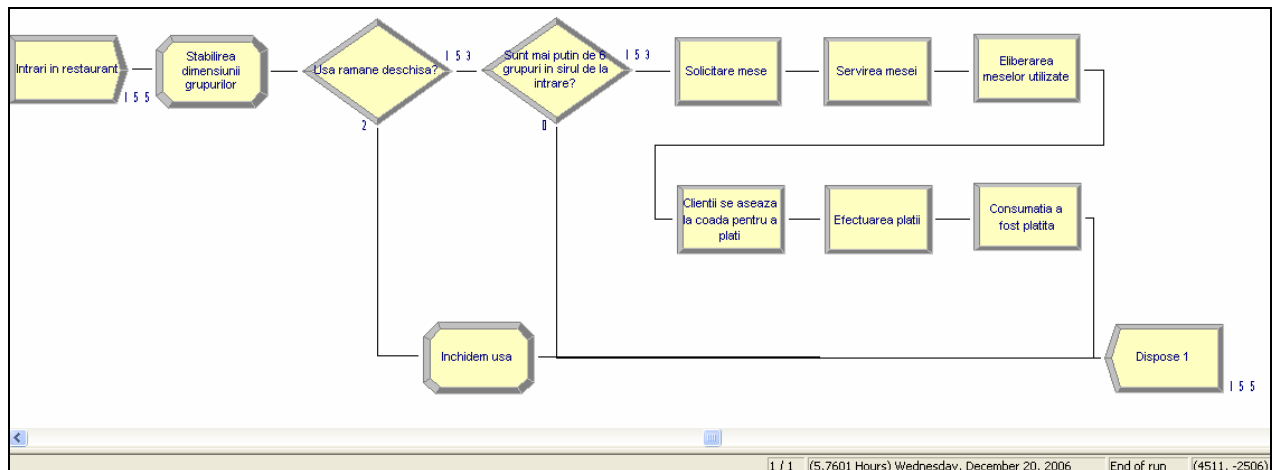


Activitatea 1.



Fișierul Model

; Model statements for module: Create 1

13\$ CREATE, 1, MinutesToBaseTime(0.0), Entity 1: MinutesToBaseTime(EXPO(1.6)), Intrare:
NEXT(14\$);

14\$ ASSIGN: Intrari in restaurant.NumberOut=Intrari in restaurant.NumberOut + 1:NEXT(0\$);

; Model statements for module: Assign 1

0\$ ASSIGN: Dimensiune_grup=DISC(0.4,2,0.7,3,0.9,4,1,5):
Entity.Picture=(Dimensiune_grup==2)*5+(Dimensiune_grup==3)*8+
(Dimensiune_grup==4)*25+(Dimensiune_grup==5)*3:NEXT(1\$);

; Model statements for module: Decide 1

1\$ BRANCH, 1:
If, TNOW<4,17\$, Yes:
Else, 18\$, Yes;

17\$ ASSIGN: Usa ramane deschisa?.NumberOut True=Usa ramane deschisa?.NumberOut
True + 1:NEXT(12\$);

18\$ ASSIGN: Usa ramane deschisa?.NumberOut False=Usa ramane deschisa?.NumberOut False
+ 1:NEXT(2\$);

; Model statements for module: Decide 2

12\$ BRANCH, 1:
If, NQ(Sir_Intrare)<6,19\$, Yes:
Else, 20\$, Yes;

19\$ ASSIGN: Sunt mai putin de 6 grupuri in sirul de la intrare?.NumberOut True=
Sunt mai putin de 6 grupuri in sirul de la intrare?.NumberOut True + 1:NEXT(3\$);

20\$ ASSIGN: Sunt mai putin de 6 grupuri in sirul de la intrare?.NumberOut False=
Sunt mai putin de 6 grupuri in sirul de la intrare?.NumberOut False + 1:NEXT(7\$);

; Model statements for module: Seize 1

3\$ QUEUE, Sir_intrare;
SEIZE, 2, Other: Masa, AINT((Dimensiune_grup+1)/2):NEXT(22\$);
22\$ DELAY: 0.0,,VA:NEXT(5\$);

; Model statements for module: Delay 1

5\$ DELAY: MinutesToBaseTime(TRIA(15,18,20) + NORM(20,2)),,Other:NEXT(6\$);

```

; Model statements for module: Release 1
6$ RELEASE: Masa,AINT((Dimensiune_grup+1)/2):NEXT(8$);

; Model statements for module: Seize 2
8$ QUEUE, Clientii se aseaza la coada pentru a plati.Queue;
SEIZE, 2,Other: Casier,1:NEXT(24$);

24$ DELAY: 0.0,,VA:NEXT(10$);

; Model statements for module: Delay 2
10$ DELAY: MinutesToBaseTime(NORM(2,0.5)),,Other:NEXT(11$);

; Model statements for module: Release 2
11$ RELEASE: Casier,1:NEXT(7$);

; Model statements for module: Dispose 1
7$ ASSIGN: Dispose 1.NumberOut=Dispose 1.NumberOut + 1;
25$ DISPOSE: Yes;

; Model statements for module: Assign 2
2$ ASSIGN: Intrare=0:NEXT(7$);

```

Fișierul Experiment

ATTRIBUTES: Dimensiune_grup;

VARIABLES:

Intrare,CLEAR(System),CATEGORY("User Specified-User Specified"),100000:

QUEUES: Sir_intrare,FIFO,,AUTOSTATS(Yes,,):

Clientii se aseaza la coada pentru a plati.Queue,FIFO,,AUTOSTATS(Yes,,);

RESOURCES:

