DISEGNI UNIVARIATI CON UN SOLO FATTORE

$$SS_{A_{comp}} = \frac{\left[\sum(c_i)(Ta_i)\right]^2}{n\left[\sum(c_i)^2\right]}$$

$$SS_{A_{comp}} \text{ x } S_{.} = \frac{\sum_j^n\left[\sum_i^a(c_i)(x_{ij})\right]^2}{\sum(c_i)^2} - \frac{\left[\sum_i^a(c_i)(Ta_i)\right]^2}{n\left[\sum(ci)^2\right]}$$

$$CR_{LSD} = \sqrt{F\left(1, df_{S/A}\right)}\ \sqrt{2\ n\ (\ MS_{S/A}\ )}$$

$$CR_{D} = \frac{q'\left(r, df_{S/A}\right)}{\sqrt{2}}\sqrt{2\ n\ (\ MS_{S/A}\ )}$$

$$CR_{N\text{-}K} = \frac{q\left(r, df_{S/A}\right)}{\sqrt{2}}\sqrt{2n(\ MS_{S/A})}$$

$$CR_{T} = \frac{q\left(r_{max}, df_{S/A}\right)}{\sqrt{2}}\sqrt{2n(\ MS_{S/A})}$$

$$CR_{S} = \sqrt{(a-1)\ F\left(df_A, df_{S/A}\right)}\ \sqrt{2n(\ MS_{S/A})}$$

$$F_{S} = (a-1)\ F\left(df_A, df_{S/A}\right)$$

$$\text{Tukey critical sum} = q\left(r_{max}, df_{S/A}\right)\sqrt{n(\ MS_{S/A})}\ \left[\left(\tfrac{1}{2}\right)\left(\textstyle\sum|c_i|\right)\right]$$

$$CR_{Dunn} = d\left(c, df_{S/A}\right)\sqrt{2n(\ MS_{S/A})}$$

$$CR_{Dunnet} = q_D\left(k, df_{S/A}\right)\sqrt{2n(\ MS_{S/A})}$$

DISEGNI FATTORIALI CON DUE FATTORI

$$SS_{A \text{ sotto } B_{j.}} = \frac{\sum_{i}^{a}(Ta_i b_j)^2}{n} - \frac{(Tb_j)^2}{an} \qquad SS_{B \text{ sotto } A_{i.}} = \frac{\sum_{j}^{b}(Ta_i b_j)^2}{n} - \frac{(Ta_i)^2}{bn}$$

$$SS_{A_{comp.}} = \frac{\left[\sum(c_i)(Ta_i)\right]^2}{bn\left[\sum(c_i)^2\right]} \qquad SS_{B_{comp.}} = \frac{\left[\sum(c_j)(Tb_j)\right]^2}{an\left[\sum(c_j)^2\right]}$$

$$SS_{A_{comp.\ x\ B}} = \frac{\sum_{j}^{b}\left[\sum_{i}^{a}(c_i)(Ta_i b_j)\right]^2}{n\left[\sum(c_i)^2\right]} - SS_{A_{comp}} \qquad SS_{B_{comp.\ x\ A}} = \frac{\sum_{i}^{a}\left[\sum_{j}^{b}(c_j)(Ta_i b_j)\right]^2}{n\left[\sum(c_i)^2\right]} - SS_{B_{comp}}$$

$$SS_{A_{comp.\ sotto\ B_j}} = \frac{\left[\sum_{i}^{a}(c_i)(Ta_i b_j)\right]^2}{n\left[\sum(c_i)^2\right]} \qquad SS_{B_{comp.\ sotto\ A_i}} = \frac{\left[\sum_{j}^{b}(c_j)(Ta_i b_j)\right]^2}{n\left[\sum(c_i)^2\right]}$$

$$CR_T = \frac{q\left(r_{\max},\ df_{S\,/\,AB}\right)}{\sqrt{2}}\sqrt{2bn(MS_{S\,/\,AB})} \qquad CR_T = \frac{q\left(r_{\max},\ df_{S\,/\,AB}\right)}{\sqrt{2}}\sqrt{2an(MS_{S\,/\,AB})}$$

$$CR_S = \sqrt{(a-1)\,F(df_A,\ df_{S\,/\,AB})}\ \sqrt{2bn(MS_{S\,/\,AB})} \qquad CR_S = \sqrt{(b-1)\,F(df_B,\ df_{S\,/\,AB})}\ \sqrt{2an(MS_{S\,/\,AB})}$$

$$CR_T = \frac{q\left(r_{\max},\ df_{S\,/\,AB}\right)}{\sqrt{2}}\sqrt{2n(MS_{S\,/\,AB})}$$

$$CR_S = \sqrt{(a-1)\,F(df_A,\ df_{S\,/\,AB})}\ \sqrt{2n(MS_{S\,/\,AB})} \qquad CR_S = \sqrt{(b-1)\,F(df_B,\ df_{S\,/\,AB})}\ \sqrt{2n(MS_{S\,/\,AB})}$$

$$CR_T = \frac{q\left(ab,\ df_{S\,/\,AB}\right)}{\sqrt{2}}\sqrt{2n(MS_{S\,/\,AB})}$$

$$CR_S = \sqrt{(ab-1)\,F(ab\text{-}1,\ df_{S\,/\,AB})}\ \sqrt{2n(MS_{S\,/\,AB})}$$