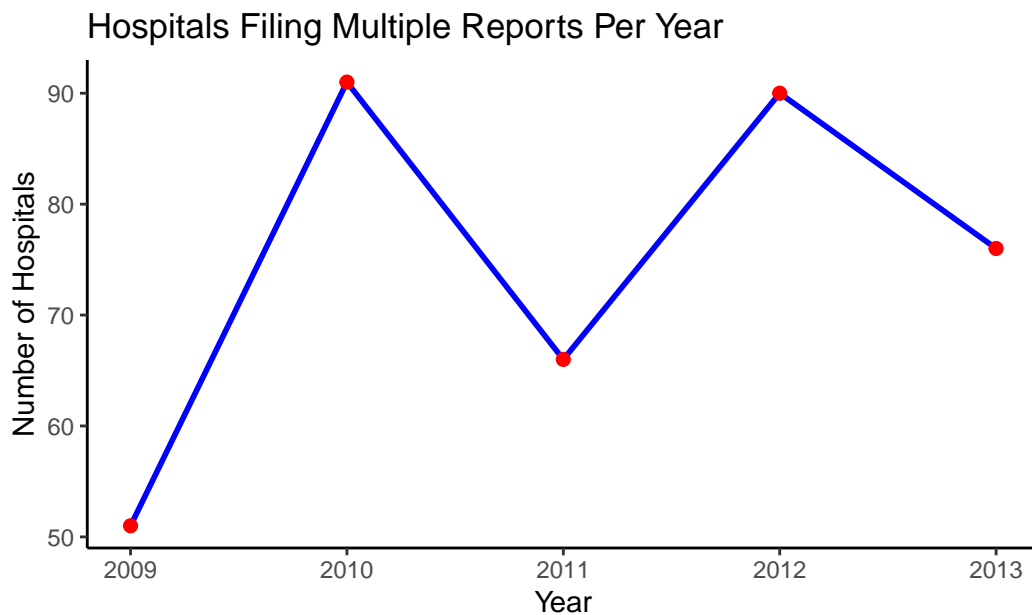
Ethan Murakami

Here is a link to my repository (https://github.com/bemur3/hmwk2)

Question 1

```
Warning: Using `size` aesthetic for lines was deprecated in ggplot2 3.4.0.
i Please use `linewidth` instead.
```

