Input Model Berdasarkan Kebijakan Perusahaan Saat Ini :

```
************************************************************
                        Locations
************************************************************

  Name           Cap Units Stats       Rules      Cost
  -------------- --- ----- ----------- ---------- ------------
  Shipping_Pusat inf 1     Time Series Oldest, ,
  Surabaya       inf 1     Time Series Oldest, ,
  Medan          inf 1     Time Series Oldest, ,
  Bandung        inf 1     Time Series Oldest, ,
  DI_Yogyakarta  inf 1     Time Series Oldest, ,
  Denpasar       inf 1     Time Series Oldest, ,
  Palangkaraya   inf 1     Time Series Oldest, ,
  Palu           inf 1     Time Series Oldest, ,
  Ternate        inf 1     Time Series Oldest, ,
  Ambon          inf 1     Time Series Oldest, ,
  Jayapura       inf 1     Time Series Oldest, ,
  Kupang         inf 1     Time Series Oldest, ,
  Padang         inf 1     Time Series Oldest, ,
  Jakarta        inf 1     Time Series Oldest, ,



************************************************************
                        Entities
************************************************************
  Name                           Speed (fpm)  Stats       Cost
  ------------------------------ ------------ ----------- --------
  Pesanan_Sby                    150          Time Series
  Truck_Sby                      150          Time Series
  Demand_Per_Periode_Dealer_Sby  150          Time Series
  Pengiriman_ke_Dealer_Sby       150          Time Series
  Pesanan_Bdg                    150          Time Series
  Truck_Bdg                      150          Time Series
  Demand_Per_Periode_Dealer_Bdg  150          Time Series
  Pengiriman_ke_Dealer_Bdg       150          Time Series
  Pesanan_Jkt                    150          Time Series
  Truck_Jkt                      150          Time Series
  Demand_Per_Periode_Dealer_Jkt  150          Time Series
  Pengiriman_ke_Dealer_Jkt       150          Time Series
  Pesanan_Yogya                  150          Time Series
  Truck_Yogya                    150          Time Series
  Demand_Per_Periode_Dealer_Yogy 150          Time Series
  Pengiriman_ke_Dealer_Yogya     150          Time Series
  Pesanan_Palangkaraya           150          Time Series
  Truck_Palangkaraya             150          Time Series
  Demand_Per_Periode_Dealer_Pala 150          Time Series
  Pengiriman_ke_Dealer_Palangkar 150          Time Series
  Pesanan_Medan                  150          Time Series
  Truck_Medan                    150          Time Series
  Demand_Per_Periode_Dealer_Meda 150          Time Series
  Pengiriman_ke_Dealer_Medan     150          Time Series
  Pesanan_Padang                 150          Time Series
```

****
Entities
****

Name	Speed (fpm)	Stats	Cost
Truck_Padang	150	Time Series	
Demand_Per_Periode_Dealer_Pada	150	Time Series	
Pengiriman_ke_Dealer_Padang	150	Time Series	
Pesanan_Jayapura	150	Time Series	
Truck_Jayapura	150	Time Series	
Demand_Per_Periode_Dealer_Jaya	150	Time Series	
Pengiriman_ke_Dealer_Jayapura	150	Time Series	
Pesanan_Palu	150	Time Series	
Truck_Palu	150	Time Series	
Demand_Per_Periode_Dealer_Palu	150	Time Series	
Pengiriman_ke_Dealer_Palu	150	Time Series	
Pesanan_Kupang	150	Time Series	
Truck_Kupang	150	Time Series	
Demand_Per_Periode_Dealer_Kupng	150	Time Series	
Pengiriman_ke_Dealer_Kupang	150	Time Series	
Pesanan_Ternate	150	Time Series	
Truck_Ternate	150	Time Series	
Demand_Per_Periode_Dealer_Tern	150	Time Series	
Pengiriman_ke_Dealer_Ternate	150	Time Series	
Pesanan_Ambon	150	Time Series	
Truck_Ambon	150	Time Series	
Demand_Per_Periode_Dealer_Ambo	150	Time Series	
Pengiriman_ke_Dealer_Ambon	150	Time Series	
Pesanan_Denpasar	150	Time Series	
Truck_Denpasar	150	Time Series	
Demand_Per_Periode_Dealer_Denp	150	Time Series	
Pengiriman_ke_Dealer_Denpasar	150	Time Series	
Produksi_Selesai	150	Time Series	
update_period	150	Time Series	
del_awal	150	Time Series	

****
* Arrivals *
****

Entity	Location	Qty each	First Time	Occurrences	Frequency	Logic
del_awal	Shipping_Pusat	1	0	Leadtime	10	INC Inv_MD_Sby,1000
update_period	Shipping_Pusat	1		INF	Periode_Pemesanan	inc j
Produksi_Selesai	Shipping_Pusat	1	24 min	INF	24 min	
Pesanan_Sby	Surabaya	1	0	inf	Periode_Pemesanan	INC Ordering_Sby
Pesanan_Bdg	Bandung	1	0	INF	Periode_Pemesanan	INC Ordering_Bdg
Pesanan_Jkt	Jakarta	1	0	INF	Periode_Pemesanan	INC Ordering_Jkt
Pesanan_Yogya	DI_Yogyakarta	1	0	INF	Periode_Pemesanan	INC Ordering_Yogya
Pesanan_Palangkaraya	Palangkaraya	1	0	INF	Periode_Pemesanan	INC Ordering_Palangkaraya
Pesanan_Medan	Medan	1	0	INF	Periode_Pemesanan	INC Ordering_Medan
Pesanan_Padang	Padang	1	0	INF	Periode_Pemesanan	INC Ordering_Padang
Pesanan_Jayapura	Jayapura	1	0	INF	Periode_Pemesanan	INC Ordering_Jayapura
Pesanan_Palu	Palu	1	0	INF	Periode_Pemesanan	INC Ordering_Palu
Pesanan_Kupang	Kupang	1	0	INF	Periode_Pemesanan	INC Ordering_Kupang
Pesanan_Ternate	Ternate	1	0	INF	Periode_Pemesanan	INC Ordering_Ternate
Pesanan_Ambon	Ambon	1	0	INF	Periode_Pemesanan	INC Ordering_Ambon
Pesanan_Denpasar	Denpasar	1	0	INF	Periode_Pemesanan	INC Ordering_Denpasar
Pengiriman_ke_Dealer_Medan	Medan	1	0	INF	10	
Pengiriman_ke_Dealer_Padang	Padang	1	0	INF	10	
Pengiriman_ke_Dealer_Jkt	Jakarta	1	0	INF	10	
Pengiriman_ke_Dealer_Sby	Surabaya	1	0	INF	10	
Pengiriman_ke_Dealer_Bdg	Bandung	1	0	INF	10	
Pengiriman_ke_Dealer_Yogya	DI_Yogyakarta	1	0	INF	10	
Pengiriman_ke_Dealer_Denpasar	Denpasar	1	0	INF	10	
Pengiriman_ke_Dealer_Kupang	Kupang	1	0	INF	10	
Pengiriman_ke_Dealer_Palangkar	Palangkaraya	1	0	INF	10	
Pengiriman_ke_Dealer_Palu	Palu	1	0	INF	10	
Pengiriman_ke_Dealer_Ambon	Ambon	1	0	INF	10	
Pengiriman_ke_Dealer_Ternate	Ternate	1	0	INF	10	
Pengiriman_ke_Dealer_Jayapura	Jayapura	1	0	INF	10	
Pengiriman_ke_Dealer_Medan	Medan	1	0	INF	10	
Pengiriman_ke_Dealer_Padang	Padang	1	0	INF	10	
Pengiriman_ke_Dealer_Jkt	Jakarta	1	0	INF	10	
Pengiriman_ke_Dealer_Sby	Surabaya	1	0	INF	10	
Pengiriman_ke_Dealer_Bdg	Bandung	1	0	INF	10	
Pengiriman_ke_Dealer_Yogya	DI_Yogyakarta	1	0	INF	10	
Pengiriman_ke_Dealer_Denpasar	Denpasar	1	0	INF	10	
Pengiriman_ke_Dealer_Kupang	Kupang	1	0	INF	10	
Pengiriman_ke_Dealer_Palangkar	Palangkaraya	1	0	INF	10	
Pengiriman_ke_Dealer_Palu	Palu	1	0	INF	10	
Pengiriman_ke_Dealer_Ambon	Ambon	1	0	INF	10	
Pengiriman_ke_Dealer_Ternate	Ternate	1	0	INF	10	
Pengiriman_ke_Dealer_Jayapura	Jayapura	1	0	INF	10	
Demand_Per_Periode_Dealer_Meda	Medan	1	0	INF	10	
Demand_Per_Periode_Dealer_Pada	Padang	1	0	INF	10	
Demand_Per_Periode_Dealer_Jkt	Jakarta	1	0	INF	10	
Demand_Per_Periode_Dealer_Bdg	Bandung	1	0	INF	10	
Demand_Per_Periode_Dealer_Sby	Surabaya	1	0	INF	10	
Demand_Per_Periode_Dealer_Yogy	DI_Yogyakarta	1	0	INF	10	
Demand_Per_Periode_Dealer_Denp	Denpasar	1	0	INF	10	
Demand_Per_Periode_Dealer_Kupa	Kupang	1	0	INF	10	
Demand_Per_Periode_Dealer_Pala	Palangkaraya	1	0	INF	10	
Demand_Per_Periode_Dealer_Palu	Palu	1	0	INF	10	
Demand_Per_Periode_Dealer_Tern	Ternate	1	0	INF	10	
Demand_Per_Periode_Dealer_Ambo	Ambon	1	0	INF	10	
Demand_Per_Periode_Dealer_Jaya	Jayapura	1	0	INF	10	

****

Variables (global)

****

ID	Type	Initial value	Stats
Jml_Q_Sby	Integer	0	Time Series
Jml_Q_Sby_2	Integer	0	Time Series
JmlDelivery_Sby	Integer	0	Time Series
Jml_Q_Bdg	Integer	0	Time Series
Jml_Q_Bdg_2	Integer	0	Time Series
JmlDelivery_Bdg	Integer	0	Time Series
Jml_Q_Yogya	Integer	0	Time Series
Jml_Q_Yogya_2	Integer	0	Time Series
JmlDelivery_Yogya	Integer	0	Time Series
Inv_Shipping_Pusat	Integer	0	Time Series
j	Integer	1	Time Series
Demand_Per_Periode_Sby	Integer	0	Time Series
Jml_Q_Medan_2	Integer	0	Time Series
Jml_Q_Medan	Integer	0	Time Series
JmlDelivery_Medan	Integer	0	Time Series
Jml_Q_Padang	Integer	0	Time Series
Jml_Q_Padang_2	Integer	0	Time Series

