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Tabel Alternatif

Alternatif	C1	C2	C3	C4	C5
Bobot	15%	30%	20%	25%	10%
A1	60	75	3	75	60
A2	60	99	5	87	90
A3	45	25	3	60	25
A4	50	80	2	70	85
A5	70	85	7	88	95
A6	35	65	4	70	75
A7	80	75	1	85	77

Menghitung MFEP

Mencari ^{nilai} bobot evaluasi

$$- NBE = NBF \times NEF$$

Mencari total bobot evaluasi

$$TBE = NBE1 + NBE2 + \dots$$

$$\begin{aligned} A1 &= (60 \times 15\%) + (30\% \times 75) + (20\% \times 3) + (25\% \times 75) + (10\% \times 60) \\ &= 9 + 22,5 + 0,6 + 18,75 + 6 \\ &= 56,85 \end{aligned}$$

$$\begin{aligned} A2 &= (15\% \times 60) + (30\% \times 99) + (20\% \times 5) + (25\% \times 87) + (10\% \times 90) \\ &= 9 + 29,7 + 1 + 21,75 + 9 \\ &= 70,45 \end{aligned}$$

$$\begin{aligned} A3 &= (15\% \times 45) + (30\% \times 25) + (20\% \times 3) + (25\% \times 60) + (10\% \times 25) \\ &= 6,75 + 7,5 + 0,6 + 15 + 2,5 \\ &= 32,35 \end{aligned}$$

$$\begin{aligned} A4 &= (15\% \times 50) + (30\% \times 80) + (20\% \times 2) + (25\% \times 70) + (10\% \times 85) \\ &= 7,5 + 24 + 0,4 + 17,5 + 8,5 \\ &= 57,9 \end{aligned}$$



$$\begin{aligned}
 A5 &= (15\% \times 70) + (30\% \times 85) + (20\% \times 7) + (25\% \times 88) + (10\% \times 93) \\
 &= 10,5 + 25,5 + 1,4 + 22 + 9,3 \\
 &= \underline{68,7}
 \end{aligned}$$

$$\begin{aligned}
 A6 &= (15\% \times 35) + (30\% \times 65) + (20\% \times 4) + (25\% \times 70) + (10\% \times 75) \\
 &= 5,25 + 19,5 + 0,8 + 17,5 + 7,5 \\
 &= \underline{50,55}
 \end{aligned}$$

$$\begin{aligned}
 A7 &= (15\% \times 80) + (30\% \times 75) + (20\% \times 1) + (25\% \times 85) + (10\% \times 7,7) \\
 &= 12 + 22,5 + 0,2 + 21,25 + 7,7 \\
 &= \underline{63,65}
 \end{aligned}$$

	C1	C2	C3	C4	C5	TBE
A1	15%	30%	20%	25%	10%	
A1	0	22,5	0,6	18,75	6	56,85
A2	0	29,5	1	21,75	9	70,45
A3	6,75	7,5	0,6	15	2,5	32,35
A4	7,5	24	0,4	17,5	8,5	57,9
A5	10,5	25,5	1,4	22	9,3	68,7
A6	5,25	19,5	0,8	17,5	7,5	50,55
A7	12	22,5	0,2	21,25	7,7	63,65

Jadi Pemilihan karyawan terbaik menggunakan metode MKEP adalah A2 = Tita dengan nilai 70,45 dan A5 = Dian dengan nilai 68,7

Metode SAW

Normalisasi =

$$r_{11} = \frac{60}{\text{Max} \{ 60; 60; 45; 56; 70; 35; 80 \}} = \frac{60}{80} = 0,75$$

$$r_{12} = \frac{75}{\text{Max} \{ 75; 99; 25; 80; 85; 65; 75 \}} = \frac{75}{99} = 0,76$$

$$r_{13} = \frac{3}{\text{Max} \{ 3; 5; 3; 2; 7; 4; 13 \}} = \frac{3}{7} = 0,43$$

$$r_{14} = \frac{75}{\text{Max } \{75; 87; 60; 70; 88; 70; 85\}} = \frac{75}{88} = 0,85$$

$$r_{15} = \frac{60}{\text{Max } \{60; 90; 25; 85; 93; 75; 77\}} = \frac{60}{93} = 0,65$$

$$r_{21} = \frac{60}{80} = 0,75 \quad r_{23} = \frac{5}{7} = 0,71 \quad r_{25} = \frac{90}{93} = 0,97$$

$$r_{22} = \frac{99}{99} = 1 \quad r_{24} = \frac{87}{88} = 0,99$$

$$r_{31} = \frac{45}{80} = 0,56 \quad r_{33} = \frac{3}{7} = 0,43 \quad r_{35} = \frac{25}{93} = 0,27$$

$$r_{32} = \frac{25}{99} = 0,25 \quad r_{34} = \frac{60}{88} = 0,68$$

$$r_{41} = \frac{50}{80} = 0,63 \quad r_{43} = \frac{2}{7} = 0,29 \quad r_{45} = \frac{83}{93} = 0,91$$

$$r_{42} = \frac{80}{99} = 0,81 \quad r_{44} = \frac{70}{88} = 0,80$$

$$r_{51} = \frac{70}{80} = 0,88 \quad r_{53} = \frac{7}{7} = 1 \quad r_{55} = \frac{93}{93} = 1$$

$$r_{52} = \frac{85}{99} = 0,86 \quad r_{54} = \frac{88}{88} = 1$$

$$r_{61} = \frac{35}{80} = 0,44 \quad r_{63} = \frac{4}{7} = 0,57 \quad r_{65} = \frac{75}{93} = 0,81$$

$$r_{62} = \frac{65}{99} = 0,66 \quad r_{64} = \frac{70}{88} = 0,79$$

$$r_{71} = \frac{80}{80} = 1 \quad r_{73} = \frac{1}{7} = 0,14 \quad r_{75} = \frac{77}{93} = 0,83$$

$$r_{72} = \frac{75}{99} = 0,76 \quad r_{74} = \frac{85}{88} = 0,97$$

$$\text{Hasil} = \text{Bobot} = (0,15 \quad 0,3 \quad 0,2 \quad 0,25 \quad 0,1)$$

$$A1 = (0,15 \times 0,75) + (0,3 \times 0,76) + (0,2 \times 0,43) + (0,25 \times 0,85) + (0,1 \times 0,65) \\ = 0,70$$