

Obs	rep	person	patty	cheese	mayo	taste
1	1	1	1	1	1	14.0
2	1	1	1	0	0	11.5
3	1	1	0	1	0	12.0
4	1	1	0	0	1	12.5
5	2	3	1	1	1	10.0
6	2	3	1	0	0	8.0
7	2	3	0	1	0	7.0
8	2	3	0	0	1	9.0
9	1	2	1	1	0	13.0
10	1	2	1	0	1	14.0
11	1	2	0	1	1	13.0
12	1	2	0	0	0	10.0
13	2	4	1	1	0	13.0
14	2	4	1	0	1	15.0
15	2	4	0	1	1	14.0
16	2	4	0	0	0	11.0

The GLM Procedure

Class Level Information		
Class	Levels	Values
rep	2	1 2
person	4	1 2 3 4
patty	2	0 1
cheese	2	0 1
mayo	2	0 1

Number of Observations Read	16
Number of Observations Used	16

The GLM Procedure

Dependent Variable: taste

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	9	80.81250000	8.97916667	47.89	<.0001
Error	6	1.12500000	0.18750000		
Corrected Total	15	81.93750000			

R-Square	Coeff Var	Root MSE	taste Mean
0.986270	3.704922	0.433013	11.68750

Source	DF	Type I SS	Mean Square	F Value	Pr > F
person	3	55.68750000	18.56250000	99.00	<.0001
patty	1	6.25000000	6.25000000	33.33	0.0012
cheese	1	1.56250000	1.56250000	8.33	0.0278
mayo	1	16.00000000	16.00000000	85.33	<.0001
patty*cheese	1	0.25000000	0.25000000	1.33	0.2921
patty*mayo	1	0.06250000	0.06250000	0.33	0.5847
cheese*mayo	1	1.00000000	1.00000000	5.33	0.0603

Source	DF	Type III SS	Mean Square	F Value	Pr > F
person	3	55.68750000	18.56250000	99.00	<.0001
patty	1	6.25000000	6.25000000	33.33	0.0012
cheese	1	1.56250000	1.56250000	8.33	0.0278
mayo	1	16.00000000	16.00000000	85.33	<.0001
patty*cheese	1	0.25000000	0.25000000	1.33	0.2921
patty*mayo	1	0.06250000	0.06250000	0.33	0.5847
cheese*mayo	1	1.00000000	1.00000000	5.33	0.0603

The GLM Procedure

Source	Type III Expected Mean Square
person	Var(Error) + 4 Var(person)
patty	Var(Error) + Q(patty,patty*cheese,patty*mayo)
cheese	Var(Error) + Q(cheese,patty*cheese,cheese*mayo)
mayo	Var(Error) + Q(mayo,patty*mayo,cheese*mayo)
patty*cheese	Var(Error) + Q(patty*cheese)
patty*mayo	Var(Error) + Q(patty*mayo)
cheese*mayo	Var(Error) + Q(cheese*mayo)

The GLM Procedure
Tests of Hypotheses for Mixed Model Analysis of Variance

Dependent Variable: taste

	Source	DF	Type III SS	Mean Square	F Value	Pr > F
	person	3	55.687500	18.562500	99.00	<.0001
*	patty	1	6.250000	6.250000	33.33	0.0012
*	cheese	1	1.562500	1.562500	8.33	0.0278
*	mayo	1	16.000000	16.000000	85.33	<.0001
	patty*cheese	1	0.250000	0.250000	1.33	0.2921
	patty*mayo	1	0.062500	0.062500	0.33	0.5847
	cheese*mayo	1	1.000000	1.000000	5.33	0.0603
	Error: MS(Error)	6	1.125000	0.187500		
* This test assumes one or more other fixed effects are zero.						