****
Variables (global)
****

JmlDelivery_Padang	Integer	0	Time Series
Jml_Q_Denpasar	Integer	0	Time Series
Jml_Q_Denpasar_2	Integer	0	Time Series
JmlDelivery_Denpasar	Integer	0	Time Series
Jml_Q_Kupang	Integer	0	Time Series
Jml_Q_Kupang_2	Integer	0	Time Series
JmlDelivery_Kupang	Integer	0	Time Series
Jml_Q_Palangkaraya	Integer	0	Time Series
Jml_Q_Palangkaraya_2	Integer	0	Time Series
JmlDelivery_Palangkaraya	Integer	0	Time Series
Jml_Q_Palu	Integer	0	Time Series
Jml_Q_Palu_2	Integer	0	Time Series
JmlDelivery_Palu	Integer	0	Time Series
Jml_Q_Ternate	Integer	0	Time Series
Jml_Q_Ternate_2	Integer	0	Time Series
JmlDelivery_Ternate	Integer	0	Time Series
Jml_Q_Ambon	Integer	0	Time Series
Jml_Q_Ambon_2	Integer	0	Time Series
JmlDelivery_Ambon	Integer	0	Time Series
Jml_Q_Jayapura	Integer	0	Time Series
Jml_Q_Jayapura_2	Integer	0	Time Series
JmlDelivery_Jayapura	Integer	0	Time Series
Jml_Q_Jkt	Integer	0	Time Series
Jml_Q_Jkt_2	Integer	0	Time Series
JmlDelivery_Jkt	Integer	0	Time Series
Inv_MD_Medan	Integer	610	Time Series
Inv_MD_Padang	Integer	685	Time Series
Inv_MD_Jkt	Integer	1325	Time Series
Inv_MD_Bdg	Integer	920	Time Series
Inv_MD_Yogya	Integer	1100	Time Series
Inv_MD_Sby	Integer	1250	Time Series
Inv_MD_Denpasar	Integer	250	Time Series
Inv_MD_ Kupang	Integer	55	Time Series
Inv_MD_Palangkaraya	Integer	65	Time Series
Inv_MD_Palu	Integer	70	Time Series
Inv_MD_Ambon	Integer	60	Time Series
Inv_MD_Ternate	Integer	35	Time Series
Inv_MD_Jayapura	Integer	60	Time Series
Stok_Medan	Integer	0	Time Series
Stok_Padang	Integer	0	Time Series
Stok_Jkt	Integer	0	Time Series
Stok_Bdg	Integer	0	Time Series

****

Variables (global)

****

Stok_Sby	Integer	0	Time Series
Stok_Yogya	Integer	0	Time Series
Stok_Denpasar	Integer	0	Time Series
Stok_ Kupang	Integer	0	Time Series
Stok_Palangkaraya	Integer	0	Time Series
Stok_Palu	Integer	0	Time Series
Stok_Ternate	Integer	0	Time Series
Stok_Ambon	Integer	0	Time Series
Stok_Jayapura	Integer	0	Time Series
Backorder_Medan	Integer	0	Time Series
Backorder_Padang	Integer	0	Time Series
Backorder_Jkt	Integer	0	Time Series
Backorder_Bdg	Integer	0	Time Series
Backorder_Sby	Integer	0	Time Series
Backorder_Yogya	Integer	0	Time Series
Backorder_Denpasar	Integer	0	Time Series
Backorder_ Kupang	Integer	0	Time Series
Backorder_Palangkaraya	Integer	0	Time Series
Backorder_Palu	Integer	0	Time Series
Backorder_Ternate	Integer	0	Time Series
Backorder_Ambon	Integer	0	Time Series
Backorder_Jayapura	Integer	0	Time Series
Demand_Per_Periode_Medan	Integer	0	Time Series
Demand_Per_Periode_Padang	Integer	0	Time Series
Demand_Per_Periode_Jkt	Integer	0	Time Series
Demand_Per_Periode_Bdg	Integer	0	Time Series
Demand_Per_Periode_Yogya	Integer	0	Time Series
Demand_Per_Periode_ Denpasar	Integer	0	Time Series
Demand_Per_Periode_ Kupang	Integer	0	Time Series
Demand_Per_Periode_ Palangkaraya	Integer	0	Time Series
Demand_Per_Periode_Palu	Integer	0	Time Series
Demand_Per_Periode_Ambon	Integer	0	Time Series
Demand_Per_Periode_Ternate	Integer	0	Time Series
Demand_Per_Periode_ Jayapura	Integer	0	Time Series
Ordering_Medan	Integer	0	Time Series
Ordering_Padang	Integer	0	Time Series
Ordering_Jkt	Integer	0	Time Series
Ordering_Bdg	Integer	0	Time Series
Ordering_Yogya	Integer	0	Time Series

****
Variables (global)
****

Ordering_Sby	Integer	0	Time Series
Ordering_Denpasar	Integer	0	Time Series
Ordering_ Kupang	Integer	0	Time Series
Ordering_Palangkaraya	Integer	0	Time Series
Ordering_Palu	Integer	0	Time Series
Ordering_Ambon	Integer	0	Time Series
Ordering_Ternate	Integer	0	Time Series
Ordering_Jayapura	Integer	0	Time Series

****
Macros
****

ID	Text
Periode_Pemesanan	10
Leadtime	20
Buffer_Stock_Days	3

```
*****************************************************************************
*                          Processing                                       *
*****************************************************************************
```

Entity	Location	Process: Operation	Blk	Routing: Output	Destination	Rule	Move Logic
update_period	Shipping_Pusat		1	update_period	EXIT	FIRST 1	
del_awal	Shipping_Pusat		1	del_awal	EXIT	FIRST 1	

Produksi_Selesai	Shipping_Pusat	IF (CALHOUR() >= 7) AND (CALHOUR() <= 15) THEN
		{
		INC Inv_Shipping_Pusat, 84
		}					

			1	Produksi_Selesai	EXIT	FIRST 1	

Pesanan_Medan	Medan	Jml_Q_Medan = (194*Periode_Pemesanan)-Inv_MD_Medan + (Buffer_Stock_Days * 194)
		IF Jml_Q_Medan < (Buffer_Stock_Days * 194) THEN
		{
		Jml_Q_Medan = (Buffer_Stock_Days * 194)
		}
		Jml_Q_Medan_2 = Jml_Q_Medan					

			1	Pesanan_Medan	Shipping_Pusat	FIRST 1	MOVE FOR 0.5 DAY

Pesanan_Medan	Shipping_Pusat	Jml_Del_Medan[j]=TRUNC(Jml_Q_Medan/84)
		IF Jml_Del_Medan[j] <> 0 THEN
		{
		INT i = 0
		DO
		{
		INC i
		WAIT Periode_Pemesanan/Jml_Del_Medan[j]
		ORDER 1 Truck_Medan TO Shipping_Pusat
		}
		UNTIL i >= Jml_Del_Medan[j]
		}					

			1	Pesanan_Medan	EXIT	FIRST 1	
Truck_Medan	Shipping_Pusat	wait Leadtime WAIT 1 HR					
			1	Truck_Medan	Medan	FIRST 1	MOVE FOR 30 HR

