(ov (U,V) and correlation) Determine co-efficient (4,v) Cov(u,v) = E(u,v) - E(u) * E(v) E[U x V) = 3 Reconstruct the table again with marginal of land V Marshy F Margind (V) u 1/2 marginal (W)+4 E(U) = E marginal (U) & U = /2+/2=1 E(V) = E margina (V) + V 1/2

E(U+V)= & & UV f(u,V) = \(\geq V \(\geq \mu \) \(\left(\mu, \nu)\) =) \(\sum \(\corple \corple \corple \(\corple \corple \corple \(\corple \corple \corple \corple \(\corple \corple \corple \corple \(\corple \corple \corple \corple \corple \(\corple \corple \corple \corple \(\corple \corple \corple \corple \corple \(\corple \corple \corple \corple \corple \corple \(\corple \(\corple \c H ≥ V [f(1,v)+2*f(2,v)) J = [(0, ff(1,v)+2+f(2,v))+(1*{f(1,1)+2*(2,1)} d ま(1,1)+2 かま(2,1) = /2+2(0) $C \cdot W'(U, v) = E(U, v) - E(U) + E(V)$ = /2 - (1) + (1/2) = /2-1/2 $\begin{bmatrix} Cov(u,v)=0 \end{bmatrix}$

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Cov(U,V) Correlation coefficient = But Cov (12, V) = 0 Corefficient = (Var(U) & Var (U) correlation-coefficient = 0