Chi Square Analysis > Categorical Data Analysis -> Categorical data > Non-neumonic -> Frequency Counts of one of More Colegories. Contingency Analysis -Chi square - goodness of Bit - Chi square test of Independence Feedback 700 7 Convention Execut - 8% 200 - Mgr V.good = 20/ 300 - Student good - 70% 200 Tearlos Foi8 = 2% Mittinomial E Contengency table Analyse Multinomial Dist - Afrabyse Muttinomial dist in in Multiple Dimension (> 2 var) Single dimension (1 vot) $S = \left\{ \left(f_{i} - f_{e} \right)^{n} \right\}$ S= fe fe fe fo = flag of obslowed values df = (91-1)(c-1)fe - fly of estimated values h - hows K = no of Catogories of - K-1-CC = Cohumns C= no of parameters estati mated \$ -> Apportunits (>1 var) Use X => when doing Hypothis (1 vog) Actor Expected extended a Standard technique based on Assumptions

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Parametric statistics => Statistical bechnique based on Assumptions about population Assemtions -> Normal distribution, X=0.05, Ho = TRue Non-Parametric Stat -> Very Jew Assuptions alst population when Compared to peranetric A SS. metris Assure Johnson Johnson KNOWE Dist Ho >3 sample of ocking Run test Smay Kinskal Wallin population population Monn. Blitmy Milconon Matched gair - Spearman's Rank Correlation -> Amount of Association 5th 2 variables

Amount of Association 5th 2 variables $A_s = 1 - 65d^2/n(n^2-1)$ $n \rightarrow no$ of pairs Orelated $d \rightarrow The$ difference in Rank of each pair