Truck_Medan	Medan	WAIT 30 MIN
		INC Inv_MD_Medan, 84
		IF Inv_MD_Medan >= 0 THEN
		{
		Stok_Medan = Inv_MD_Medan
		}
		ELSE
		{
		Backorder_Medan = Inv_MD_Medan
		}					

```
                                    1    Truck_Medan                    EXIT          FIRST 1
Demand_Per_Periode_Dealer_Meda Medan
                                    Demand_Per_Periode_Medan = N(2208, 565.39)
                                    IF Demand_Per_Periode_Medan < 0 THEN
                                    {
                                     Demand_Per_Periode_Medan = 0
                                    }

                                    1    Demand_Per_Periode_Dealer_Meda EXIT          FIRST 1
Pengiriman_ke_Dealer_Medan     Medan
                                    1    Pengiriman_ke_Dealer_Medan     EXIT          FIRST 1  DEC Inv_MD_Medan, Demand_Per_Periode
Pesanan_Padang                 Padang
                                    Jml_Q_Padang = (31*Periode_Pemesanan) - Inv_MD_Padang + (Buffer_Stock_Days * 31)
                                    IF Jml_Q_Padang < (Buffer_Stock_Days * 31) THEN
                                    {
                                    Jml_Q_Padang = (Buffer_Stock_Days * 31)
                                    }
                                    Jml_Q_Padang_2 = Jml_Q_Padang
                                    1    Pesanan_Padang                 Shipping_Pusat FIRST 1  MOVE FOR 0.5 DAY
Pesanan_Padang                 Shipping_Pusat Jml_Del_Padang[j]=TRUNC(Jml_Q_Padang/84)
                                    IF Jml_Del_Padang[j] <> 0 THEN
                                    {
                                    INT i =  0
                                    DO
                                    {
                                     INC i
                                     WAIT Periode_Pemesanan/Jml_Del_Padang[j]
                                     ORDER 1 Truck_Padang TO Shipping_Pusat
                                    }
                                     UNTIL i >= Jml_Del_Padang[j]
                                    },
                                     1    Pesanan_Padang                 EXIT          FIRST 1
Truck_Padang                   Shipping_Pusat wait Leadtime
                                     WAIT 1 HR
                                     1    Truck_Padang                   Padang        FIRST 1  MOVE FOR 22 HR



Truck_Padang                   Padang         WAIT 30 MIN
                                              INC Inv_MD_Padang, 84
                                              IF Inv_MD_Padang >= 0 THEN
                                              {
                                               Stok_Padang = Inv_MD_Padang
                                              }
                                               ELSE
                                              {
                                               Backorder_Padang = Inv_MD_Padang
                                              }
```

```
                                    1    Truck_Padang                    EXIT          FIRST 1
Demand_Per_Periode_Dealer_Pada Padang
                                    Demand_Per_Periode_Padang = N(351, 90.20)
                                    IF Demand_Per_Periode_Padang < 0 THEN
                                    {
                                     Demand_Per_Periode_Padang = 0
                                    }

                                    1    Demand_Per_Periode_Dealer_Pada EXIT          FIRST 1
Pengiriman_ke_Dealer_Padang    Padang
                                    1    Pengiriman_ke_Dealer_Padang    EXIT          FIRST 1  DEC Inv_MD_Padang, Demand_Per_Period
Pesanan_Jkt                    Jakarta
                                    Jml_Q_Jkt = (273*Periode_Pemesanan) - Inv_MD_Jkt + (Buffer_Stock_Days * 273)
                                    IF Jml_Q_Jkt < (Buffer_Stock_Days * 273) THEN
                                    {
                                    Jml_Q_Jkt = (Buffer_Stock_Days * 273)
                                    }
                                    Jml_Q_Jkt_2 = Jml_Q_Jkt
                                    1    Pesanan_Jkt                    Shipping_Pusat FIRST 1  MOVE FOR 0.5 DAY
Pesanan_Jkt                    Shipping_Pusat
                                    Jml_Del_Jkt[j]=TRUNC(Jml_Q_Jkt/84)
                                    IF Jml_Del_Jkt[j] <> 0 THEN
                                    {
                                    INT i =  0
                                    DO
                                    {
                                     INC i
                                     WAIT Periode_Pemesanan/Jml_Del_Jkt[j]
                                     ORDER 1 Truck_Jkt TO Shipping_Pusat
                                    }
                                     UNTIL i >= Jml_Del_Jkt[j]
                                    }
                                    1    Pesanan_Jkt                    EXIT          FIRST 1
Truck_Jkt                       Shipping_Pusat wait Leadtime
                                     WAIT 1 HR
                                       1    Truck_Jkt                       Jakarta        FIRST 1  MOVE FOR 2.5 HR


Truck_Jkt                       Jakarta
                                     WAIT 30 MIN
                                     INC Inv_MD_Jkt, 84
                                     IF Inv_MD_Jkt >= 0 THEN
                                     {
                                      Stok_Jkt = Inv_MD_Jkt
                                     }
                                      ELSE
                                     {
                                      Backorder_Jkt = Inv_MD_Jkt
                                     }
```

```
                                        1    Truck_Jkt                      EXIT           FIRST 1
Demand_Per_Periode_Dealer_Jkt  Jakarta   Demand_Per_Periode_Jkt = N(3111, 796.68)
                                        IF Demand_Per_Periode_Jkt < 0 THEN
                                        {
                                         Demand_Per_Periode_Jkt = 0
                                        }

                                        1    Demand_Per_Periode_Dealer_Jkt  EXIT           FIRST 1
Pengiriman_ke_Dealer_Jkt       Jakarta  1    Pengiriman_ke_Dealer_Jkt       EXIT           FIRST 1  DEC Inv_MD_Jkt, Demand_Per_Periode_
Pesanan_Bdg                    Bandung  Jml_Q_Bdg = (256*Periode_Pemesanan) - Inv_MD_Bdg + (Buffer_Stock_Days * 256)
                                        IF Jml_Q_Bdg < (Buffer_Stock_Days * 256) THEN
                                        {
                                        Jml_Q_Bdg = (Buffer_Stock_Days * 256)
                                        }
                                        Jml_Q_Bdg_2 = Jml_Q_Bdg
                                        1    Pesanan_Bdg                    Shipping_Pusat FIRST 1  MOVE FOR 0.5 DAY
Pesanan_Bdg                    Shipping_Pusat Jml_Del_Bdg[j]=TRUNC(Jml_Q_Bdg/84)
                                        IF Jml_Del_Bdg[j] <> 0 THEN
                                        {
                                        INT i =  0
                                        DO
                                        {
                                         INC i
                                         WAIT Periode_Pemesanan/Jml_Del_Bdg[j]
                                         ORDER 1 Truck_Bdg TO Shipping_Pusat
                                        }
                                         UNTIL i >= Jml_Del_Bdg[j]
                                        }

                                          1    Pesanan_Bdg                    EXIT           FIRST 1
Truck_Bdg                      Shipping_Pusat wait Leadtime
                                        WAIT 1 HR
                                          1    Truck_Bdg                      Bandung        FIRST 1  MOVE FOR 5 HR


Truck_Bdg                      Bandung  WAIT 30 MIN
                                        INC Inv_MD_Bdg, 84
                                        IF Inv_MD_Bdg >= 0 THEN
                                        {
                                         Stok_Bdg = Inv_MD_Bdg
                                        }
                                         ELSE
                                        {
                                         Backorder_Bdg = Inv_MD_Bdg
                                        }
```

```
                                        1    Truck_Bdg                        EXIT           FIRST 1
Demand_Per_Periode_Dealer_Bdg  Bandung   Demand_Per_Periode_Bdg = N(2911, 744.71)
                                        IF Demand_Per_Periode_Bdg < 0 THEN
                                        {
                                         Demand_Per_Periode_Bdg = 0
                                        }

                                        1    Demand_Per_Periode_Dealer_Bdg  EXIT           FIRST 1
Pengiriman_ke_Dealer_Bdg       Bandung  1    Pengiriman_ke_Dealer_Bdg       EXIT           FIRST 1  DEC Inv_MD_Bdg, Demand_Per_Periode_B
Pesanan_Sby                    Surabaya Jml_Q_Sby = (383*Periode_Pemesanan) - Inv_MD_Sby + (Buffer_Stock_Days * 383)
                                        IF Jml_Q_Sby < (Buffer_Stock_Days * 383) THEN
                                        {
                                        Jml_Q_Sby = (Buffer_Stock_Days * 383)
                                        }
                                        Jml_Q_Sby_2 = Jml_Q_Sby
                                        1    Pesanan_Sby                    Shipping_Pusat FIRST 1  MOVE FOR 0.5 DAY
Pesanan_Sby                    Shipping_Pusat Jml_Del_Sby[j]=TRUNC(Jml_Q_Sby/84)
                                        IF Jml_Del_Sby[j] <> 0 THEN
                                        {
                                        INT i =  0
                                        DO
                                        {
                                         INC i
                                         WAIT Periode_Pemesanan/Jml_Del_Sby[j]
                                         ORDER 1 Truck_Sby TO Shipping_Pusat
                                        }
                                         UNTIL i >= Jml_Del_Sby[j]
                                        }

                                          1    Pesanan_Sby                    EXIT           FIRST 1
Truck_Sby                      Shipping_Pusat wait Leadtime
                                          WAIT 1 HR
                                          1    Truck_Sby                      Surabaya       FIRST 1  MOVE FOR 15 HR


Truck_Sby                      Surabaya  WAIT 30 MIN
                                         INC Inv_MD_Sby, 84
                                         IF Inv_MD_Sby >= 0 THEN
                                         {
                                          Stok_Sby = Inv_MD_Sby
                                         }
                                          ELSE
                                         {
                                          Backorder_Sby = Inv_MD_Sby
                                         }
```

```
                                    1    Truck_Sby                      EXIT           FIRST 1
Demand_Per_Periode_Dealer_Sby  Surabaya       Demand_Per_Periode_Sby = N(4367, 1117.66)
                               IF Demand_Per_Periode_Sby < 0 THEN
                               {
                                Demand_Per_Periode_Sby = 0
                               }

                                    1    Demand_Per_Periode_Dealer_Sby  EXIT           FIRST 1
Pengiriman_ke_Dealer_Sby       Surabaya     1    Pengiriman_ke_Dealer_Sby       EXIT           FIRST 1  DEC Inv_MD_Sby, Demand_Per_Periode_S
Pesanan_Yogya                  DI_Yogyakarta  Jml_Q_Yogya = (93*Periode_Pemesanan) - Inv_MD_Yogya + (Buffer_Stock_Days * 93)
                               IF Jml_Q_Yogya < (Buffer_Stock_Days * 93) THEN
                               {
                               Jml_Q_Yogya = (Buffer_Stock_Days * 93)
                               }
                               Jml_Q_Yogya_2 = Jml_Q_Yogya
                                    1    Pesanan_Yogya                  Shipping_Pusat FIRST 1  MOVE FOR 0.5 DAY
Pesanan_Yogya                  Shipping_Pusat Jml_Del_Yogya[j]=TRUNC(Jml_Q_Yogya/84)
                               IF Jml_Del_Yogya[j] <> 0 THEN
                               {
                               INT i =  0
                               DO
                               {
                                INC i
                                WAIT Periode_Pemesanan/Jml_Del_Yogya[j]
                                ORDER 1 Truck_Yogya TO Shipping_Pusat
                               }
                                UNTIL i >= Jml_Del_Yogya[j]
                               }    1    Pesanan_Yogya                  EXIT           FIRST 1
Truck_Yogya                     Shipping_Pusat wait Leadtime
                                WAIT 1 HR
                                     1    Truck_Yogya                      DI_Yogyakarta  FIRST 1  MOVE FOR 12 HR



Truck_Yogya                    DI_Yogyakarta  WAIT 30 MIN
                               INC Inv_MD_Yogya, 84
                               IF Inv_MD_Yogya >= 0 THEN
                               {
                                Stok_Yogya = Inv_MD_Yogya
                               }
                                ELSE
                               {
                                Backorder_Yogya = Inv_MD_Yogya
                               }
```

```
                                        1    Truck_Yogya                    EXIT          FIRST 1
Demand_Per_Periode_Dealer_Yogy DI_Yogyakarta  Demand_Per_Periode_Yogya = N(1054, 269.97)
                               IF Demand_Per_Periode_Yogya < 0 THEN
                               {
                                Demand_Per_Periode_Yogya = 0
                               }

                                        1    Demand_Per_Periode_Dealer_Yogy EXIT          FIRST 1
Pengiriman_ke_Dealer_Yogya     DI_Yogyakarta 1    Pengiriman_ke_Dealer_Yogya     EXIT          FIRST 1  DEC Inv_MD_Yogya, Demand_Per_Periode
Pesanan_Denpasar               Denpasar      Jml_Q_Denpasar = (79*Periode_Pemesanan) - Inv_MD_Denpasar + (Buffer_Stock_Days * 79)
                               IF Jml_Q_Denpasar < (Buffer_Stock_Days * 79) THEN
                               {
                               Jml_Q_Denpasar = (Buffer_Stock_Days * 79)
                               }
                               Jml_Q_Denpasar_2 = Jml_Q_Denpasar
                                        1    Pesanan_Denpasar               Shipping_Pusat FIRST 1  MOVE FOR 0.5 DAY
Pesanan_Denpasar               Shipping_Pusat Jml_Del_Denpasar[j]=TRUNC(Jml_Q_Denpasar/84)
                               IF Jml_Del_Denpasar[j] <> 0 THEN
                               {
                               INT i =  0
                               DO
                               {
                                INC i
                                WAIT Periode_Pemesanan/Jml_Del_Denpasar[j]
                                ORDER 1 Truck_Denpasar TO Shipping_Pusat
                               }
                                UNTIL i >= Jml_Del_Denpasar[j]
                               }
                                        1    Pesanan_Denpasar               EXIT          FIRST 1
Truck_Denpasar                 Shipping_Pusat wait Leadtime
                               WAIT 1 HR
                                        1    Truck_Denpasar                 Denpasar      FIRST 1  MOVE FOR 20 HR


Truck_Denpasar                 Denpasar      WAIT 30 MIN
                               INC Inv_MD_Denpasar, 84
                               IF Inv_MD_Denpasar >= 0 THEN
                               {
                                Stok_Denpasar = Inv_MD_Denpasar
                               }
                                ELSE
                               {
                                Backorder_Denpasar = Inv_MD_Denpasar
                               }
```

```
                                        1    Truck_Denpasar                EXIT          FIRST 1
Demand_Per_Periode_Dealer_Denp Denpasar
                               Demand_Per_Periode_Denpasar = N(903, 231.11)
                               IF Demand_Per_Periode_Denpasar < 0 THEN
                               {
                                Demand_Per_Periode_Denpasar = 0
                               }

                                        1    Demand_Per_Periode_Dealer_Denp EXIT          FIRST 1
Pengiriman_ke_Dealer_Denpasar  Denpasar
                                        1    Pengiriman_ke_Dealer_Denpasar  EXIT          FIRST 1  DEC Inv_MD_Denpasar, Demand_Per_Peri
Pesanan_Kupang                 Kupang
                               Jml_Q_Kupang = (13*Periode_Pemesanan) - Inv_MD_Kupang + (Buffer_Stock_Days * 13)
                               IF Jml_Q_Kupang < (Buffer_Stock_Days * 13) THEN
                               {
                               Jml_Q_Kupang = (Buffer_Stock_Days * 13)
                               }
                               Jml_Q_Kupang_2 = Jml_Q_Kupang
                                        1    Pesanan_Kupang                Shipping_Pusat FIRST 1  MOVE FOR 0.5 DAY
Pesanan_Kupang                 Shipping_Pusat Jml_Del_Kupang[j]=TRUNC(Jml_Q_Kupang/84)
                               IF Jml_Del_Kupang[j] <> 0 THEN
                               {
                               INT i =  0
                               DO
                               {
                                INC i
                                WAIT Periode_Pemesanan/Jml_Del_Kupang[j]
