SAT $ ACT @ 2017

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Problem??

Finding the correlation between SAT 2017 and ACT 2017.

Steps :

1. Importing pandas libraries.

2. Importing SAT 2017 and ACT 2017 csv files to dataframes.

3. Data cleaning.

4. Data merging into one final data frame.

5. Creating data dictionary.

6. Exploratory data Analysis.

7. Data vizz

8. Conclusions

9. Recommendation

DATA CLEANING:

- Change Data types in all dataset.
- Change percentage into float.
- Drop extra raw in ACT data set.
- Change some datas to make get more accuracy.

More Cleaning:

-FInding extra row national and deleting from act 2017 dataset.

-Finding minimum math value as inappropriate,changed to more accurate value.

-Finding science value as inappropriate,changed to more accurate value.

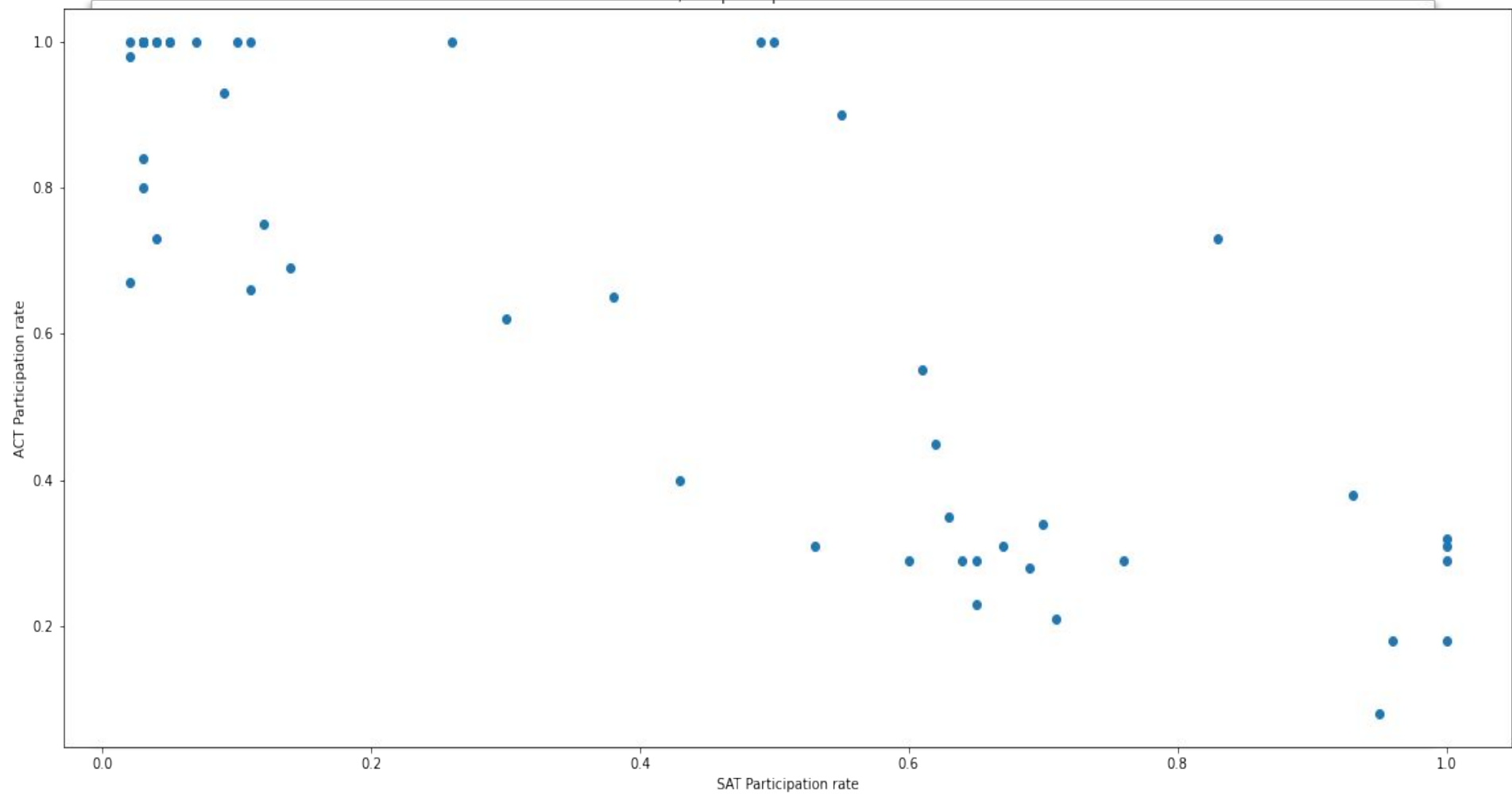-Finding composite act score as a object,changed to float.

