Stats 413 Assignment 4. 5.6. Vii = 7 1 Pf. E(Y/V, ...., Va-1) = no+ niv. + + + na. 1 vd-1 = 10+1, (1)+ .... + 1d7 Vo = 10+11+ .... + 10-1 Vo Since we need to prove that We know that \[ 2j = 0, Hence we can simple assume aj= > nj j=d Hence the overall mean is given by Hence the Level new n=j=j=1; Q.E.D When 12, 73 = 0. B . . Sp When N2=1, N3=0

When (Y2=0, N3=1

B .- Sp . - Sp 13

E( T( V., ... Va-1) = Matn. V. +1...+ Md-1 Vd-1 , we need to prove that Jeel mean jel. --- + vid -1) j= d | n.+n,+... + yd -1 j + d D EITI Y= n)= βο+βιαι-βιαι+βιας (Slope βι; intercept βο+βιαι-βιας) ① E(1)(x=α)=β.+β.x.+β.x.α.+βιsα.α. (Slope B.+β., α.+βι3α.) intercept β.) S E ([1x- α)= Bo+f. (α. - 8)+β. (α. - 8)α. β. β. (α. - 8)α. β. β. (Slope (β. + β. ) πο + β. 3 Ω ) intercept β. - δίβι+βια αι β. ε Ωι Then the plot of Y against X can be drawn by; no always assume Bo. B. B. Bs. Fs. Fiz. Bis, 8>0