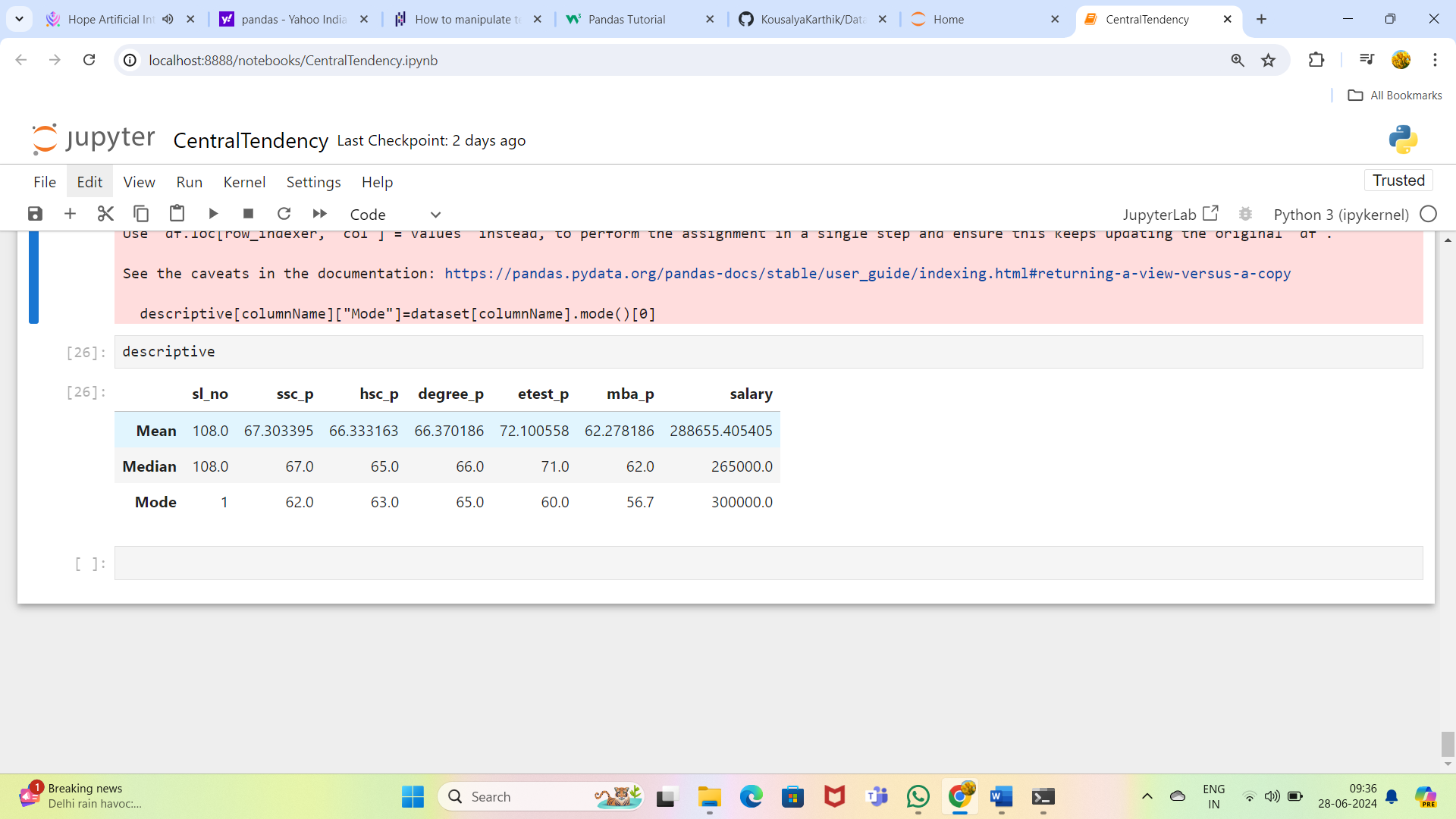
DATA SCIENCE – UNIVARIATE ANALYSIS

# Central Tendency



**Mean**:

Students of this data has got average marks in (ssc\_p, hsc\_p, degree\_p, mba\_p)

But in (etest\_p) alone there performance is good.