                                ORDER 1 Truck_Kupang TO Shipping_Pusat
                               }
                                UNTIL i >= Jml_Del_Kupang[j]
                               }
                                        1    Pesanan_Kupang                EXIT          FIRST 1
Truck_Kupang                   Shipping_Pusat wait Leadtime
                                WAIT 1 HR
                                        1    Truck_Kupang                  Kupang        FIRST 1  MOVE FOR 54 HR



Truck_Kupang                   Kupang          WAIT 30 MIN
                                INC Inv_MD_Kupang, 84
                                IF Inv_MD_Kupang >= 0 THEN
                                {
                                 Stok_Kupang = Inv_MD_Kupang
                                }
                                 ELSE
                                {
                                 Backorder_Kupang = Inv_MD_Kupang
                                }
```

```
                                    1    Truck_Kupang                    EXIT           FIRST 1
Demand_Per_Periode_Dealer_Kupa Kupang
                                    Demand_Per_Periode_Kupang = N(151, 38.55)
                                    IF Demand_Per_Periode_Kupang < 0 THEN
                                    {
                                     Demand_Per_Periode_Kupang = 0
                                    }

                                    1    Demand_Per_Periode_Dealer_Kupa EXIT           FIRST 1
Pengiriman_ke_Dealer_Kupang    Kupang
                                    1    Pengiriman_ke_Dealer_Kupang    EXIT           FIRST 1  DEC Inv_MD_Kupang, Demand_Per_Period
Pesanan_Palangkaraya           Palangkaraya
                                    Jml_Q_Palangkaraya = (9*Periode_Pemesanan) - Inv_MD_Palangkaraya + (Buffer_Stock_Days * 9)
                                    IF Jml_Q_Palangkaraya < (Buffer_Stock_Days * 9) THEN
                                    {
                                    Jml_Q_Palangkaraya = (Buffer_Stock_Days * 9)
                                    }
                                    Jml_Q_Palangkaraya_2 = Jml_Q_Palangkaraya
                                    1    Pesanan_Palangkaraya           Shipping_Pusat FIRST 1  MOVE FOR 0.5 DAY
Pesanan_Palangkaraya           Shipping_Pusat
                                    Jml_Del_Palangkaraya[j]=TRUNC(Jml_Q_Palangkaraya/84)
                                    IF Jml_Del_Palangkaraya[j] <> 0 THEN
                                    {
                                    INT i =  0
                                    DO
                                    {
                                     INC i
                                     WAIT Periode_Pemesanan/Jml_Del_Palangkaraya[j]
                                     ORDER 1 Truck_Palangkaraya TO Shipping_Pusat
                                    }
                                     UNTIL i >= Jml_Del_Palangkaraya[j]
                                    },
                                     1    Pesanan_Palangkaraya           EXIT           FIRST 1
Truck_Palangkaraya             Shipping_Pusat wait Leadtime
                                     WAIT 1 HR
                                     1    Truck_Palangkaraya             Palangkaraya   FIRST 1  //DEC Inv_Shipping_Pusat, 80
                                                                                                  MOVE FOR 25 HR

Truck_Palangkaraya             Palangkaraya   WAIT 30 MIN
                                     INC Inv_MD_Palangkaraya, 84
                                     IF Inv_MD_Palangkaraya >= 0 THEN
                                     {
                                      Stok_Palangkaraya = Inv_MD_Palangkaraya
                                     }
                                      ELSE
                                     {
                                      Backorder_Palangkaraya = Inv_MD_Palangkaraya
                                     }
```

```
                                    1    Truck_Palangkaraya              EXIT           FIRST 1
Demand_Per_Periode_Dealer_Pala Palangkaraya   Demand_Per_Periode_Palangkaraya = N(100, 25.58)
                                    IF Demand_Per_Periode_Palangkaraya < 0 THEN
                                    {
                                     Demand_Per_Periode_Palangkaraya = 0
                                    }

                                    1    Demand_Per_Periode_Dealer_Pala EXIT           FIRST 1
Pengiriman_ke_Dealer_Palangkar Palangkaraya  1    Pengiriman_ke_Dealer_Palangkar EXIT           FIRST 1  DEC Inv_MD_Palangkaraya, Demand_Per_
Pesanan_Palu                   Palu          Jml_Q_Palu = (18*Periode_Pemesanan) - Inv_MD_Palu + (Buffer_Stock_Days * 18)
                                    IF Jml_Q_Palu < (Buffer_Stock_Days * 18) THEN
                                    {
                                    Jml_Q_Palu = (Buffer_Stock_Days * 18)
                                    }
                                    Jml_Q_Palu_2 = Jml_Q_Palu
                                    1    Pesanan_Palu                Shipping_Pusat FIRST 1  MOVE FOR 0.5 DAY
Pesanan_Palu                   Shipping_Pusat Jml_Del_Palu[j]=TRUNC(Jml_Q_Palu/84)
                                    IF Jml_Del_Palu[j] <> 0 THEN
                                    {
                                    INT i =  0
                                    DO
                                    {
                                     INC i
                                     WAIT Periode_Pemesanan/Jml_Del_Palu[j]
                                     ORDER 1 Truck_Palu TO Shipping_Pusat
                                    }
                                     UNTIL i >= Jml_Del_Palu[i]
Truck_Palu                      Palu           WAIT 30 MIN
                                    INC Inv_MD_Palu, 84
                                    IF Inv_MD_Palu >= 0 THEN
                                    {
                                     Stok_Palu = Inv_MD_Palu
                                    }
                                     ELSE
                                    {
                                     Backorder_Palu = Inv_MD_Palu
                                    }

                                    1    Truck_Palu                  EXIT           FIRST 1
Demand_Per_Periode_Dealer_Palu Palu           Demand_Per_Periode_Palu = N(201, 51.41)
                                    IF Demand_Per_Periode_Palu < 0 THEN
                                    {
                                     Demand_Per_Periode_Palu = 0
                                    }
                                    }                1    Pesanan_Palu                EXIT           FIRST 1
Truck_Palu                      Shipping_Pusat wait Leadtime
                                    WAIT 1 HR
                                    1    Truck_Palu                  Palu           FIRST 1  //DEC Inv_Shipping_Pusat, 80
                                                                                              MOVE FOR 40 HR
```

```
Truck_Palu                      Palu            WAIT 30 MIN
                                                INC Inv_MD_Palu, 84
                                                IF Inv_MD_Palu >= 0 THEN
                                                {
                                                 Stok_Palu = Inv_MD_Palu
                                                }
                                                 ELSE
                                                {
                                                 Backorder_Palu = Inv_MD_Palu
                                                }

                                                                    1    Truck_Palu                      EXIT           FIRST 1
Demand_Per_Periode_Dealer_Palu  Palu            Demand_Per_Periode_Palu = N(201, 51.41)
                                                IF Demand_Per_Periode_Palu < 0 THEN
                                                {
                                                 Demand_Per_Periode_Palu = 0
                                                }

                                                                   1    Demand_Per_Periode_Dealer_Palu EXIT           FIRST 1
Pengiriman_ke_Dealer_Palu       Palu                               1    Pengiriman_ke_Dealer_Palu      EXIT           FIRST 1  DEC Inv_MD_Palu, Demand_Per_Periode_
Pesanan_Ternate                 Ternate         Jml_Q_Ternate = (9*Periode_Pemesanan) - Inv_MD_Ternate + (Buffer_Stock_Days * 9)
                                                IF Jml_Q_Ternate < (Buffer_Stock_Days * 9) THEN
                                                {
                                                Jml_Q_Ternate = (Buffer_Stock_Days * 9)
                                                }
                                                Jml_Q_Ternate_2 = Jml_Q_Ternate
                                                                   1    Pesanan_Ternate                Shipping_Pusat FIRST 1  MOVE FOR 0.5 DAY
Pesanan_Ternate                 Shipping_Pusat  Jml_Del_Ternate[j]=TRUNC(Jml_Q_Ternate/84)
                                                IF Jml_Del_Ternate[j] <> 0 THEN
                                                {
                                                INT i =  0
                                                DO
                                                {
                                                 INC i
                                                 WAIT Periode_Pemesanan/Jml_Del_Ternate[j]
                                                 ORDER 1 Truck_Ternate TO Shipping_Pusat
                                                }
                                                 UNTIL i >= Jml_Del_Ternate[j]
                                                }                  1    Pesanan_Ternate                EXIT           FIRST 1
Truck_Ternate                   Shipping_Pusat  wait Leadtime
                                                WAIT 1 HR
                                                                    1    Truck_Ternate                   Ternate        FIRST 1  MOVE FOR 65 HR


Truck_Ternate                   Ternate         WAIT 30 MIN
                                                INC Inv_MD_Ternate, 84
                                                IF Inv_MD_Ternate >= 0 THEN
                                                {
                                                 Stok_Ternate = Inv_MD_Ternate
                                                }
                                                 ELSE
                                                {
                                                 Backorder_Ternate = Inv_MD_Ternate
                                                }

                                                                    1    Truck_Ternate                   EXIT           FIRST 1
Demand_Per_Periode_Dealer_Tern  Ternate         Demand_Per_Periode_Ternate = N(100, 25.58)
                                                IF Demand_Per_Periode_Ternate < 0 THEN
                                                {
                                                 Demand_Per_Periode_Ternate = 0
                                                }
```

```
                                                1    Demand_Per_Periode_Dealer_Tern EXIT           FIRST 1
Pengiriman_ke_Dealer_Ternate   Ternate           1    Pengiriman_ke_Dealer_Ternate   EXIT           FIRST 1  DEC Inv_MD_Ternate, Demand_Per_Perio
Pesanan_Ambon                  Ambon        Jml_Q_Ambon = (4*Periode_Pemesanan) - Inv_MD_Ambon + (Buffer_Stock_Days * 4)
                                            IF Jml_Q_Ambon < (Buffer_Stock_Days * 4) THEN
                                            {
                                            Jml_Q_Ambon = (Buffer_Stock_Days * 4)
                                            }
                                            Jml_Q_Ambon_2 = Jml_Q_Ambon
                                                1    Pesanan_Ambon                  Shipping_Pusat FIRST 1  MOVE FOR 0.5 DAY
Pesanan_Ambon                  Shipping_Pusat Jml_Del_Ambon[j]=TRUNC(Jml_Q_Ambon/84)
                                            IF Jml_Del_Ambon[j] <> 0 THEN
                                            {
                                            INT i =  0
                                            DO
                                            {
                                             INC i
                                             WAIT Periode_Pemesanan/Jml_Del_Ambon[j]
                                             ORDER 1 Truck_Ambon TO Shipping_Pusat
                                            }
                                             UNTIL i >= Jml_Del_Ambon[j]
                                            }                   1    Pesanan_Ambon                  EXIT           FIRST 1
Truck_Ambon                    Shipping_Pusat wait Leadtime
                                            WAIT 1 HR
                                                1    Truck_Ambon                    Ambon          FIRST 1  MOVE FOR 61 HR
```

```
Truck_Ambon                     Ambon           WAIT 30 MIN
                                                INC Inv_MD_Ambon, 84
                                                IF Inv_MD_Ambon >= 0 THEN
                                                {
                                                 Stok_Ambon = Inv_MD_Ambon
                                                }
                                                 ELSE
                                                {
                                                 Backorder_Ambon = Inv_MD_Ambon
                                                }
                                                                1    Truck_Ambon                     EXIT           FIRST 1
Demand_Per_Periode_Dealer_Ambo  Ambon           Demand_Per_Periode_Ambon = N(50, 12.91)
                                                IF Demand_Per_Periode_Ambon < 0 THEN
                                                {
                                                 Demand_Per_Periode_Ambon = 0
                                                }
                                                                1    Demand_Per_Periode_Dealer_Ambo EXIT           FIRST 1
Pengiriman_ke_Dealer_Ambon      Ambon                           1    Pengiriman_ke_Dealer_Ambon     EXIT           FIRST 1  DEC Inv_MD_Ambon, Demand_Per_Peri
Pesanan_Jayapura                Jayapura        Jml_Q_Jayapura = (22*Periode_Pemesanan) - Inv_MD_Jayapura + (Buffer_Stock_Days * 22)
                                                IF Jml_Q_Jayapura < (Buffer_Stock_Days * 22) THEN
                                                {
                                                Jml_Q_Jayapura = (Buffer_Stock_Days * 22)
                                                }
                                                Jml_Q_Jayapura_2 = Jml_Q_Jayapura
                                                                1    Pesanan_Jayapura               Shipping_Pusat FIRST 1  MOVE FOR 0.5 DAY
Pesanan_Jayapura                Shipping_Pusat  Jml_Del_Jayapura[j]=TRUNC(Jml_Q_Jayapura/84)
                                                IF Jml_Del_Jayapura[j] <> 0 THEN
                                                {
                                                INT i =  0
                                                DO
                                                {
                                                 INC i
                                                 WAIT Periode_Pemesanan/Jml_Del_Jayapura[j]
                                                 ORDER 1 Truck_Jayapura TO Shipping_Pusat
                                                }
                                                 UNTIL i >= Jml_Del_Jayapura[j]
                                                }
                                                                1    Pesanan_Jayapura               EXIT           FIRST 1
Truck_Jayapura                  Shipping_Pusat  wait Leadtime
                                                WAIT 1 HR
                                                                1    Truck_Jayapura                 Jayapura       FIRST 1  MOVE FOR 94 HR

Truck_Jayapura                  Jayapura        WAIT 30 MIN
                                                INC Inv_MD_Jayapura, 84
                                                IF Inv_MD_Jayapura >= 0 THEN
                                                {
                                                 Stok_Jayapura = Inv_MD_Jayapura
                                                }
                                                 ELSE
                                                {
                                                 Backorder_Jayapura = Inv_MD_Jayapura
                                                }
                                                                1    Truck_Jayapura                 EXIT           FIRST 1
Demand_Per_Periode_Dealer_Jaya  Jayapura        Demand_Per_Periode_Jayapura = N(251, 64.57)
                                                IF Demand_Per_Periode_Jayapura < 0 THEN
                                                {
                                                 Demand_Per_Periode_Jayapura = 0
                                                }
                                                                1    Demand_Per_Periode_Dealer_Jaya EXIT           FIRST 1
Pengiriman_ke_Dealer_Jayapura   Jayapura                        1    Pengiriman_ke_Dealer_Jayapura  EXIT           FIRST 1  DEC Inv_MD_Jayapura, Demand_Per_Peri
```

