4.3 Persentiles and Quartiles

Persientage = sum of all X100 Total number

· A percentile is a value below which lies a certain percentage of observation

ex- 39 percentile means a person get better marks than 99% people.

- It may tell us about the distribution how much percentile. at dota, like how much data in
- Two value can have same percentile rank.

* S Number throad To used to semove B. First Ouastile H USPD of DASD H

A Minimum

(25 percentile) Skellino

(75 percentile) to remove outliers we use ponces. boxplot to remove -

Ic. Median

(10)

11 Third Buartile

-> we keep the values between the lower

E-maximum

(B3)

and higher fence and semoup others.

Higher Jence = 03+1.5 [IBR]

chese,

IOR is Inter Quartile range, IOR= 03-01

> to treat outliers make fence > To visualize outliers use Boxplot.

+ Drawing Boxplot ,

Eu- (1, 27,2,3,3,3,4, 5,5,5,6,6,6,6) 7, 8,8, 9,27 5

 $\Theta_3 = \frac{75}{100} \times (2011) = 15.75$ $\Theta_1 = \frac{25}{100} \times (2011) = 5.25$ (ind) $\frac{3+3}{100} = \frac{3+3}{2} = 3$ · 多图 val = 8+1=1·5

SO) LF= 3-16x3=-365.

HF= 3+1.5x7.5 = 14.25

Our valups must be within, [-3.65 to 14.25]

so, zis only outlips in our dataset

0-3=7-5, maximum (without outliers) = 9 minimum=1, 01=3, mpdian=5