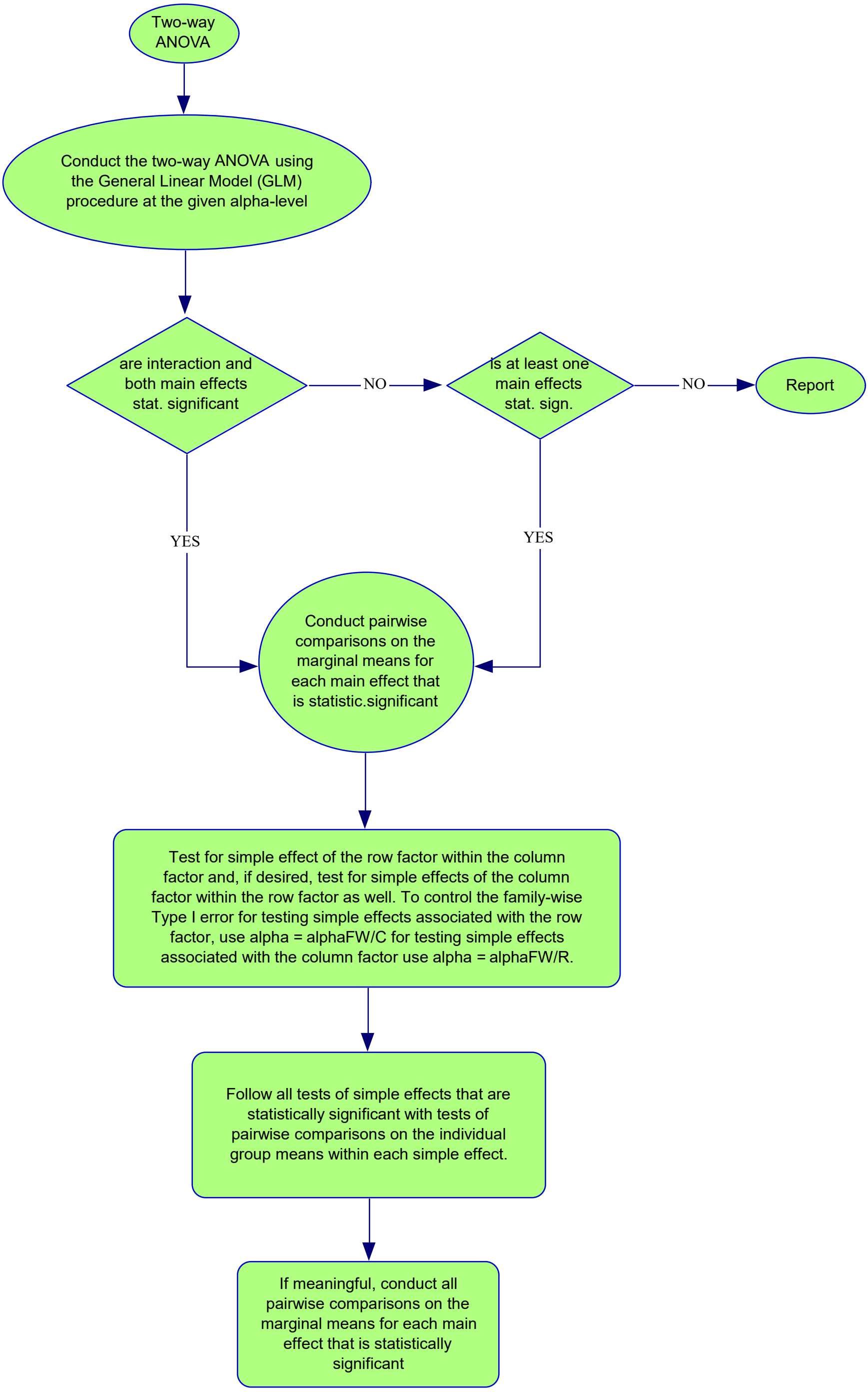
Two-way ANOVA
Conduct the two-way ANOVA using the General Linear Model (GLM) procedure at the given alpha-level
are interaction and both main effects stat. significant
NO
is at least one main effects stat. sign.
NO
Report
YES
YES
Conduct pairwise comparisons on the marginal means for each main effect that is statistic.significant
Test for simple effect of the row factor within the column factor and, if desired, test for simple effects of the column factor within the row factor as well. To control the family-wise Type I error for testing simple effects associated with the row factor, use alpha = alphaFW/C for testing simple effects associated with the column factor use alpha = alphaFW/R.
Follow all tests of simple effects that are statistically significant with tests of pairwise comparisons on the individual group means within each simple effect.
If meaningful, conduct all pairwise comparisons on the marginal means for each main effect that is statistically significant