**Median**:

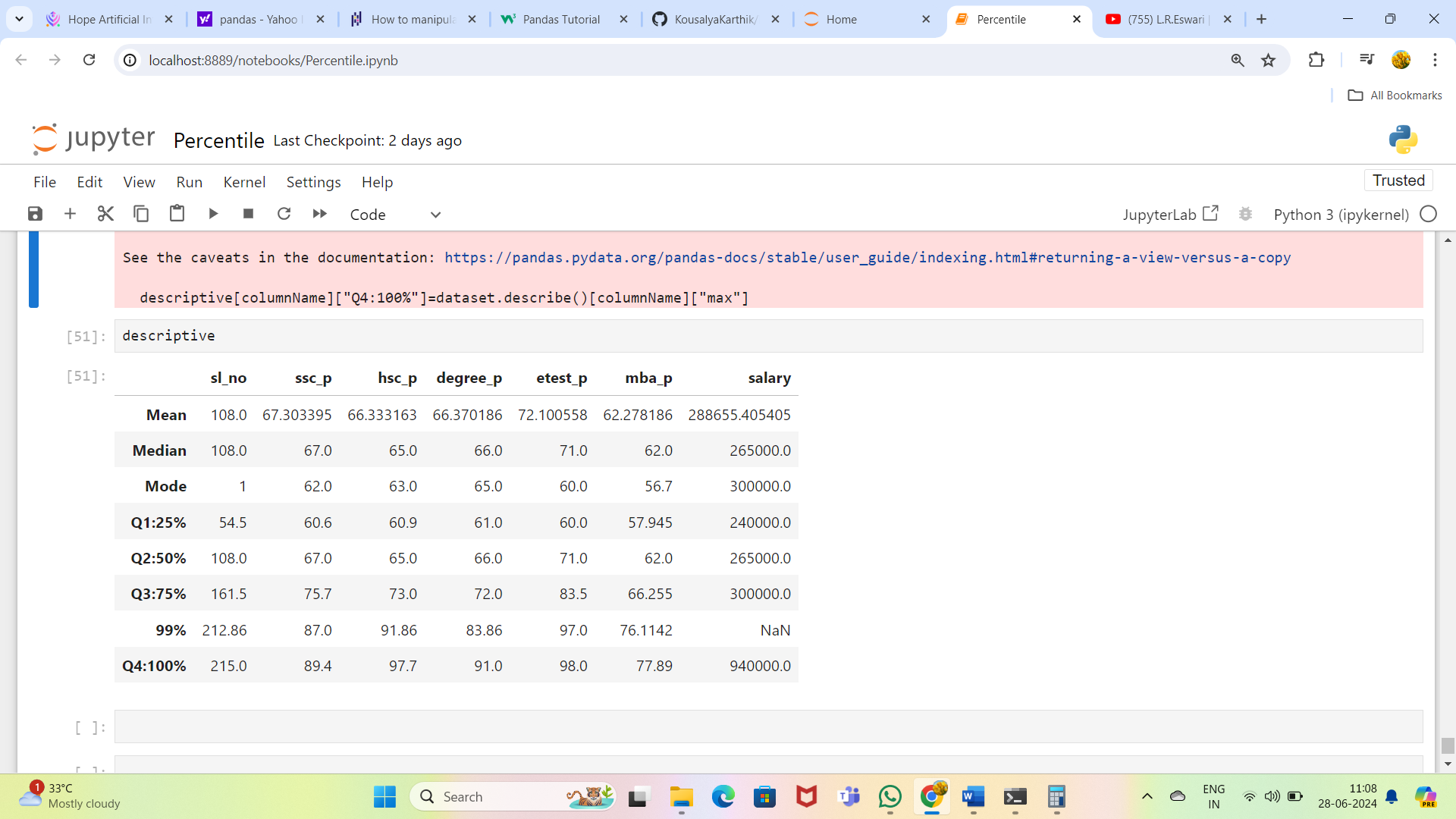
There is a outlier in the salary data for this data since there is a difference of (288655.405405 -265000.0 =23,655.405405) compared to Mean and median salary.

**Mode**:

Repeated values for

| ssc\_p : 62.0 | hsc\_p: 63.0 | degree\_p: 65.0 | etest\_p: 60.0 | mba\_p: 56.7 | Salary: 300000.0 |
| --- | --- | --- | --- | --- | --- |

