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Data Kedatangan Nasabah

NO	HARI	TANGGAL	PERIODE WAKTU (PER JAM)	KEDATANGAN (ORANG)
1	KAMIS	1 MARET 2012	08.00-09.00	35
			09.00-10.00	60
			10.00-11.00	66
			11.00-12.00	79
			12.00-13.00	29
			13.00-14.00	40
			14.00-15.00	53
			15.00-16.00	19
2	JUMAT	2 MARET 2012	07.30-08.00	25
			08.00-09.00	62
			09.00-10.00	70
			10.00-11.00	95
			11.00-12.00	28
			12.00-13.00	48
			13.00-14.00	60
			14.00-15.00	56
3	SENIN	5 MARET 2012	08.00-09.00	43
			09.00-10.00	74
			10.00-11.00	61
			11.00-12.00	23
			12.00-13.00	16
			13.00-14.00	59
			14.00-15.00	62
			15.00-16.00	20
4	SELASA	6 MARET 2012	08.00-09.00	39
			09.00-10.00	40
			10.00-11.00	65
			11.00-12.00	45
			12.00-13.00	27
			13.00-14.00	60
			14.00-15.00	44

			15.00-16.00	20
5	RABU	7 MARET 2012	08.00-09.00	44
			09.00-10.00	32
			10.00-11.00	35
			11.00-12.00	41
			12.00-13.00	25
			13.00-14.00	52
			14.00-15.00	30
			15.00-16.00	6

07.30-08.00

Data		Results	value	minute
Arrival rate (λ)	5	Average server utilization(ρ)	0.0625	
Service rate (μ)	20	Average number of customers in the queue(L_q)	0	
Number of servers(s)	4	Average number of customers in the system(L)	0.25	
		Average waiting time in the queue(W_q)	0	0.0001
		Average time in the system(W_s)	0.05	3.0001
		Probability (% of time) system is empty (P_0)	0.7788	

08.00-09.00

Data		Results	value	minute
Arrival rate (λ)	45	Average server utilization(ρ)	0.5625	
Service rate (μ)	20	Average number of customers in the queue(L_q)	0.3101	
Number of servers(s)	4	Average number of customers in the system(L)	2.5601	
		Average waiting time in the queue(W_q)	0.0069	0.4134
		Average time in the system(W_s)	0.0569	3.4134
		Probability (% of time) system is empty (P_0)	0.0988	

09.00-10.00

Data		Results	value	minute
Arrival rate (λ)	55	Average server utilization(ρ)	0.6875	
Service rate (μ)	20	Average number of customers in the queue(L_q)	0.9008	
Number of servers(s)	4	Average number of customers in the system(L)	3.6508	
		Average waiting time in the queue(W_q)	0.0164	0.9827
		Average time in the system(W_s)	0.0664	3.9827
		Probability (% of time) system is empty (P_0)	0.0537	

10.00-11.00

Data		Results	value	minute
Arrival rate (λ)	64	Average server utilization(ρ)	0.8	
Service rate (μ)	20	Average number of customers in the queue(L_q)	2.3857	
Number of servers(s)	4	Average number of customers in the system(L)	5.5857	
		Average waiting time in the queue(W_q)	0.0373	2.2366
		Average time in the system(W_s)	0.0873	5.2366
		Probability (% of time) system is empty (P_0)	0.0273	

11.00-12.00

Data		Results	value	minute
Arrival rate (λ)	43	Average server utilization(ρ)	0.5375	
Service rate (μ)	20	Average number of customers in the queue(L_q)	0.2474	
Number of servers(s)	4	Average number of customers in the system(L)	2.3974	
		Average waiting time in the queue(W_q)	0.0058	0.3452
		Average time in the system(W_s)	0.0558	3.3452
		Probability (% of time) system is empty (P_0)	0.1106	

12.00-13.00

Data		Results	value	minute
Arrival rate (λ)	29	Average server utilization(ρ)	0.3625	
Service rate (μ)	20	Average number of customers in the queue(L_q)	0.0382	
Number of servers(s)	4	Average number of customers in the system(L)	1.4882	
		Average waiting time in the queue(W_q)	0.0013	0.0791
		Average time in the system(W_s)	0.0513	3.0791
		Probability (% of time) system is empty (P_0)	0.2327	

13.00-14.00

Data		Results	value	minute
Arrival rate (λ)	54	Average server utilization(ρ)	0.6750	
Service rate (μ)	20	Average number of customers in the queue(L_q)	0.8115	
Number of servers(s)	4	Average number of customers in the system(L)	3.5115	
		Average waiting time in the queue(W_q)	0.0150	0.9016
		Average time in the system(W_s)	0.0650	3.9016
		Probability (% of time) system is empty (P_0)	0.0573	