Input Model Menggunakan *Periodic Review Policy* :

```
**********************************************************************
                        Variables (global)
**********************************************************************

ID                          Type         Initial value Stats
--------------------------- ------------ ------------- --------
  Jml_Q_Sby                 Integer      0             Time Series
  Jml_Q_Sby_2               Integer      0             Time Series
  JmlDelivery_Sby           Integer      0             Time Series
  Jml_Q_Bdg                 Integer      0             Time Series
  Jml_Q_Bdg_2               Integer      0             Time Series
  JmlDelivery_Bdg           Integer      0             Time Series
  Jml_Q_Yogya               Integer      0             Time Series
  Jml_Q_Yogya_2             Integer      0             Time Series
  JmlDelivery_Yogya         Integer      0             Time Series
  Inv_Shipping_Pusat        Integer      0             Time Series
  j                         Integer      1             Time Series
  Demand_Per_Periode_Sby    Integer      0             Time Series
  Jml_Q_Medan               Integer      0             Time Series
  Jml_Q_Medan_2             Integer      0             Time Series
  JmlDelivery_Medan         Integer      0             Time Series
  Jml_Q_Padang              Integer      0             Time Series
  Jml_Q_Padang_2            Integer      0             Time Series
  JmlDelivery_Padang        Integer      0             Time Series
  Jml_Q_Denpasar            Integer      0             Time Series
  Jml_Q_Denpasar_2          Integer      0             Time Series
  JmlDelivery_Denpasar      Integer      0             Time Series
  Jml_Q_Kupang              Integer      0             Time Series
  Jml_Q_ Kupang _2          Integer      0             Time Series
  JmlDelivery_ Kupang       Integer      0             Time Series
  Jml_Q_Palangkaraya        Integer      0             Time Series
  Jml_Q_Palangkaraya_2      Integer      0             Time Series
  JmlDelivery_Palangkaraya  Integer      0             Time Series
  Jml_Q_Palu                Integer      0             Time Series
  Jml_Q_Palu_2              Integer      0             Time Series
  JmlDelivery_Palu          Integer      0             Time Series
  Jml_Q_Ternate             Integer      0             Time Series
  Jml_Q_Ternate_2           Integer      0             Time Series
  JmlDelivery_Ternate       Integer      0             Time Series
  Jml_Q_Ambon               Integer      0             Time Series
  Jml_Q_Ambon_2             Integer      0             Time Series
  JmlDelivery_Ambon         Integer      0             Time Series
  Jml_Q_Jayapura            Integer      0             Time Series
  Jml_Q_Jayapura_2          Integer      0             Time Series
  JmlDelivery_Jayapura      Integer      0             Time Series
  Jml_Q_Jkt                 Integer      0             Time Series
  Jml_Q_Jkt_2               Integer      0             Time Series
  JmlDelivery_Jkt           Integer      0             Time Series
  Inv_MD_Medan              Integer      1104          Time Series
  Inv_MD_Padang             Integer      176           Time Series
  Inv_MD_Jkt                Integer      1556          Time Series
  Inv_MD_Bdg                Integer      1456          Time Series
  Inv_MD_Yogya              Integer      527           Time Series
  Inv_MD_Sby                Integer      2184          Time Series
```

```
**********************************************************************
                        Variables (global)
**********************************************************************
  Inv_MD_Denpasar          Integer      452           Time Series
  Inv_MD_Kupang            Integer      76            Time Series
  Inv_MD_Palangkaraya      Integer      50            Time Series
  Inv_MD_Palu              Integer      101           Time Series
  Inv_MD_Ambon             Integer      25            Time Series
  Inv_MD_Ternate           Integer      50            Time Series
  Inv_MD_Jayapura          Integer      126           Time Series
  Stok_Medan               Integer      0             Time Series
  Stok_Padang              Integer      0             Time Series
  Stok_Jkt                 Integer      0             Time Series
  Stok_Bdg                 Integer      0             Time Series
  Stok_Sby                 Integer      0             Time Series
  Stok_Yogya               Integer      0             Time Series
  Stok_Denpasar            Integer      0             Time Series
  Stok_Kupang              Integer      0             Time Series
  Stok_Palangkaraya        Integer      0             Time Series
  Stok_Palu                Integer      0             Time Series
  Stok_Ternate             Integer      0             Time Series
  Stok_Ambon               Integer      0             Time Series
  Stok_Jayapura            Integer      0             Time Series
  Backorder_Medan          Integer      0             Time Series
  Backorder_Padang         Integer      0             Time Series
  Backorder_Jkt            Integer      0             Time Series
  Backorder_Bdg            Integer      0             Time Series
  Backorder_Sby            Integer      0             Time Series
  Backorder_Yogya          Integer      0             Time Series
  Backorder_Denpasar       Integer      0             Time Series
  Backorder_Kupang         Integer      0             Time Series
  Backorder_Palangkaraya   Integer      0             Time Series
  Backorder_Palu           Integer      0             Time Series
  Backorder_Ternate        Integer      0             Time Series
  Backorder_Ambon          Integer      0             Time Series
  Backorder_Jayapura       Integer      0             Time Series
  Demand_Per_Periode_Medan Integer      0             Time Series
  Demand_Per_Periode_PadangInteger      0             Time Series
  Demand_Per_Periode_Jkt   Integer      0             Time Series
  Demand_Per_Periode_Bdg   Integer      0             Time Series
  Demand_Per_Periode_Yogya Integer      0             Time Series
  Demand_Per_Periode_DenpsrInteger      0             Time Series
  Demand_Per_Periode_Kupng Integer      0             Time Series
  Demand_Per_Periode_PlgkryInteger      0             Time Series
  Demand_Per_Periode_Palu  Integer      0             Time Series
  Demand_Per_Periode_Ambon Integer      0             Time Series
  Demand_Per_Periode_Trnte Integer      0             Time Series
  Demand_Per_Periode_JypuraInteger      0             Time Series
  Ordering_Medan           Integer      0             Time Series
  Ordering_Padang          Integer      0             Time Series
  Ordering_Jkt             Integer      0             Time Series
  Ordering_Bdg             Integer      0             Time Series
  Ordering_Yogya           Integer      0             Time Series
  Ordering_Sby             Integer      0             Time Series
  Ordering_Denpasar        Integer      0             Time Series
```