Table 1: Number of Hospitals Over Time
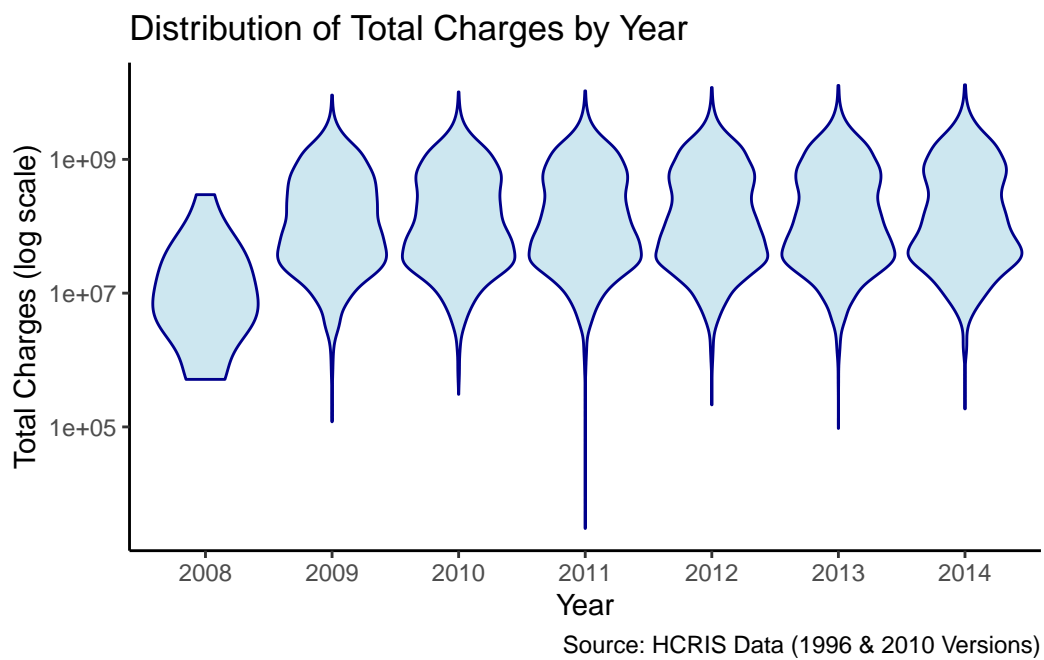

Source: HCRIS Data (1996 & 2010 Versions)

Question 2

```
Number of unique hospital IDs (Medicare provider numbers): 30512
```
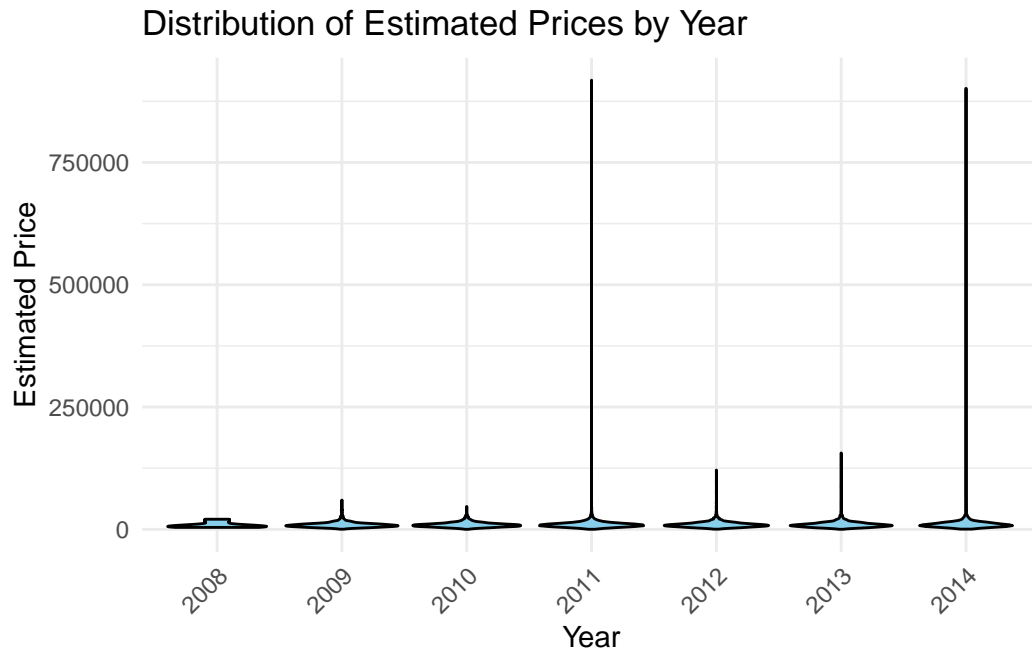
Question 3

```
Warning in transformation$transform(x): NaNs produced
```

```
Warning in scale_y_log10(): log-10 transformation introduced infinite values.
```

```
Warning: Removed 1193 rows containing non-finite outside the scale range
(`stat_ydensity()`).
```

Distribution of Total Charges by Year

Source: HCRIS Data (1996 & 2010 Versions)

Question 4

Distribution of Estimated Prices by Year

Question 5

```
[1] 9896.31
```

```
[1] 9560.41
```

```
# A tibble: 4 x 3
  bed_quartile `No Penalty` Penalty
  <chr>               <dbl>   <dbl>
1 Q1                  7719.   8889.
2 Q2                  8464.  10003.
3 Q3                  9845.  11138.
4 Q4                 12220.  13291.
```

3