14.00-15.00

Data		Results	value	minute
Arrival rate (λ)	49	Average server utilization(ρ)	0.6125	
Service rate (μ)	20	Average number of customers in the queue(L_q)	0.4793	
Number of servers(s)	4	Average number of customers in the system(L)	2.9293	
		Average waiting time in the queue(W_q)	0.0098	0.5869
		Average time in the system(W_s)	0.0598	3.5869
		Probability (% of time) system is empty (P_0)	0.0783	

15.00-16.00

Data		Results	value	minute
Arrival rate (λ)	15	Average server utilization(ρ)	0.1875	
Service rate (μ)	20	Average number of customers in the queue(L_q)	0.0018	
Number of servers(s)	4	Average number of customers in the system(L)	0.7518	
		Average waiting time in the queue(W_q)	0.0001	0.0071
		Average time in the system(W_s)	0.0501	3.0071
		Probability (% of time) system is empty (P_0)	0.4722	

07.30-08.00

Data		Results	value	minute
Arrival rate (λ)	5.0000	Average server utilization(ρ)	0.0833	
Service rate (μ)	20.0000	Average number of customers in the queue(L_q)	0.0002	
Number of servers(s)	3.0000	Average number of customers in the system(L)	0.2502	
		Average waiting time in the queue(W_q)	0.0000	0.0024
		Average time in the system(W_s)	0.0500	3.0024
		Probability (% of time) system is empty (P_0)	0.7788	

08.00-09.00

Data		Results	value	minute
Arrival rate (λ)	45	Average server utilization(ρ)	0.75	
Service rate (μ)	20	Average number of customers in the queue(L_q)	1.7033	
Number of servers(s)	3	Average number of customers in the system(L)	3.9533	
		Average waiting time in the queue(W_q)	0.0379	2,271
		Average time in the system(W_s)	0.0879	5.271
		Probability (% of time) system is empty (P_0)	0.0748	

09.00-10.00

Data		Results	value	minute
Arrival rate (λ)	55	Average server utilization(ρ)	0.9167	
Service rate (μ)	20	Average number of customers in the queue(L_q)	9.3136	
Number of servers(s)	3	Average number of customers in the system(L)	12.0636	
		Average waiting time in the queue(W_q)	0.1693	10.1603
		Average time in the system(W_s)	0.2193	13.1603
		Probability (% of time) system is empty (P_0)	0.0204	

10.00-11.00

Data		Results	value	minute
Arrival rate (λ)	64	Average server utilization(ρ)	1.067	
Service rate (μ)	20	Average number of customers in the queue(L_q)	12.9072	
Number of servers(s)	3	Average number of customers in the system(L)	16.3072	
		Average waiting time in the queue(W_q)	0.2017	12.1005
		Average time in the system(W_s)	0.2548	15,288
		Probability (% of time) system is empty (P_0)	0,01	

11.00-12.00

Data		Results	value	minute
Arrival rate (λ)	43	Average server utilization(ρ)	0.7167	
Service rate (μ)	20	Average number of customers in the queue(L_q)	1.3078	
Number of servers(s)	3	Average number of customers in the system(L)	3.4578	
		Average waiting time in the queue(W_q)	0.0304	1.8248
		Average time in the system(W_s)	0.0804	4.8248
		Probability (% of time) system is empty (P_0)	0.0884	

12.00-13.00

Data		Results	value	minute
Arrival rate (λ)	29	Average server utilization(ρ)	0.4833	
Service rate (μ)	20	Average number of customers in the queue(L_q)	0.2051	
Number of servers(s)	3	Average number of customers in the system(L)	1.6551	
		Average waiting time in the queue(W_q)	0.0071	0.4244
		Average time in the system(W_s)	0.0571	3.4244
		Probability (% of time) system is empty (P_0)	0.2230	

13.00-14.00

Data		Results	value	minute
Arrival rate (λ)	54	Average server utilization(ρ)	0.9	
Service rate (μ)	20	Average number of customers in the queue(L_q)	7.3535	
Number of servers(s)	3	Average number of customers in the system(L)	10.0535	
		Average waiting time in the queue(W_q)	0.1362	8.1706
		Average time in the system(W_s)	0.1862	11.1706
		Probability (% of time) system is empty (P_0)	0.0249	

14.00-15.00

Data		Results	value	minute
Arrival rate (λ)	49	Average server utilization(ρ)	0.8167	
Service rate (μ)	20	Average number of customers in the queue(L_q)	3.0047	
Number of servers(s)	3	Average number of customers in the system(L)	5.4547	
		Average waiting time in the queue(W_q)	0.0613	3.6792
		Average time in the system(W_s)	0.1113	6.6792
		Probability (% of time) system is empty (P_0)	0.0505	

15.00-16.00

Data		Results	value	minute
Arrival rate (λ)	15	Average server utilization(ρ)	0.25	
Service rate (μ)	20	Average number of customers in the queue(L_q)	0.0147	
Number of servers(s)	3	Average number of customers in the system(L)	0.7647	
		Average waiting time in the queue(W_q)	0.0010	0.0588
		Average time in the system(WS)	0.0510	3.0588
		Probability (% of time) system is empty (P_0)	0.4706	