var (y) = var (XB+Ig te) = var (XB)+ var(Eg)+ var = var (Zg) +var (e) = Z. vai(q). 2" + var(e)
R=I. Fe2 = 8.G.27. 62 + J. 62  $\frac{1}{x} \operatorname{Var}(c \cdot x) = c^2 \cdot \operatorname{var}(x)$   $\operatorname{var}(5 \cdot x) - 25 \cdot \operatorname{var}(x)$ Matrix - Vector: vector  $g = \left[\frac{g_1}{g_2}\right]^2$  varige). var(9) = [var(ga) cor(91,72) -- 910 cor(92192) var(92) var (29) \$ Z. var (9). 2" Sofar: Data sets where all animals had geroby