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① Attributes:

"Gender" → Is Female (F)

"Expanded Universe Fan" → Is A Fan of the Expanded Universe (U)

"Rate Princess Leia" → Likes Princess Leia (L)

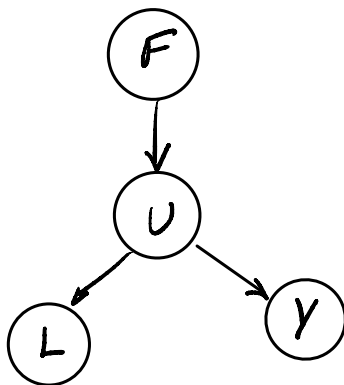
"Rate Yoda" → Likes Yoda (Y)

• Tables done without enumeration ask... tables were done manually in code for practice.

F	P(F)
Female (F)	0.49
Not Female (-F)	0.51

F	U	P(U F)
Female (F)	Likes Expanded Universe (U)	0.17
Female (F)	Does not like Expanded Universe (-U)	0.83
Not Female (-F)	Likes Expanded Universe (U)	0.34
Not Female (-F)	Does not like Expanded Universe (-U)	0.66

U	L	P(L U)
Likes Expanded Universe (U)	Likes Princess Leia (L)	0.72
Likes Expanded Universe (U)	Does not like P. Leia (-L)	0.28
Does not like Expanded Universe (-U)	Likes Princess Leia (L)	0.64
Does not like Expanded Universe (-U)	Does not like P. Leia (-L)	0.35



U	Y	P(Y U)
Likes Expanded Universe (U)	Likes Yoda (Y)	0.72
Likes Expanded Universe (U)	Does not like Yoda (-Y)	0.28
Does not like Expanded Universe (-U)	Likes Yoda (Y)	0.64
Does not like Expanded Universe (-U)	Does not like Yoda (-Y)	0.36

3. Given evidence of (F)emale = T now finding U...

$$P(U|F) = \frac{P(U, F)}{P(F)} = \frac{67/807}{(392/807)} = \frac{0.083}{0.486} = 0.17 \quad \star$$

5.
$$P(L|U) = \frac{P(L, U)}{P(U)} = \frac{151/807}{210/807} = \frac{0.187}{0.260} \approx 0.71 \quad \star$$

★ Results match.