****
Variables (global)
****

Ordering_Kupang	Integer	0	Time Series
Ordering_Palangkaraya	Integer	0	Time Series
Ordering_Palu	Integer	0	Time Series
Ordering_Ambon	Integer	0	Time Series
Ordering_Ternate	Integer	0	Time Series
Ordering_Jayapura	Integer	0	Time Series

****
Macros
****

ID	Text
Periode_Pemesanan	5
Leadtime	5
safety_factor	1.29

```
********************************************************************************
*                                  Processing                                  *
********************************************************************************

                                          Process                                          Routing

 Entity                         Location       Operation           Blk  Output                         Destination    Rule     Move Logic
 ------------------------------ -------------- ------------------  ---- ------------------------------ -------------- -------  ------------
 update_period                  Shipping_Pusat                     1    update_period                  EXIT           FIRST 1
 del_awal                       Shipping_Pusat                     1    del_awal                       EXIT           FIRST 1
 Produksi_Selesai               Shipping_Pusat IF (CALHOUR()  >=  7) AND (CALHOUR()  <=  15) THEN
                                               {
                                                INC Inv_Shipping_Pusat, 84
                                               }

                                                                   1    Produksi_Selesai               EXIT           FIRST 1
 Pesanan_Medan                  Medan          Jml_Q_Medan=((Periode_Pemesanan/10 + Leadtime/10)*2208) - Inv_MD_Medan +
(safety_factor*565.39*(SQRT(Periode_Pemesanan/10 + Leadtime/10)))
                                               IF Jml_Q_Medan < (safety_factor*565.39*(SQRT(Periode_Pemesanan/10 + Leadtime/10))) THEN
                                               {
                                               Jml_Q_Medan = (safety_factor*565.39*(SQRT(Periode_Pemesanan/10 + Leadtime/10)))
                                               }
                                               Jml_Q_Medan_2 = Jml_Q_Medan
                                                                   1    Pesanan_Medan                  Shipping_Pusat FIRST 1  MOVE FOR 0.5 DAY

Pesanan_Medan                  Shipping_Pusat Jml_Del_Medan[j]=TRUNC(Jml_Q_Medan/84)
                                              IF Jml_Del_Medan[j] <> 0 THEN
                                              {
                                              INT i =  0
                                              DO
                                              {
                                               INC i
                                               WAIT Periode_Pemesanan/Jml_Del_Medan[j]
                                               ORDER 1 Truck_Medan TO Shipping_Pusat
                                              }
                                               UNTIL i >= Jml_Del_Medan[j]
                                              }

                                                                  1    Pesanan_Medan                  EXIT           FIRST 1
Truck_Medan                    Shipping_Pusat wait Leadtime
                                              WAIT 1 HR
                                                                  1    Truck_Medan                    Medan          FIRST 1  //DEC Inv_Shipping_Pusat, 80
                                                                                                                              MOVE FOR 30 HR
```

```
                                                1    Pesanan_Medan                  EXIT           FIRST 1
Truck_Medan                  Shipping_Pusat wait Leadtime
                            WAIT 1 HR
                                                1    Truck_Medan                    Medan          FIRST 1  //DEC Inv_Shipping_Pusat, 80
                                                                                                             MOVE FOR 30 HR


Truck_Medan                  Medan          WAIT 30 MIN
                            INC Inv_MD_Medan, 84
                            IF Inv_MD_Medan >= 0 THEN
                            {
                             Stok_Medan = Inv_MD_Medan
                            }
                             ELSE
                            {
                             Backorder_Medan = Inv_MD_Medan
                            }
                                                1    Truck_Medan                    EXIT           FIRST 1
 Demand_Per_Periode_Dealer_Meda Medan          Demand_Per_Periode_Medan = N(2208, 565.39)
                            IF Demand_Per_Periode_Medan < 0 THEN
                            {
                             Demand_Per_Periode_Medan = 0
                            }
                                                1    Demand_Per_Periode_Dealer_Meda EXIT           FIRST 1
 Pengiriman_ke_Dealer_Medan  Medan                  1    Pengiriman_ke_Dealer_Medan     EXIT           FIRST 1  DEC Inv_MD_Medan,
Demand_Per_Periode_Medan
 Pesanan_Padang              Padang         Jml_Q_Padang = ((Periode_Pemesanan + Leadtime)/10*351) - Inv_MD_Padang + (safety_factor*90.20*(SQRT(Periode_Pemesana
Leadtime)/10))
                            IF Jml_Q_Padang < (safety_factor*90.20*(SQRT(Periode_Pemesanan + Leadtime)/10)) THEN
                            {
                            Jml_Q_Padang = (safety_factor*90.20*(SQRT(Periode_Pemesanan + Leadtime)/10))
                            }
                            Jml_Q_Padang_2 = Jml_Q_Padang
                                                1    Pesanan_Padang                 Shipping_Pusat FIRST 1  MOVE FOR 0.5 DAY
Pesanan_Padang               Shipping_Pusat Jml_Del_Padang[j]=TRUNC(Jml_Q_Padang/84)
                            IF Jml_Del_Padang[j] <> 0 THEN
                            {
                            INT i =  0
                            DO
                            {
                             INC i
                             WAIT Periode_Pemesanan/Jml_Del_Padang[j]
                             ORDER 1 Truck_Padang TO Shipping_Pusat
                            }
                             UNTIL i >= Jml_Del_Padang[j]
                            }
                                                1    Pesanan_Padang                 EXIT           FIRST 1
Truck_Padang                 Shipping_Pusat wait Leadtime
                            WAIT 1 HR
                                                1    Truck_Padang                   Padang         FIRST 1  //DEC Inv_Shipping_Pusat, 80
                                                                                                             MOVE FOR 22 HR
```

```
Truck_Padang                    Padang          WAIT 30 MIN
                                                INC Inv_MD_Padang, 84
                                                IF Inv_MD_Padang >= 0 THEN
                                                {
                                                 Stok_Padang = Inv_MD_Padang
                                                }
                                                 ELSE
                                                {
                                                 Backorder_Padang = Inv_MD_Padang
                                                }

                                                                1    Truck_Padang                    EXIT           FIRST 1
Demand_Per_Periode_Dealer_Pada  Padang          Demand_Per_Periode_Padang = N(351, 90.20)
                                                IF Demand_Per_Periode_Padang < 0 THEN
                                                {
                                                 Demand_Per_Periode_Padang = 0
                                                }

                                                                1    Demand_Per_Periode_Dealer_Pada EXIT           FIRST 1
 Pengiriman_ke_Dealer_Padang    Padang                          1    Pengiriman_ke_Dealer_Padang    EXIT           FIRST 1  DEC Inv_MD_Padang,
Demand_Per_Periode_Padang
 Pesanan_Jkt                    Jakarta         Jml_Q_Jkt = ((Periode_Pemesanan + Leadtime)/10*3111) - Inv_MD_Jkt + (safety_factor*796.68*(SQRT(Periode_Pemesanan
Leadtime)/10))
                                                IF Jml_Q_Jkt < (safety_factor*796.68*(SQRT(Periode_Pemesanan + Leadtime)/10)) THEN
                                                {
                                                Jml_Q_Jkt = (safety_factor*796.68*(SQRT(Periode_Pemesanan + Leadtime)/10))
                                                }
                                                Jml_Q_Jkt_2 = Jml_Q_Jkt
                                                                1    Pesanan_Jkt                    Shipping_Pusat FIRST 1  MOVE FOR 0.5 DAY
 Pesanan_Jkt                    Shipping_Pusat  Jml_Del_Jkt[j]=TRUNC(Jml_Q_Jkt/84)
                                                IF Jml_Del_Jkt[j] <> 0 THEN
                                                {
                                                INT i =  0
                                                DO
                                                {
                                                 INC i
                                                 WAIT Periode_Pemesanan/Jml_Del_Jkt[j]
                                                 ORDER 1 Truck_Jkt TO Shipping_Pusat
                                                }
                                                 UNTIL i >= Jml_Del_Jkt[j]
                                                }                   1    Pesanan_Jkt                    EXIT           FIRST 1
Truck_Jkt                       Shipping_Pusat  wait Leadtime
                                                WAIT 1 HR
                                                                1    Truck_Jkt                      Jakarta        FIRST 1  //DEC Inv_Shipping_Pusat, 80
                                                                                                                         MOVE FOR 2.5 HR
```

```
Truck_Jkt                       Jakarta         WAIT 30 MIN
                                                INC Inv_MD_Jkt, 84
                                                IF Inv_MD_Jkt >= 0 THEN
                                                {
                                                 Stok_Jkt = Inv_MD_Jkt
                                                }
                                                 ELSE
                                                {
                                                 Backorder_Jkt = Inv_MD_Jkt
                                                }

                                                        1    Truck_Jkt                      EXIT           FIRST 1
Demand_Per_Periode_Dealer_Jkt   Jakarta         Demand_Per_Periode_Jkt = N(3111, 796.68)
                                                IF Demand_Per_Periode_Jkt < 0 THEN
                                                {
                                                 Demand_Per_Periode_Jkt = 0
                                                }

                                                        1    Demand_Per_Periode_Dealer_Jkt  EXIT           FIRST 1
Pengiriman_ke_Dealer_Jkt        Jakarta                 1    Pengiriman_ke_Dealer_Jkt       EXIT           FIRST 1  DEC Inv_MD_Jkt, Demand_Per_Periode_
Pesanan_Bdg                     Bandung         Jml_Q_Bdg=((Periode_Pemesanan + Leadtime)/10*2911) - Inv_MD_Bdg + (safety_factor*744.71*(SQRT(Periode_Pemesanan +
Leadtime)/10))
                                                IF Jml_Q_Bdg < (safety_factor*744.71*(SQRT(Periode_Pemesanan + Leadtime)/10)) THEN
                                                {
                                                Jml_Q_Bdg = (safety_factor*744.71*(SQRT(Periode_Pemesanan + Leadtime)/10))
                                                }
                                                Jml_Q_Bdg_2 = Jml_Q_Bdg
                                                        1    Pesanan_Bdg                    Shipping_Pusat FIRST 1  MOVE FOR 0.5 DAY
Pesanan_Bdg                     Shipping_Pusat  Jml_Del_Bdg[j]=TRUNC(Jml_Q_Bdg_2/84)
                                                IF Jml_Del_Bdg[j] <> 0 THEN
                                                {
                                                INT i =  0
                                                DO
                                                {
                                                 INC i
                                                 WAIT Periode_Pemesanan/Jml_Del_Bdg[j]
                                                 ORDER 1 Truck_Bdg TO Shipping_Pusat
                                                }
                                                 UNTIL i >= Jml_Del_Bdg[j]
                                                }
```

```
                                                1    Pesanan_Bdg                    EXIT           FIRST 1
Truck_Bdg                     Shipping_Pusat wait Leadtime
                                             WAIT 1 HR
                                                1    Truck_Bdg                      Bandung        FIRST 1  //DEC Inv_Shipping_Pusat, 80
                                                                                                             MOVE FOR 5 HR


Truck_Bdg                     Bandung        WAIT 30 MIN
                                             INC Inv_MD_Bdg, 84
                                             IF Inv_MD_Bdg >= 0 THEN
                                             {
                                              Stok_Bdg = Inv_MD_Bdg
                                             }
                                              ELSE
                                             {
                                              Backorder_Bdg = Inv_MD_Bdg
                                             }

                                                1    Truck_Bdg                      EXIT           FIRST 1
Demand_Per_Periode_Dealer_Bdg Bandung        Demand_Per_Periode_Bdg = N(2911, 744.71)
                                             IF Demand_Per_Periode_Bdg < 0 THEN
                                             {
                                              Demand_Per_Periode_Bdg = 0
                                             }

                                                1    Demand_Per_Periode_Dealer_Bdg  EXIT           FIRST 1
Pengiriman_ke_Dealer_Bdg      Bandung          1    Pengiriman_ke_Dealer_Bdg       EXIT           FIRST 1  DEC Inv_MD_Bdg, Demand_Per_Periode_
Pesanan_Sby                   Surabaya       Jml_Q_Sby = ((Periode_Pemesanan + Leadtime)/10*4367) - Inv_MD_Sby + (safety_factor*1117.66*(SQRT(Periode_Pemesanan +
Leadtime)/10))

                                             IF Jml_Q_Sby < (safety_factor*1117.66*(SQRT(Periode_Pemesanan + Leadtime)/10)) THEN
                                             {
                                             Jml_Q_Sby = (safety_factor*1117.66*(SQRT(Periode_Pemesanan + Leadtime)/10))
                                             }
                                             Jml_Q_Sby_2 = Jml_Q_Sby
                                                1    Pesanan_Sby                    Shipping_Pusat FIRST 1  MOVE FOR 0.5 DAY
Pesanan_Sby                   Shipping_Pusat Jml_Del_Sby[j]=TRUNC(Jml_Q_Sby_2/84)
                                             IF Jml_Del_Sby[j] <> 0 THEN
                                             {
                                             INT i =  0
                                             DO
                                             {
                                              INC i
                                              WAIT Periode_Pemesanan/Jml_Del_Sby[j]
                                              ORDER 1 Truck_Sby TO Shipping_Pusat
                                             }
                                              UNTIL i >= Jml_Del_Sby[j]
                                             }
```

			1	Pesanan_Sby	EXIT	FIRST 1	
Truck_Sby	Shipping_Pusat	wait Leadtime WAIT 1 HR					
			1	Truck_Sby	Surabaya	FIRST 1	//DEC Inv_Shipping_Pusat, 80 MOVE FOR 15 HR

