1. Data cleaning value, hoise, inconsiste) Ignone the typle Texp. 1/25 speed Automin Signs L.s ii) fill in manually

(11) filling in wring global constants X --> 1997 je) filling in ouithmean value $2s^{-0} - 35^{\circ} / \sum_{h=1n}^{\infty}$ V). Categoinze d vij most-probable value intenpolation 4 6

Voise Elimination meanigless 20'21,25,30,31

iving byme on of-each bien →2 Bin 2 Regeression temp 25-1 2pm

iii) clu Red

P.T. 0

2. Stata Thegration Pi) eart lict Resolution B=2A) iii) Deta Structure misma

Correlation Coefficient (Pearson's Coefficient) $\sum_{i=1}^{N} (\alpha_i - \overline{A}) (b_i - \overline{B})$ Signal (aibi) - NAB

or, Zav-A.N

$$V_{A,B} = \frac{\sum_{i=1}^{N} (a_i - \overline{A}) (b_i - \overline{B})}{N \cdot \sqrt{\sum_{i=1}^{N} (a_i - \overline{A})} \sqrt{\sum_{i=1}^{N} (b_i - \overline{B})}}$$

$$\frac{\sum_{i=1}^{N} (a_i - \overline{A}) (b_i - \overline{B})}{\sum_{i=1}^{N} (a_i - \overline{A})}$$

$$\frac{\sum_{i=1}^{N} (a_i - \overline{A})}{\sum_{i=1}^{N} (a_i - \overline{A})}$$

-1 +0 +1

-> A & B are

posietively correlated

- Vely coordended. 7ABDO YA_B < 0 - A & B oure in dependent. A, B = 0 is able to deter-only linear correlation

A=2B

$$\gamma_{AB} = \frac{(-2.4) \cdot (-4.4) + (-1.4) (-2.8) + (-0.4) (-6.8) + (-1.4) (-2.8) + (-0.4) (-6.8) (-6.8) + (-0.4) (-6.8) (-6.8) + (-0.4) (-6.8) (-6.8) + (-0.4) (-6.8) (-6.8) + (-0.4) (-6.8) ($$

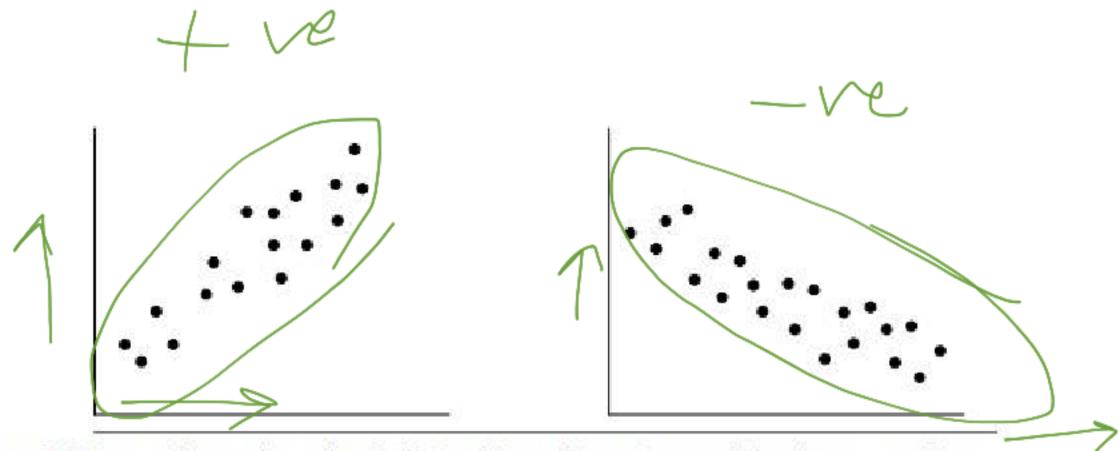


Figure 2.8 Scatter plots can be used to find (a) positive or (b) negative correlations between attributes.

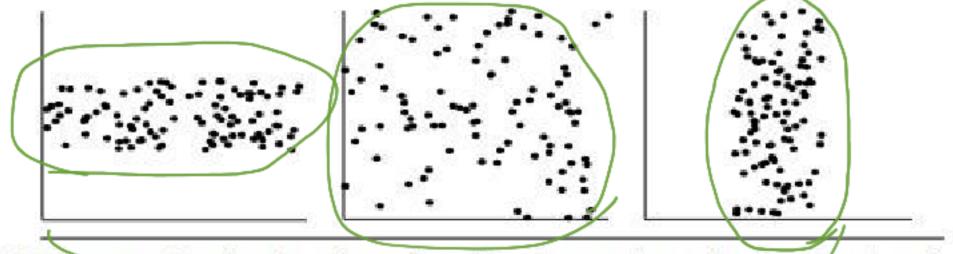


Figure 2.9 Three cases where there is no observed correlation between the two plotted attributes in each of the data sets.

2 Sata Normalization