Nama : Sylviana Rahmawati, Dwi Arini Ayu A

NIM : 22.02.0834, 22.02.0832

Kelas : Penambangan Data I

1) Simpel Moving Average

Bulan	Penjualan	3 Bulan	Devriasi Absolut	(Devriasi)^2
Jan	93			
Feb	55			
Mar	25			
Apr	19	57,67	$19 - 57,67 = 38,67$	$(19-57,67)^2 = (-38,67)^2 = 1495,11$
Mei	80	33	$80 - 33 = 47$	$(80-33)^2 = (47)^2 = 2209$
Jun	86	41,33	$86 - 41,33 = 44,67$	$(86-41,33)^2 = (44,67)^2 = 1995,11$
Jul	94	61,67	$94 - 61,67 = 32,33$	$(94-61,67)^2 = (32,33)^2 = 1045,49$
Agu	15	86,67	$15 - 86,67 = 71,67$	$(15-86,67)^2 = (-71,67)^2 = 5136,11$
Sep	60	65	$60 - 65 = 5$	$(60-65)^2 = (-5)^2 = 25$
Okt	50	56,33	$50 - 56,33 = 6,33$	$(50-56,33)^2 = (-6,33)^2 = 40,11$
Nov	66	41,67	$66 - 41,67 = 24,33$	$(66-41,67)^2 = (24,33)^2 = 592,11$
Des	35	58,67	$35 - 58,67 = 23,67$	$(35-58,67)^2 = (-23,67)^2 = 560,11$
		Jumlah	293,67	13098.1

$$MAD = \frac{\sum_{t=1}^{n} |A_t - F_t|}{n} = \frac{293,67}{9} = 32,63$$

$$MSE = \frac{\sum_{t=1}^{9} |A_t - F_t|}{n} = \frac{13098.1}{9} = 1455,35$$

2) Weighted Moving Average

①
Bulan	P	w	WMA
Jan	93	0,3	
Feb	55	0,2	
Mar	25	0,5	
Apr			51,4

③
Bulan	P	w	WMA
Mar	25	0,2	
Apr	19	0,3	
Mei	80	0,5	
Jun			50,7

②
Bulan	P	w	WMA
Feb	55	0,1	
Mar	25	0,3	
Apr	19	0,6	
Mei			24,4

④
Bulan	P	w	WMA
Apr	19	0,2	
Mei	80	0,3	
Jun	86	0,5	
Jul			70,8

⑤

Bulan	P	W	WMA
Mei	80	0,3	
Jun	86	0,3	
Jul	94	0,4	
Agu			87,4

⑦

Bulan	P	W	WMA
Jul	94	0,4	
Agu	15	0,1	
Sep	60	0,5	
Okt			69,1

⑥

Bulan	P	W	WMA
Jun	86	0,2	
Jul	94	0,1	
Agu	15	0,7	
Sep			37.1

⑧

Bulan	P	W	WMA
Agu	15	0,1	
Sep	60	0,6	
Okt	50	0,3	
Nov			52,5

⑨

Bulan	P	W	WMA
Sep	60	0,2	
Okt	50	0,3	
Nov	66	0,5	
Des			60

Bulan	P	WMA	Deviasi absolute	(Deviasi)^2
Jan	93			
Feb	55			
Mar	25			
Apr	19	51,4	19−51,4 = 32,4	$(19-51,4)^2 = (32,4)^2 = 1049,76$
Mei	80	24,4	80−24,4 = 55,6	$(80-24,4)^2 = (55,6)^2 = 3091,36$
Jun	86	50,7	86−50,7 = 35,3	$(86-50,7)^2 = (35,3)^2 = 1246,09$
Jul	94	70,8	94−70,8 = 23,2	$(94-70,8)^2 = (23,2)^2 = 538,24$
Agu	15	87,4	15−87,4 = 72,4	$(15-87,4)^2 = (72,4)^2 = 5.241,76$
Sep	60	37,1	60−37,1 = 22,9	$(60-37,1)^2 = (22,9)^2 = 524,41$
Okt	50	69,1	50−69,1 = 19,1	$(50-69,1)^2 = (19,1)^2 = 364,81$
Nov	66	52,5	66−52,5 = 13,5	$(66-52,2)^2 = (13,5)^2 = 182,25$
Des	35	60	35−60 = 25	$(35-60)^2 = (25)^2 = 625$
Jumlah			299,4	12 863,68

$$MAD = \frac{\sum_{i=1}^{n} |A_t - F_t|}{n} = \frac{299,4}{9} = 33,267$$

$$MSE = \frac{\sum_{t=1}^{n} |A_t - F_t|}{n} = \frac{12.863,68}{9} = 1.429,297$$