

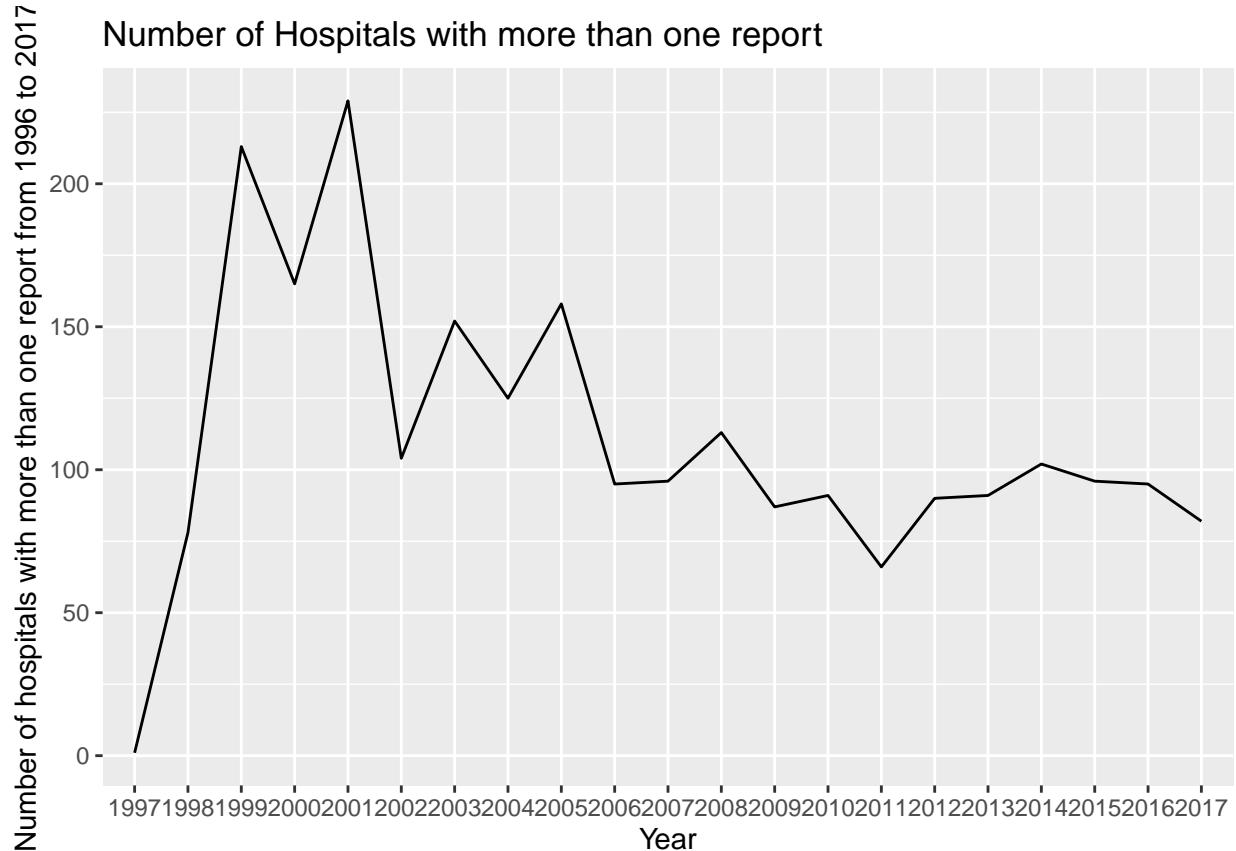
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#Answers

