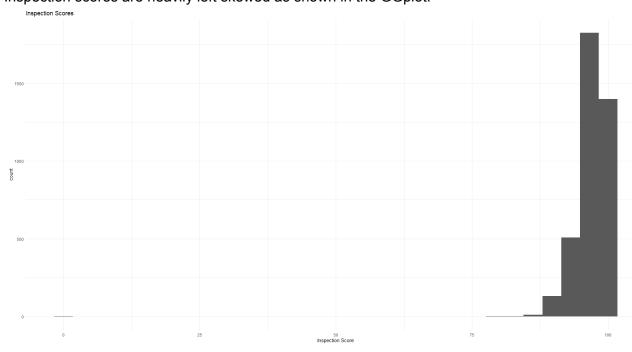
Homework 2 Write-up

1. Inspection scores are heavily left skewed as shown in the GGplot.



2.

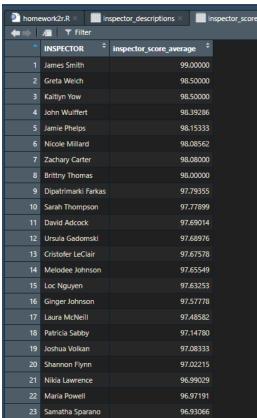
The older facilities have a slightly higher average inspection score than newer facilities. I created two new tables, one with older open dates and one with newer open dates, and found that the mean score for older restaurants was higher than newer restaurants.

3. Inspection scores do vary by city. After re-coding the cities and updating the table, the mean score was calculated, ordered and shown in table "city_score_mean."



4.

The inspection scores do vary by inspector and table "inspector_score" reveals the ordered average inspection score given by each inspector. I also included how many inspectors included descriptions by counting descriptions per inspector through the table "inspector_descriptions."



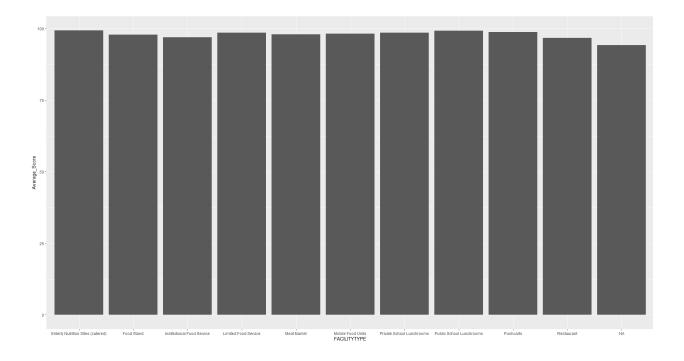
Yes some extreme results from the previous questions are due to small sample sizes. Table "city_inspections_total" orders the cities by the number of inspections and it can be seen that the sample sizes greatly differ.



6.

No, table "facility_mean" shows that restaurants rank at the bottom for average inspection scores and the GGplot shows the same results.

← ⇒ I 📶 🔻 Filter			
^	FACILITYTYPE [‡]	Average_Score	
1	Elderly Nutrition Sites (catered)	99.25000	
2	Food Stand	97.74735	
3	Institutional Food Service	96.90217	
4	Limited Food Service	98.50000	
5	Meat Market	97.95161	
6	Mobile Food Units	98.14917	
7	Private School Lunchrooms	98.50000	
8	Public School Lunchrooms	99.19730	
9	Pushcarts	98.76923	
10	Restaurant	96.68070	
11	NA	94.15034	



7-2 Newer restaurants have a better inspection score average

7-3

Inspection scores vary by city shown in "res_city_score_mean"

7-4

Inspection scores vary by inspector shown in "res_inspector_score"

7-5

Sample sizes vary by city and explain the results for mean inspection scores shown in table "res_city_inspections_total"