4.2.7.1 Lift Example revision

Solution (a)

© confidence
$$(C \Rightarrow T) = \frac{\sigma(CUT)}{\sigma(C)} = \frac{150}{800} = 0.1874$$

Support $(T) = \frac{200}{1000} = 0.2$

3 Lift(c, 7) =
$$\frac{0.1875}{0.2} = 0.9375$$

negative correlated.

© confidence
$$(7 \Rightarrow c) = \frac{5(70c)}{5(7)} = \frac{150}{200} = 0.75$$

Support $(7) = \frac{800}{1000} = 0.8$

3 Lift(T,C) =
$$\frac{0.75}{0.8}$$
 = 0.9375 < 1 negative correlated.