Truck_Sby	Surabaya	WAIT 30 MIN
		INC Inv_MD_Sby, 84
		IF Inv_MD_Sby >= 0 THEN
		{
		Stok_Sby = Inv_MD_Sby
		}
		ELSE
		{
		Backorder_Sby = Inv_MD_Sby
		}					

			1	Truck_Sby	EXIT	FIRST 1	

Demand_Per_Periode_Dealer_Sby	Surabaya	Demand_Per_Periode_Sby = N(4367, 1117.66)
		IF Demand_Per_Periode_Sby < 0 THEN
		{
		Demand_Per_Periode_Sby = 0
		}					

			1	Demand_Per_Periode_Dealer_Sby	EXIT	FIRST 1	
Pengiriman_ke_Dealer_Sby	Surabaya		1	Pengiriman_ke_Dealer_Sby	EXIT	FIRST 1	DEC Inv_MD_Sby, Demand_Per_Periode_

Pesanan_Yogya	DI_Yogyakarta	Jml_Q_Yogya=((Periode_Pemesanan + Leadtime)/10*1054) - Inv_MD_Yogya + (safety_factor*269.97*(SQRT(Periode_Pemesanan + Leadtime)/10))
		IF Jml_Q_Yogya < (safety_factor*269.97*(SQRT(Periode_Pemesanan + Leadtime)/10)) THEN
		{
		Jml_Q_Yogya = (safety_factor*269.97*(SQRT(Periode_Pemesanan + Leadtime)/10))
		}
		Jml_Q_Yogya_2 = Jml_Q_Yogya					

			1	Pesanan_Yogya	Shipping_Pusat	FIRST 1	MOVE FOR 0.5 DAY

Pesanan_Yogya	Shipping_Pusat	Jml_Del_Yogya[j]=TRUNC(Jml_Q_Yogya_2/84)
		IF Jml_Del_Yogya[j] <> 0 THEN
		{
		INT i = 0
		DO
		{
		INC i
		WAIT Periode_Pemesanan/Jml_Del_Yogya[j]
		ORDER 1 Truck_Yogya TO Shipping_Pusat
		}
		UNTIL i >= Jml_Del_Yogya[j]
		}					