EDA

Summary Statistics

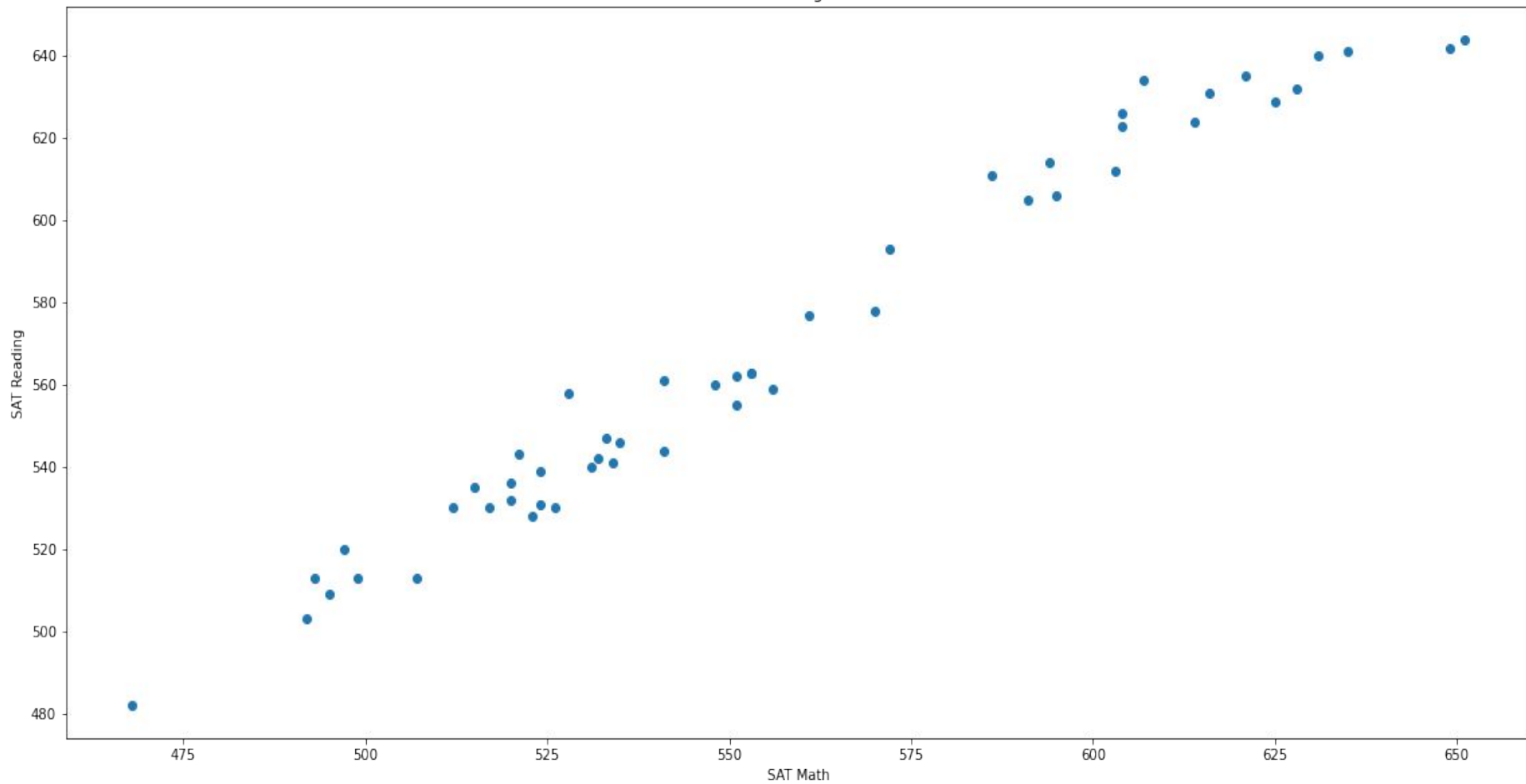Investigate trends
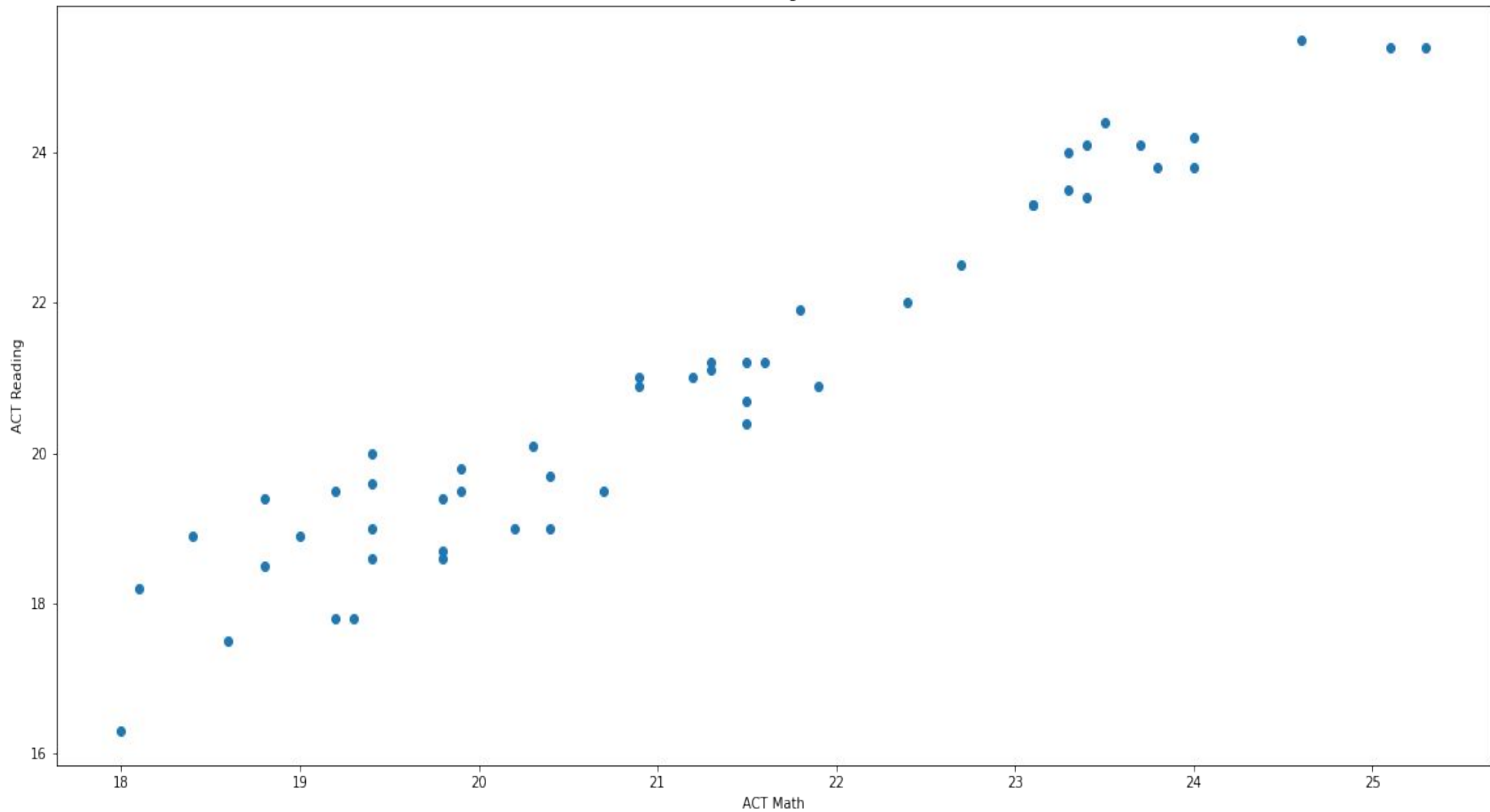
Finding patterns

DATA VIZZ…

SAT/ACT participation rate in 2017

SAT Math & Reading Score in 2017

ACT Math & Reading Score in 2017

CONCLUSION

* More states prefer ACT over SAT.
* 17 states with max 100% participation in ACT.
* 4 states with max 100% participation in SAT.
* The minimum participation rate was 8% in ACT and 2% in SAT.
*Students who scored max score in reading,scored max score in math as well.

Recommendation

* I recommend that the authorities should focus to raise SAT participation rates.
* Some states have low participation rate in both ACT and SAT,authorities should focus on these states to make 100% participation rate.Reducing exam fees or making it free of cost may be a good step to increase participation.
* Authorities may check student's background who scored low total score to ensure giving them more necessary support.

THE END