# PERCENTILE



**ssc\_p**

25% of the ssc\_p mark exists within the value 60.6

50% of the ssc\_p mark exists within the value 67.0

75% of the ssc\_p mark exists within the value 75.7

100% of the ssc\_p mark exists within the value 89.4

**hsc\_p**

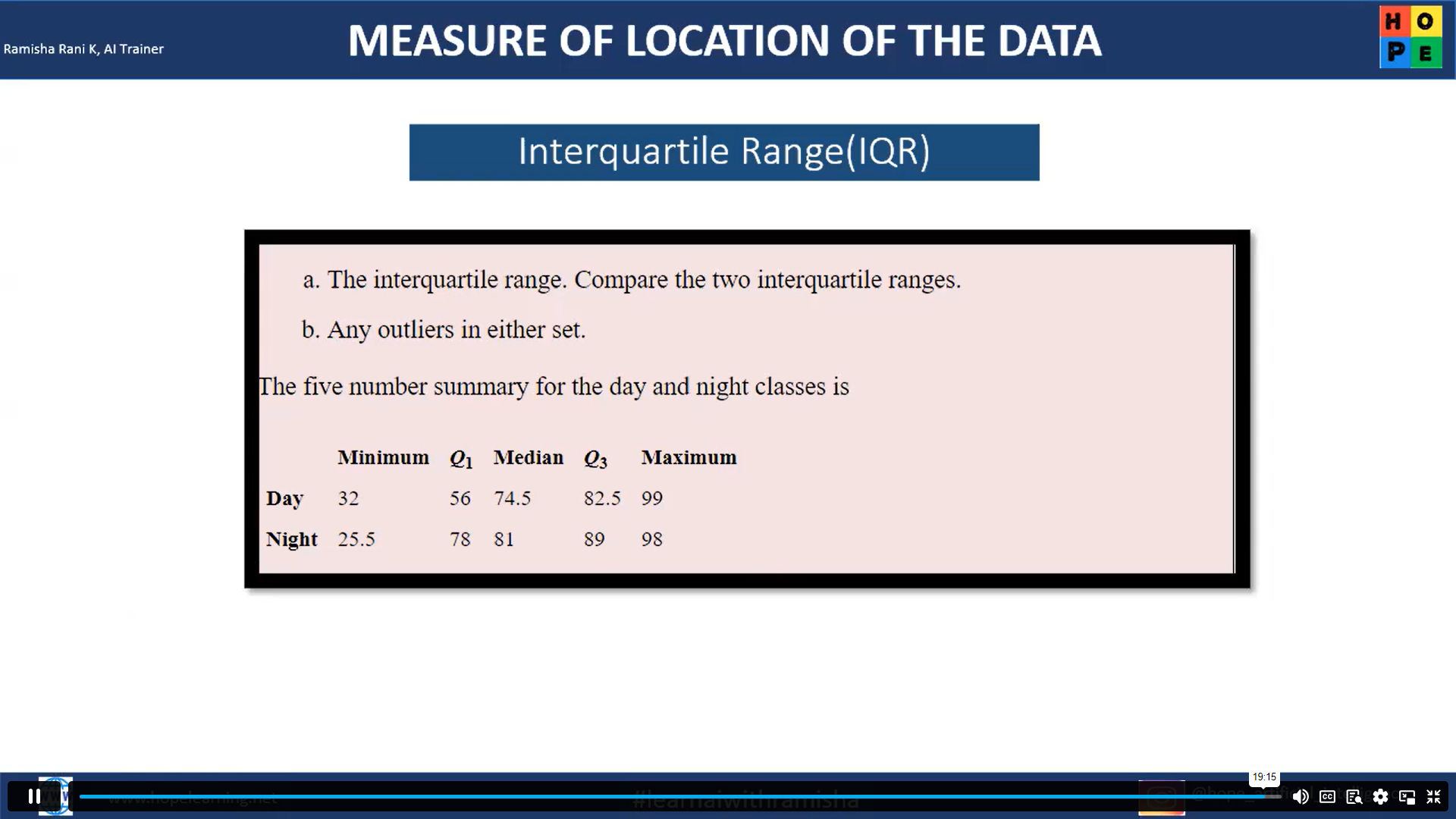
25% of the hsc\_p mark exists within the value 60.9

50% of the ssc\_p mark exists within the value 65.0

75% of the ssc\_p mark exists within the value 73.0

100% of the ssc\_p mark exists within the value 97.7

# IQR



**Lesser than outlier – For Day**

Less than outlier = Q1 -1.5\*IQR

IQR = Q3-Q1 =26.5

LTO = 56-1.5\*26.5 =16.25

There is no lesser than outlier for day since the minimum value is not less than 16.25

**Greater than outlier – For Day**

GTO =Q3 + 1.5\*IQR

GTO = 82.5+1.5\*26.5 =122.25

There is no greater than outlier for day since the maximum value is not greater than 122.25