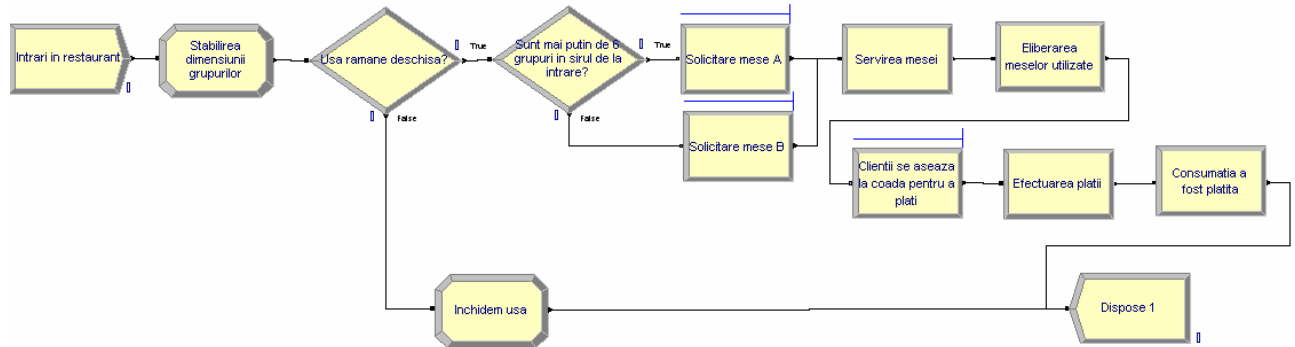
Casier,Capacity(1),,,COST(0.0,0.0,0.0),CATEGORY(Resources),,AUTOSTATS(Yes,,):

Masa,Capacity(50),,,COST(0.0,0.0,0.0),CATEGORY(Resources),,AUTOSTATS(Yes,,);

REPLICATE, 1,,,Yes,Yes,,,,24,Hours,No,No,,,Yes;

ENTITIES: Entity 1,Picture.Report,0.0,0.0,0.0,0.0,0.0,0.0,AUTOSTATS(Yes,,);

Activitatea 2.



Fișierul Model

; Model statements for module: Create 1

15\$ **CREATE**, 1, MinutesToBaseTime(0.0), Entity 1: MinutesToBaseTime(EXPO(1.6)), Intrare;

16\$ **ASSIGN**: Intrari in restaurant.NumberOut=Intrari in restaurant.NumberOut + 1:NEXT(0\$);

; Model statements for module: Assign 1

0\$ **ASSIGN**: Dimensiune_grup=DISC(0.4,2,0.7,3,0.9,4,1,5):

Entity.Picture=(Dimensiune_grup==2)*5+(Dimensiune_grup==3)*8+
(Dimensiune_grup==4)*25+ (Dimensiune_grup==5)*3:NEXT(1\$);

; Model statements for module: Decide 1

1\$ **BRANCH**, 1:
If, TNOW<4, 19\$, Yes:
Else, 20\$, Yes;

19\$ **ASSIGN**: Usa ramane deschisa?.NumberOut True=Usa ramane deschisa?.NumberOut True + 1:NEXT(12\$);

20\$ **ASSIGN**: Usa ramane deschisa?.NumberOut False=Usa ramane deschisa?.NumberOut False + 1:NEXT(2\$);

; Model statements for module: Decide 2

12\$ **BRANCH**, 1:
If, NQ(Sir_intrare)<6, 21\$, Yes:
Else, 22\$, Yes;

21\$ **ASSIGN**: Sunt mai putin de 6 grupuri in sirul de la intrare?.NumberOut True=
Sunt mai putin de 6 grupuri in sirul de la intrare?.NumberOut True + 1:NEXT(3\$);

22\$ **ASSIGN**: Sunt mai putin de 6 grupuri in sirul de la intrare?.NumberOut False=
Sunt mai putin de 6 grupuri in sirul de la intrare?.NumberOut False + 1:NEXT(13\$);

; Model statements for module: Seize 1

3\$ **QUEUE**, Sir_intrare;
SEIZE, 2, Other: Masa, AINT((Dimensiune_grup+1)/2):NEXT(24\$);

24\$ **DELAY**: 0.0,,VA:NEXT(5\$);

; Model statements for module: Delay 1

5\$ **DELAY**: MinutesToBaseTime(TRIA(15,18,20) + NORM(20,2)),,Other:NEXT(6\$);

; Model statements for module: Release 1

6\$ **RELEASE**: Masa, AINT((Dimensiune_grup+1)/2):NEXT(8\$);

```

; Model statements for module: Seize 2
8$ QUEUE, Clientii se aseaza la coada pentru a plati.Queue;
   SEIZE, 2,Other: Casier,1:NEXT(26$);

26$ DELAY: 0.0,,VA:NEXT(10$);

; Model statements for module: Delay 2
10$ DELAY: MinutesToBaseTime(NORM(2,0.5)),,Other:NEXT(11$);

; Model statements for module: Release 2
11$ RELEASE: Casier,1:NEXT(7$);

; Model statements for module: Dispose 1
7$ ASSIGN: Dispose 1.NumberOut=Dispose 1.NumberOut + 1;
27$ DISPOSE: Yes;

; Model statements for module: Seize 4
13$ QUEUE, Sir_suplimentar;
   SEIZE, 1,Other: Masa,AINT((Dimensiune_grup+1)/2):NEXT(29$);

29$ DELAY: 0.0,,VA:NEXT(5$);

; Model statements for module: Assign 2
2$ ASSIGN: Intrare=0:NEXT(7$);

```