			1	Pesanan_Yogya	EXIT	FIRST 1	
Truck_Yogya	Shipping_Pusat	wait Leadtime WAIT 1 HR					
			1	Truck_Yogya	DI_Yogyakarta	FIRST 1	//DEC Inv_Shipping_Pusat, 80 MOVE FOR 12 HR

```
Truck_Yogya                    DI_Yogyakarta  WAIT 30 MIN
                                              INC Inv_MD_Yogya, 84
                                              IF Inv_MD_Yogya >= 0 THEN
                                              {
                                               Stok_Yogya = Inv_MD_Yogya
                                              }
                                               ELSE
                                              {
                                               Backorder_Yogya = Inv_MD_Yogya
                                              }
                                                                1    Truck_Yogya                    EXIT           FIRST 1
Demand_Per_Periode_Dealer_Yogy DI_Yogyakarta  Demand_Per_Periode_Yogya = N(1054, 269.97)
                                              IF Demand_Per_Periode_Yogya < 0 THEN
                                              {
                                               Demand_Per_Periode_Yogya = 0
                                              }

                                                                1    Demand_Per_Periode_Dealer_Yogy EXIT           FIRST 1
Pengiriman_ke_Dealer_Yogya     DI_Yogyakarta                    1    Pengiriman_ke_Dealer_Yogya     EXIT           FIRST 1  DEC Inv_MD_Yogya,
Demand_Per_Periode_Yogya
Pesanan_Denpasar               Denpasar       Jml_Q_Denpasar=((Periode_Pemesanan + Leadtime)/10*903) - Inv_MD_Denpasar + (safety_factor*231.11*(SQRT(Periode_Pemes
+ Leadtime)/10))
                                              IF Jml_Q_Denpasar < (safety_factor*231.11*(SQRT(Periode_Pemesanan + Leadtime)/10)) THEN
                                              {
                                              Jml_Q_Denpasar = (safety_factor*231.11*(SQRT(Periode_Pemesanan + Leadtime)/10))
                                              }
                                              Jml_Q_Denpasar_2 = Jml_Q_Denpasar
                                                                1    Pesanan_Denpasar               Shipping_Pusat FIRST 1  MOVE FOR 0.5 DAY
Pesanan_Denpasar               Shipping_Pusat Jml_Del_Denpasar[j]=TRUNC(Jml_Q_Denpasar_2/84)
                                              IF Jml_Del_Denpasar[j] <> 0 THEN
                                              {
                                              INT i =  0
                                              DO
                                              {
                                               INC i
                                               WAIT Periode_Pemesanan/Jml_Del_Denpasar[j]
                                               ORDER 1 Truck_Denpasar TO Shipping_Pusat
                                              }
                                               UNTIL i >= Jml_Del_Denpasar[j]
                                              }
```

```
                                                                  1    Pesanan_Denpasar             EXIT          FIRST 1
 Truck_Denpasar              Shipping_Pusat wait Leadtime
                                            WAIT 1 HR
                                                                  1    Truck_Denpasar               Denpasar      FIRST 1  //DEC Inv_Shipping_Pusat, 80
                                                                                                                           MOVE FOR 20 HR

 Truck_Denpasar              Denpasar       WAIT 30 MIN
                                            INC Inv_MD_Denpasar, 84
                                            IF Inv_MD_Denpasar >= 0 THEN
                                            {
                                             Stok_Denpasar = Inv_MD_Denpasar
                                            }
                                             ELSE
                                            {
                                             Backorder_Denpasar = Inv_MD_Denpasar
                                            }
                                                                  1    Truck_Denpasar               EXIT          FIRST 1
 Demand_Per_Periode_Dealer_Denp Denpasar    Demand_Per_Periode_Denpasar = N(903, 231.11)
                                            IF Demand_Per_Periode_Denpasar < 0 THEN
                                            {
                                             Demand_Per_Periode_Denpasar = 0
                                            }
                                                                  1    Demand_Per_Periode_Dealer_Denp EXIT        FIRST 1
 Pengiriman_ke_Dealer_Denpasar  Denpasar                          1    Pengiriman_ke_Dealer_Denpasar  EXIT        FIRST 1  DEC Inv_MD_Denpasar,
Demand_Per_Periode_Denpasar
 Pesanan_Kupang              Kupang         Jml_Q_Kupang=((Periode_Pemesanan + Leadtime)/10*151) - Inv_MD_Kupang + (safety_factor*38.55*(SQRT(Periode_Pemesanan
Leadtime)/10))
                                            IF Jml_Q_Kupang < (safety_factor*38.55*(SQRT(Periode_Pemesanan + Leadtime)/10)) THEN
                                            {
                                            Jml_Q_Kupang = (safety_factor*38.55*(SQRT(Periode_Pemesanan + Leadtime)/10))
                                            }
                                            Jml_Q_Kupang_2 = Jml_Q_Kupang
                                                                  1    Pesanan_Kupang               Shipping_Pusat FIRST 1  MOVE FOR 0.5 DAY
 Pesanan_Kupang              Shipping_Pusat Jml_Del_Dili[j]=TRUNC(Jml_Q_Kupang_2/84)
                                            IF Jml_Del_Dili[j] <> 0 THEN
                                            {
                                            INT i =  0
                                            DO
                                            {
                                             INC i
                                             WAIT Periode_Pemesanan/Jml_Del_Dili[j]
                                             ORDER 1 Truck_Kupang TO Shipping_Pusat
                                            }
                                             UNTIL i >= Jml_Del_Dili[j]
                                            }
```

```
                                                                 1    Pesanan_Kupang               EXIT          FIRST 1
 Truck_Kupang                 Shipping_Pusat wait Leadtime
                                             WAIT 1 HR
                                                                 1    Truck_Kupang                 Kupang        FIRST 1  //DEC Inv_Shipping_Pusat, 80
                                                                                                                          MOVE FOR 54 HR

 Truck_Kupang                 Kupang         WAIT 30 MIN
                                             INC Inv_MD_Kupang, 84
                                             IF Inv_MD_Kupang >= 0 THEN
                                             {
                                              Stok_Kupang = Inv_MD_Kupang
                                             }
                                              ELSE
                                             {
                                              Backorder_Kupang = Inv_MD_Kupang
                                             }
                                                                 1    Truck_Kupang                 EXIT          FIRST 1
 Demand_Per_Periode_Dealer_Kupa Kupang       Demand_Per_Periode_Kupang = N(151, 38.55)
                                             IF Demand_Per_Periode_Kupang < 0 THEN
                                             {
                                              Demand_Per_Periode_Kupang = 0
                                             }

                                                                 1    Demand_Per_Periode_Dealer_Kupa EXIT        FIRST 1
 Pengiriman_ke_Dealer_Kupang    Kupang                           1    Pengiriman_ke_Dealer_Kupang  EXIT          FIRST 1  DEC Inv_MD_Kupang,
Demand_Per_Periode_Kupang
 Pesanan_Palangkaraya         Palangkaraya   Jml_Q_Palangkaraya=((Periode_Pemesanan + Leadtime)/10*100) - Inv_MD_Palangkaraya +
(safety_factor*25.58*(SQRT(Periode_Pemesanan + Leadtime)/10))
                                             IF Jml_Q_Palangkaraya < (safety_factor*25.58*(SQRT(Periode_Pemesanan + Leadtime)/10)) THEN
                                             {
                                             Jml_Q_Palangkaraya = (safety_factor*25.58*(SQRT(Periode_Pemesanan + Leadtime)/10))
                                             }
                                             Jml_Q_Palangkaraya_2 = Jml_Q_Palangkaraya
                                                                 1    Pesanan_Palangkaraya         Shipping_Pusat FIRST 1  MOVE FOR 0.5 DAY
 Pesanan_Palangkaraya         Shipping_Pusat Jml_Del_Palangkaraya[j]=TRUNC(Jml_Q_Palangkaraya_2/84)
                                             IF Jml_Del_Palangkaraya[j] <> 0 THEN
                                             {
                                             INT i =  0
                                             DO
                                             {
                                              INC i
                                              WAIT Periode_Pemesanan/Jml_Del_Palangkaraya[j]
                                              ORDER 1 Truck_Palangkaraya TO Shipping_Pusat
                                             }
                                              UNTIL i >= Jml_Del_Palangkaraya[j]
                                             }
```

```
                                  }
                                                               1    Pesanan_Palangkaraya          EXIT          FIRST 1
 Truck_Palangkaraya              Shipping_Pusat wait Leadtime
                                                WAIT 1 HR
                                                               1    Truck_Palangkaraya            Palangkaraya  FIRST 1  //DEC Inv_Shipping_Pusat, 80
                                                                                                                         MOVE FOR 25 HR

 Truck_Palangkaraya              Palangkaraya   WAIT 30 MIN
                                                INC Inv_MD_Palangkaraya, 84
                                                IF Inv_MD_Palangkaraya >= 0 THEN
                                                {
                                                 Stok_Palangkaraya = Inv_MD_Palangkaraya
                                                }
                                                 ELSE
                                                {
                                                 Backorder_Palangkaraya = Inv_MD_Palangkaraya
                                                }
                                                               1    Truck_Palangkaraya            EXIT          FIRST 1
 Demand_Per_Periode_Dealer_Pala  Palangkaraya   Demand_Per_Periode_Palangkaraya = N(100, 25.58)
                                                IF Demand_Per_Periode_Palangkaraya < 0 THEN
                                                {
                                                 Demand_Per_Periode_Palangkaraya = 0
                                                }
                                                               1    Demand_Per_Periode_Dealer_Pala EXIT         FIRST 1
 Pengiriman_ke_Dealer_Palangkar  Palangkaraya                  1    Pengiriman_ke_Dealer_Palangkar EXIT         FIRST 1  DEC Inv_MD_Palangkaraya,
Demand_Per_Periode_Palangkaraya
 Pesanan_Palu                    Palu           Jml_Q_Palu=((Periode_Pemesanan + Leadtime)/10*201) - Inv_MD_Palu + (safety_factor*51.41*(SQRT(Periode_Pemesanan +
Leadtime)/10))
                                                IF Jml_Q_Palu < (safety_factor*51.41*(SQRT(Periode_Pemesanan + Leadtime)/10)) THEN
                                                {
                                                Jml_Q_Palu = (safety_factor*51.41*(SQRT(Periode_Pemesanan + Leadtime)/10))
                                                }
                                                Jml_Q_Palu_2 = Jml_Q_Palu
                                                               1    Pesanan_Palu                  Shipping_Pusat FIRST 1  MOVE FOR 0.5 DAY
 Pesanan_Palu                    Shipping_Pusat Jml_Del_Palu[j]=TRUNC(Jml_Q_Palu_2/84)
                                                IF Jml_Del_Palu[j] <> 0 THEN
                                                {
                                                INT i =  0
                                                DO
                                                {
                                                 INC i
                                                 WAIT Periode_Pemesanan/Jml_Del_Palu[j]
                                                 ORDER 1 Truck_Palu TO Shipping_Pusat
                                                }
                                                 UNTIL i >= Jml_Del_Palu[j]
                                                }              1    Pesanan_Palu                  EXIT          FIRST 1
 Truck_Palu                      Shipping_Pusat wait Leadtime
                                                WAIT 1 HR
                                                               1    Truck_Palu                    Palu          FIRST 1  //DEC Inv_Shipping_Pusat, 80
                                                                                                                         MOVE FOR 40 HR
```

```
Truck_Palu                      Palu            WAIT 30 MIN
                                                INC Inv_MD_Palu, 84
                                                IF Inv_MD_Palu >= 0 THEN
                                                {
                                                 Stok_Palu = Inv_MD_Palu
                                                }
                                                 ELSE
                                                {
                                                 Backorder_Palu = Inv_MD_Palu
                                                }
                                                                1    Truck_Palu                    EXIT           FIRST 1
Demand_Per_Periode_Dealer_Palu  Palu            Demand_Per_Periode_Palu = N(201, 51.41)
                                                IF Demand_Per_Periode_Palu < 0 THEN
                                                {
                                                 Demand_Per_Periode_Palu = 0
                                                }
                                                                1    Demand_Per_Periode_Dealer_Palu EXIT           FIRST 1
Pengiriman_ke_Dealer_Palu       Palu                            1    Pengiriman_ke_Dealer_Palu      EXIT           FIRST 1  DEC Inv_MD_Palu,
Demand_Per_Periode_Palu
Pesanan_Ternate                 Ternate         Jml_Q_Ternate=((Periode_Pemesanan + Leadtime)/10*100) - Inv_MD_Ternate + (safety_factor*25.58*(SQRT(Periode_Pemesana
Leadtime)/10))
                                                IF Jml_Q_Ternate < (safety_factor*25.58*(SQRT(Periode_Pemesanan + Leadtime)/10)) THEN
                                                {
                                                Jml_Q_Ternate = (safety_factor*25.58*(SQRT(Periode_Pemesanan + Leadtime)/10))
                                                }
                                                Jml_Q_Ternate_2 = Jml_Q_Ternate
                                                                1    Pesanan_Ternate               Shipping_Pusat FIRST 1  MOVE FOR 0.5 DAY
Pesanan_Ternate                 Shipping_Pusat  Jml_Del_Ternate[j]=TRUNC(Jml_Q_Ternate_2/84)
                                                IF Jml_Del_Ternate[j] <> 0 THEN
                                                {
                                                INT i =  0
                                                DO
                                                {
                                                 INC i
                                                 WAIT Periode_Pemesanan/Jml_Del_Ternate[j]
                                                 ORDER 1 Truck_Ternate TO Shipping_Pusat
                                                }
                                                 UNTIL i >= Jml_Del_Ternate[j]
                                                }               1    Pesanan_Ternate               EXIT           FIRST 1
Truck_Ternate                   Shipping_Pusat  wait Leadtime
                                                WAIT 1 HR
                                                                1    Truck_Ternate                 Ternate        FIRST 1  //DEC Inv_Shipping_Pusat, 80
                                                                                                                         MOVE FOR 65 HR
```

```
Truck_Ternate                   Ternate         WAIT 30 MIN
                                                INC Inv_MD_Ternate, 84
                                                IF Inv_MD_Ternate >= 0 THEN
                                                {
                                                 Stok_Ternate = Inv_MD_Ternate
                                                }
                                                 ELSE
                                                {
                                                 Backorder_Ternate = Inv_MD_Ternate
                                                }

                                                                1    Truck_Ternate                  EXIT           FIRST 1
Demand_Per_Periode_Dealer_Tern Ternate          Demand_Per_Periode_Ternate = N(100, 25.58)
                                                IF Demand_Per_Periode_Ternate < 0 THEN
                                                {
                                                 Demand_Per_Periode_Ternate = 0
                                                }
                                                                1    Demand_Per_Periode_Dealer_Tern EXIT           FIRST 1
 Pengiriman_ke_Dealer_Ternate   Ternate                         1    Pengiriman_ke_Dealer_Ternate   EXIT           FIRST 1  DEC Inv_MD_Ternate,
Demand_Per_Periode_Ternate
 Pesanan_Ambon                  Ambon           Jml_Q_Ambon=((Periode_Pemesanan + Leadtime)/10*50) - Inv_MD_Ambon + (safety_factor*12.91*(SQRT(Periode_Pemesanan +
Leadtime)/10))
                                                IF Jml_Q_Ambon < (safety_factor*12.91*(SQRT(Periode_Pemesanan + Leadtime)/10)) THEN
                                                {
                                                Jml_Q_Ambon = (safety_factor*12.91*(SQRT(Periode_Pemesanan + Leadtime)/10))
                                                }
                                                Jml_Q_Ambon_2 = Jml_Q_Ambon
                                                                1    Pesanan_Ambon                  Shipping_Pusat FIRST 1  MOVE FOR 0.5 DAY
 Pesanan_Ambon                  Shipping_Pusat  Jml_Del_Ambon[j]=TRUNC(Jml_Q_Ambon_2/84)
                                                IF Jml_Del_Ambon[j] <> 0 THEN
                                                {
                                                INT i =  0
                                                DO
                                                {
                                                 INC i
                                                 WAIT Periode_Pemesanan/Jml_Del_Ambon[j]
                                                 ORDER 1 Truck_Ambon TO Shipping_Pusat
                                                }
                                                 UNTIL i >= Jml_Del_Ambon[j]
                                                }               1    Pesanan_Ambon                  EXIT           FIRST 1
 Truck_Ambon                    Shipping_Pusat  wait Leadtime
                                                WAIT 1 HR
                                                                1    Truck_Ambon                    Ambon          FIRST 1  //DEC Inv_Shipping_Pusat, 80
                                                                                                                         MOVE FOR 61 HR
```

```
Truck_Ambon                     Ambon           WAIT 30 MIN
                                                INC Inv_MD_Ambon, 84
                                                IF Inv_MD_Ambon >= 0 THEN
                                                {
                                                 Stok_Ambon = Inv_MD_Ambon
                                                }
                                                 ELSE
                                                {
                                                 Backorder_Ambon = Inv_MD_Ambon
                                                }

                                                                1    Truck_Ambon                    EXIT           FIRST 1
Demand_Per_Periode_Dealer_Ambo Ambon            Demand_Per_Periode_Ambon = N(50, 12.91)
                                                IF Demand_Per_Periode_Ambon < 0 THEN
                                                {
                                                 Demand_Per_Periode_Ambon = 0
                                                }

                                                            1    Demand_Per_Periode_Dealer_Ambo EXIT           FIRST 1
 Pengiriman_ke_Dealer_Ambon     Ambon                       1    Pengiriman_ke_Dealer_Ambon     EXIT           FIRST 1  DEC Inv_MD_Ambon,
Demand_Per_Periode_Ambon
 Pesanan_Jayapura               Jayapura        Jml_Q_Jayapura=((Periode_Pemesanan + Leadtime)/10*251) - Inv_MD_Jayapura + (safety_factor*64.57*(SQRT(Periode_Pemesa
+ Leadtime)/10))

                                                IF Jml_Q_Jayapura < (safety_factor*64.57*(SQRT(Periode_Pemesanan + Leadtime)/10)) THEN
                                                {
                                                Jml_Q_Jayapura = (safety_factor*64.57*(SQRT(Periode_Pemesanan + Leadtime)/10))
                                                }
                                                Jml_Q_Jayapura_2 = Jml_Q_Jayapura
                                                            1    Pesanan_Jayapura               Shipping_Pusat FIRST 1  MOVE FOR 0.5 DAY
 Pesanan_Jayapura               Shipping_Pusat  Jml_Del_Jayapura[j]=TRUNC(Jml_Q_Jayapura_2/84)
                                                IF Jml_Del_Jayapura[j] <> 0 THEN
                                                {
                                                INT i =  0
                                                DO
                                                {
                                                 INC i
                                                 WAIT Periode_Pemesanan/Jml_Del_Jayapura[j]
                                                 ORDER 1 Truck_Jayapura TO Shipping_Pusat
                                                }
                                                 UNTIL i >= Jml_Del_Jayapura[j]
                                                }                   1    Pesanan_Jayapura               EXIT           FIRST 1
 Truck_Jayapura                 Shipping_Pusat  wait Leadtime
                                                WAIT 1 HR
                                                            1    Truck_Jayapura                 Jayapura       FIRST 1  //DEC Inv_Shipping_Pusat, 80
                                                                                                                        MOVE FOR 94 HR
```

```
 Truck_Jayapura                  Jayapura       WAIT 30 MIN
                                                INC Inv_MD_Jayapura, 84
                                                IF Inv_MD_Jayapura >= 0 THEN
                                                {
                                                 Stok_Jayapura = Inv_MD_Jayapura
                                                }
                                                 ELSE
                                                {
                                                 Backorder_Jayapura = Inv_MD_Jayapura
                                                }

                                                                    1    Truck_Jayapura                 EXIT           FIRST 1
 Demand_Per_Periode_Dealer_Jaya Jayapura        Demand_Per_Periode_Jayapura = N(251, 64.57)
                                                IF Demand_Per_Periode_Jayapura < 0 THEN
                                                {
                                                 Demand_Per_Periode_Jayapura = 0
                                                }

                                                                    1    Demand_Per_Periode_Dealer_Jaya EXIT           FIRST 1
 Pengiriman_ke_Dealer_Jayapura  Jayapura                            1    Pengiriman_ke_Dealer_Jayapura  EXIT           FIRST 1  DEC Inv_MD_Jayapura,
Demand_Per_Periode_Jayapura
```