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Matkul = Data mining

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$$* D_{11} : \sqrt{(M_{1x} - C_{1x})^2 + (M_{1y} + C_{1y})^2} = \sqrt{(1-3)^2 + (4.5-4)^2}$$

$$\sqrt{4.25} = 2.06$$

$$* D_{12} : \sqrt{(M_{2x} - C_{1x})^2 + (M_{2y} + C_{1y})^2} = (3-3)^2 + (6.5-4)^2$$

$$\sqrt{6.25} = 2.5$$

$$* D_{13} : \sqrt{(M_{3x} - C_{1x})^2 + (M_{3y} + C_{1y})^2} = (4-3)^2 + (4.5-4)^2$$

$$\sqrt{1.25} = 1.12$$

$$* D_{14} : \sqrt{(M_{4x} - C_{1x})^2 + (M_{4y} + C_{1y})^2} = (7.5-3)^2 + (3.2-4)^2$$

$$\sqrt{20.89} = 4.57$$

$$* D_{15} : \sqrt{(M_{5x} - C_{1x})^2 + (M_{5y} + C_{1y})^2} = (6-3)^2 + (2.3-4)^2$$

$$\sqrt{11.89} = 3.45$$

$$* D_{16} : \sqrt{(M_{6x} - C_{1x})^2 + (M_{6y} + C_{1y})^2} = (2.5-3)^2 + (3.8-4)^2$$

$$\sqrt{0.29} = 0.54$$

$$* D_{17} : \sqrt{(M_{7x} - C_{1x})^2 + (M_{7y} + C_{1y})^2} = (5-2)^2 + (5.5-4)^2$$

$$\sqrt{6.25} = 2.5$$

$$* D_{21} : (1-6)^2 + (4.5-4)^2 = \sqrt{25.25} = 5.02$$

$$* D_{22} : (3-6)^2 + (6.5-4)^2 = \sqrt{15.25} = 3.91$$

$$* D_{23} : (4-6)^2 + (4.5-4)^2 = \sqrt{4.25} = 2.06$$

$$* D_{24} : (7.5-6) + (3.2-4) = \sqrt{2.89} = 1.7$$

$$* D_{25} : (6-6)^2 + (2.3-4) = \sqrt{2.89} = 1.7$$

$$* D_{26} : (2.5-6) + (3.8-4) = \sqrt{2.29} = 1.51$$

$$* D_{27} : (5-6)^2 + (5.5-4) = \sqrt{3.25} = 1.80$$

b. jarak c1 2,06 , 2,5 , 1,12 , 9,57 ,
3,95 , 0,59 , ~~3,5~~ 2,5

jarak c2 5,02 , 3,91 , 2,06 , 1,7 , 3,51
1,00

c. $M_1 = (1,45)$, $M_2 = (3,65)$, $M_3 = (4,45)$:

$M_4 = (7,5, 3,2)$

$M_5 = (6,2,3)$, $M_6 = (2,5, 3,0)$, $M_7 = (5,5,5)$

$C_1 = \left(\frac{1+3+4+2.5}{4}, \frac{4.5+6.5+4.5+3.0}{4} \right)$:

$(2,63, 4,23)$

$C_2 = \left(\frac{7.5+6+5}{3}, \frac{3.2+2.3+5.6}{3} \right) = (6, 11, 3,62)$

Contoh 2

$D_{11} : 1.66$ $D_{21} : 5.24$
 $D_{12} : 1.71$ $D_{22} : 4.25$
 $D_{13} : 1.41$ $D_{23} : 2.32$
 $D_{14} : 5.14$ $D_{24} : 1.45$
 $D_{15} : 4.21$ $D_{25} : 1.38$
 $D_{16} : 1.09$ $D_{26} : 3.67$
 $D_{17} : 2.46$ $D_{27} : 2.17$

Jarak C_1 1.66 | 1.71 | 1.41 | 5.14 | 4.21 | 1.09

2.46 |

C_2 5.24 | 4.25 | 2.32 | 1.45 | 1.38 | 3.67

2.17 |

* karena anggota kelompok tidak ada yang berubah maka titik pusat pun tidak akan berubah

kesimpulan (M_1, M_2, M_3, M_6) anggota (M_4, M_5, M_7) anggota