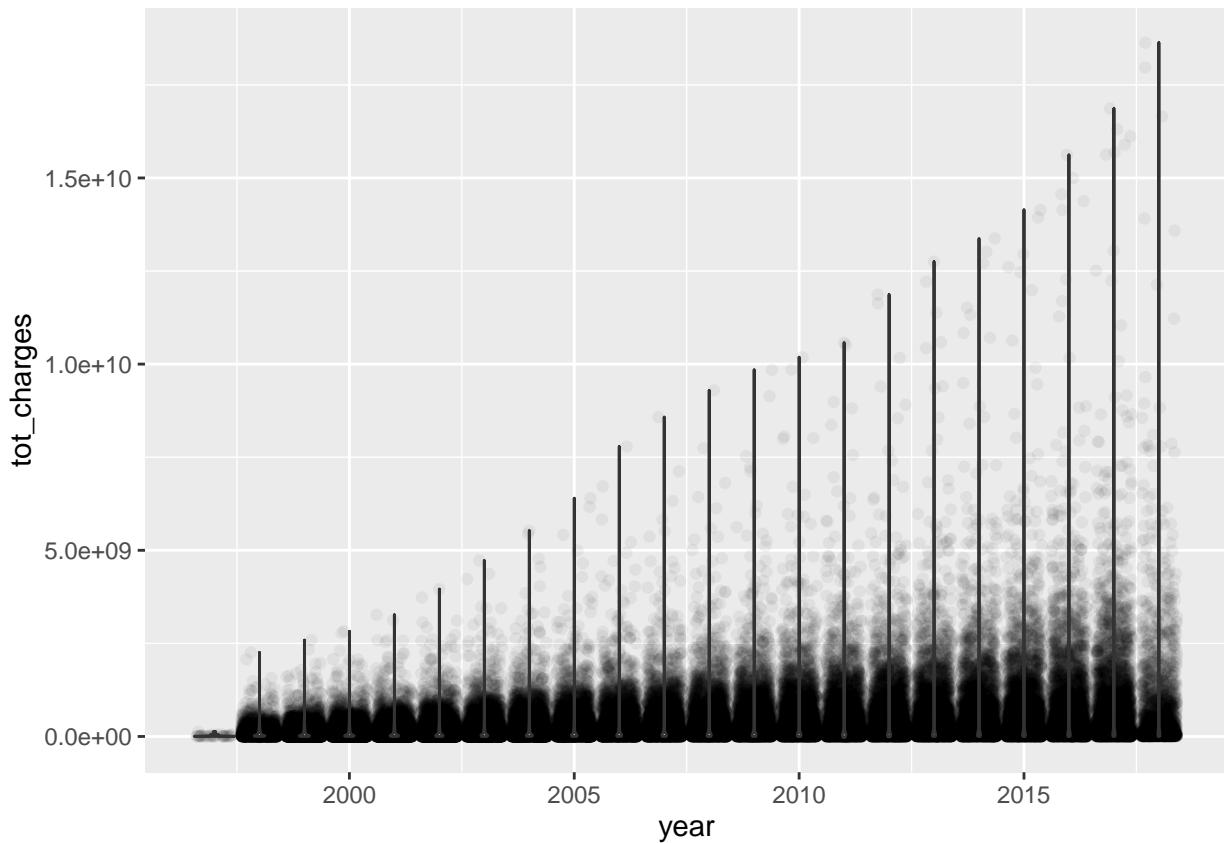
1



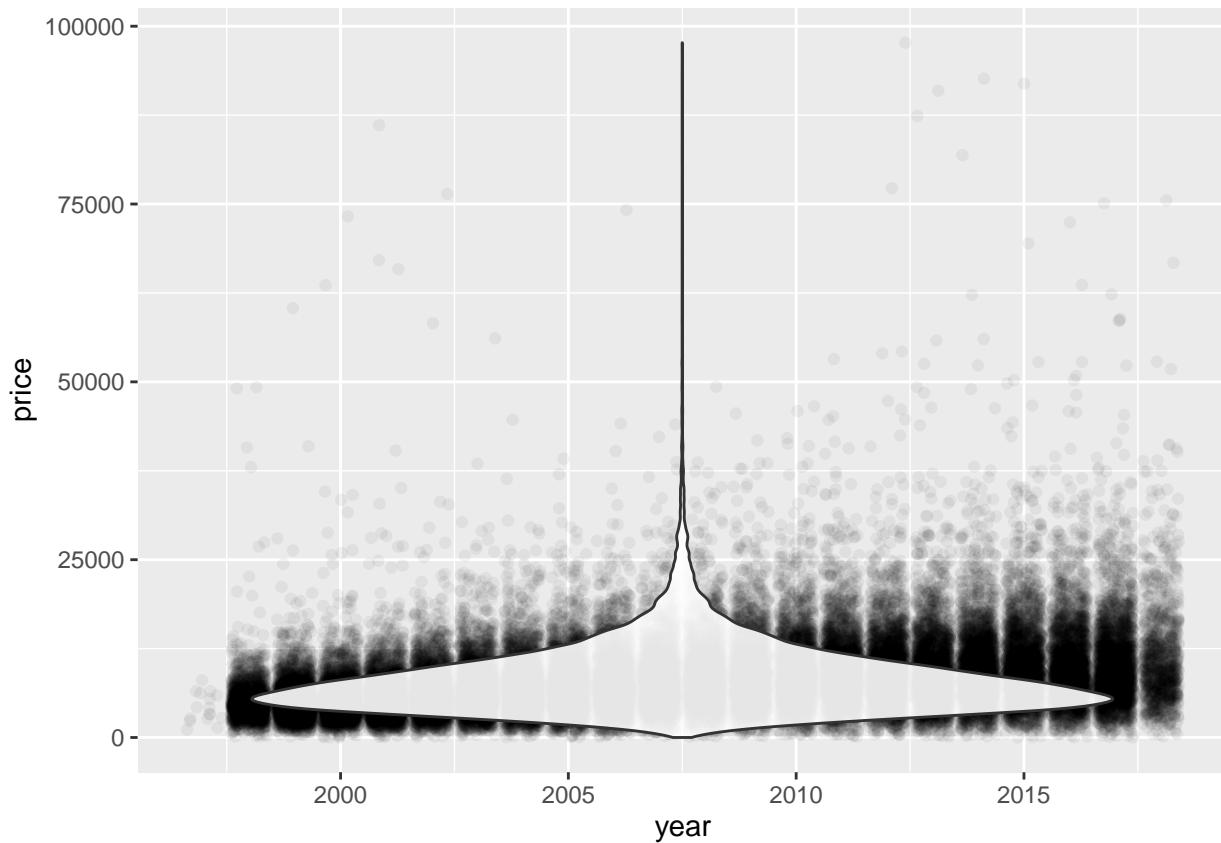
2

```
## Number of unique hospital IDs 9323
```

3



4



5

```
## # A tibble: 1 x 1
##   penalty_price
##       <dbl>
## 1     9896.

## # A tibble: 1 x 1
##   no_penalty_price
##       <dbl>
## 1     9560.
```

6

```
## # A tibble: 8 x 6
## # Groups:   group, Q1, Q2, Q3 [8]
##   group      Q1     Q2     Q3     Q4 mean_price
##   <chr>    <dbl>  <dbl>  <dbl>  <dbl>      <dbl>
## 1 Control     0     0     0     1    12367.
## 2 Control     0     0     1     0     9848.
## 3 Control     0     1     0     0     8526.
## 4 Control     1     0     0     0     7696.
```

```
## 5 Treatment    0    0    0    1    12068.  
## 6 Treatment    0    0    1    0    10132.  
## 7 Treatment    0    1    0    0    8721.  
## 8 Treatment    1    0    0    0    8286.
```

7

8

VERY DIFFERENT

9

I did not estimate a causal inference because i was unable to correctly complete the ATE estimates but to actually answer this question yes because we are able to see the effect of the control and treatment groups on price by also having weights to better estimate the causal inference

10

honestly this homework was incredibly hard and frustrating. I think i spent at least 20 hours of straight coding or problem solving Also i feel very lost in terms of the new material we are covering in class which does not help when i need to apply this knowledge with real data in the homework one thing i did learn was i am getting better at cleanining up the data and I believe I did good work until question 5 ish however one thing that still frustrates me is my inability to understanding the matching function and concepts we have learned in this module.