**Lesser than outlier – For Night**

Less than outlier = Q1 -1.5\*IQR

IQR = Q3-Q1 =89-78 =11

LTO = 78-1.5\*11 =61.5

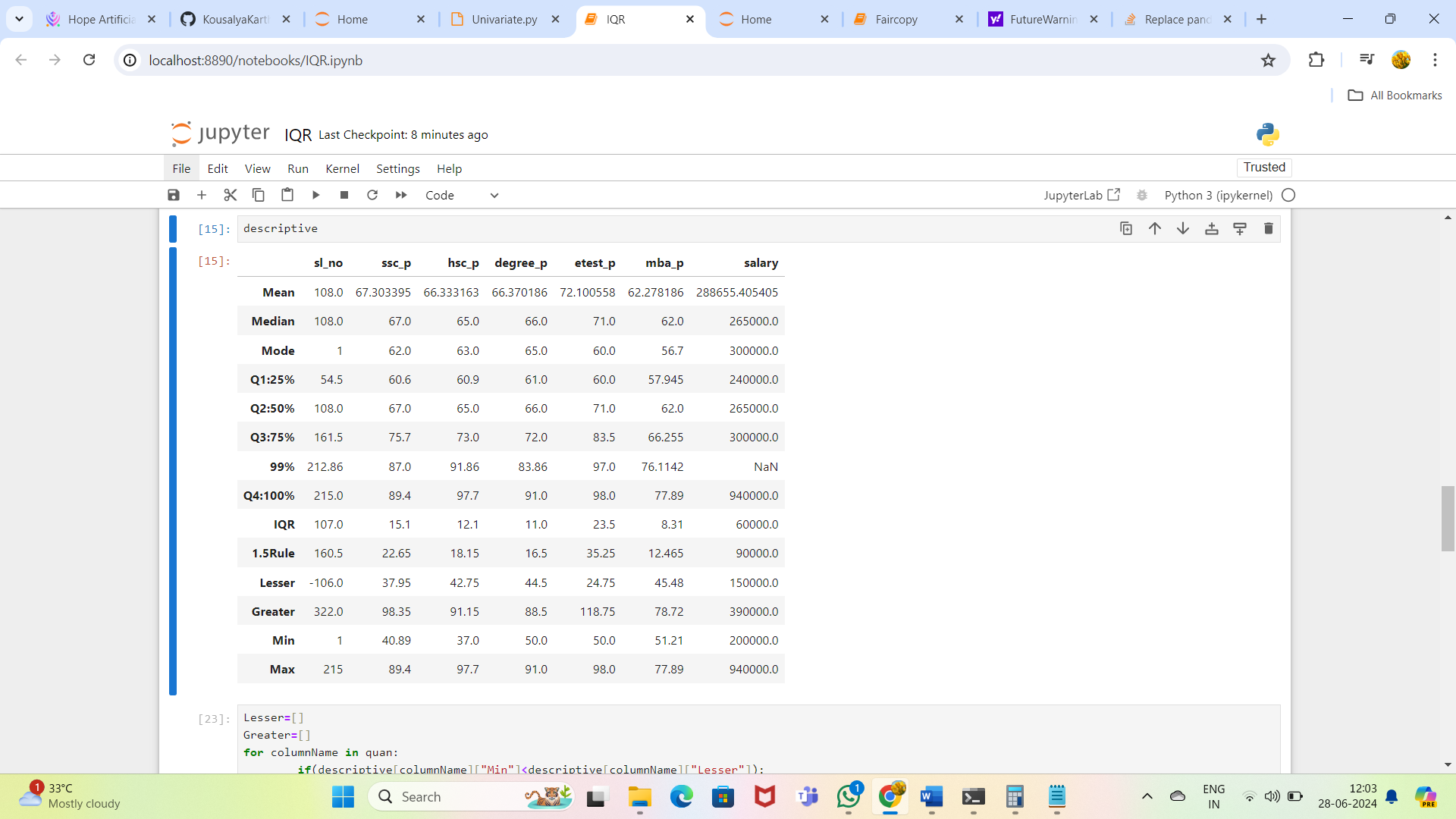
There is no lesser than outlier for night since the minimum value is not less than 25.5

**Greater than outlier – For Night**

GTO =Q3 + 1.5\*IQR

GTO = 89+1.5\*11 =105.5

There is greater than outlier for night since the maximum value is greater than 98



hsc\_p column has lesser than outlier since min value is less than 42.75

['hsc\_p', 'degree\_p', 'salary'] columns have greater than outlier since max value is greater than their respective greater than outlier values