STAT 3015/4030/7030 GLMS 1/8/2017 Bank Wages Example Salary & Observation 9 B, -\$2,590.50

Sex=0 (Males) Sex=1 (females)

> $\hat{Y} = \hat{\beta}_{\delta} + \hat{\beta}_{i} \times$ = \hat{\beta}_0 + \hat{\beta}_1 Dser

where $D_{sex} = \begin{cases} 0 & \text{if Males} \\ 1 & \text{otherwise} \end{cases}$ for Females $D_{sex} = 1$ for Males Psen = 0

Y= Bo Y = Bo + B. 1 $=(\hat{\beta}_0+\hat{\beta}_1)$

Up we only need R-1 dummy variables to code the into for a k level factor variable The last or kth dummy variable is superfluous - It would The cabegory we choose to not have it's own indicator variable is the reference category (in treatment coding this is typically the control group) Constraint a Dref. cat. = 0

Sum constrasts / coding Use 0/1/-1 indicator variables { I if in cabegory 1 I if in reference cabegory 0 otherwise { -1 ref. cat. (=-1 \forall I, ... Ik-1) & we only need k-1 indicator variables

Sun Constraint & n; effect; =0
Suibably weighted for #units in category; all weights the
same