

User	
id	int
age	int
country	string
gender	string



Review	
id	int
user_id	int
movie_id	int
review	string
rating	int

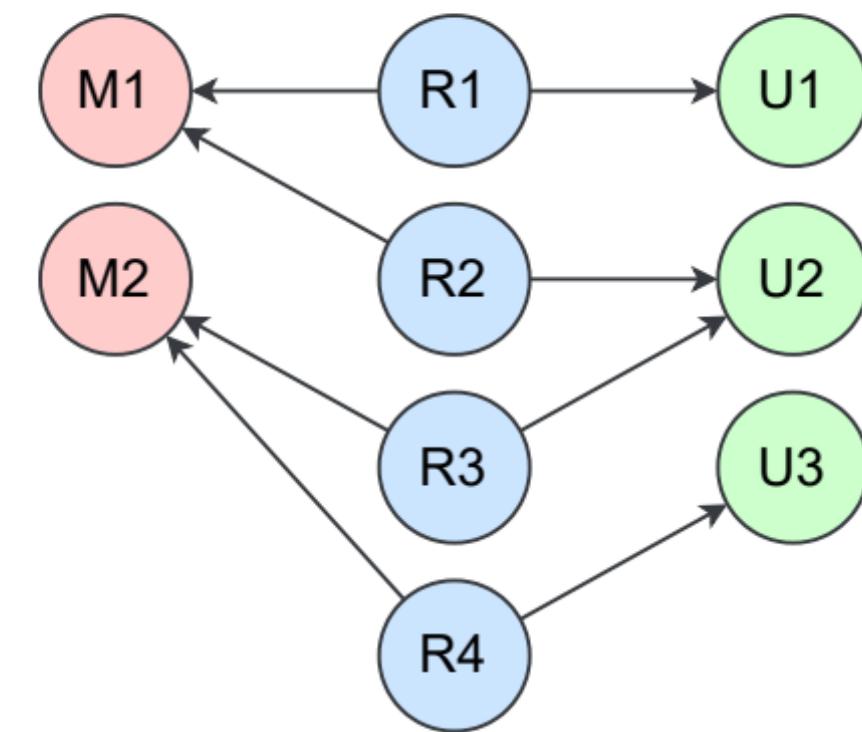
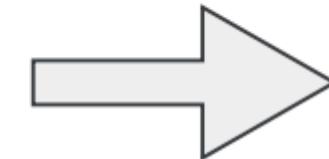
Movie	
id	int
genre	string
year	int
country	string

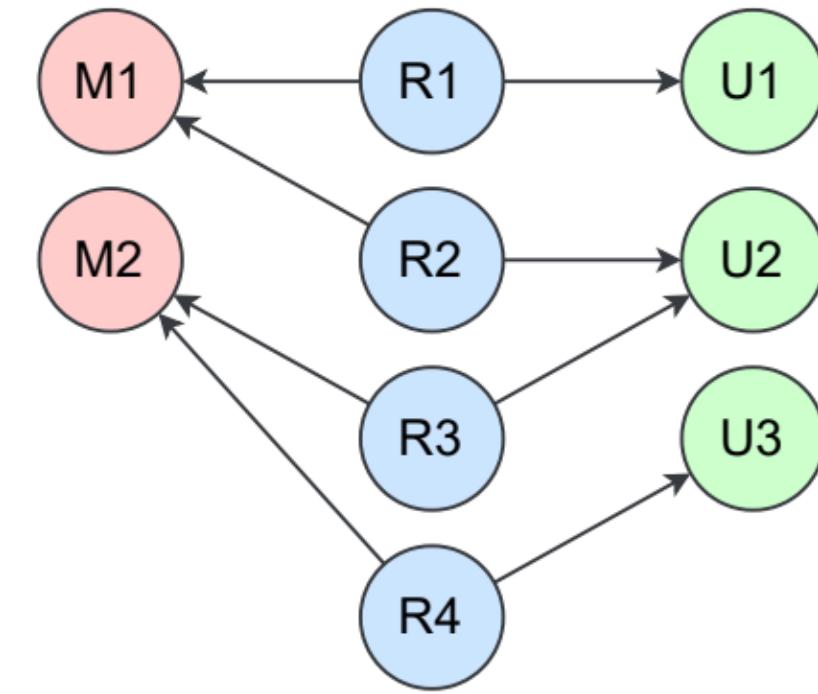
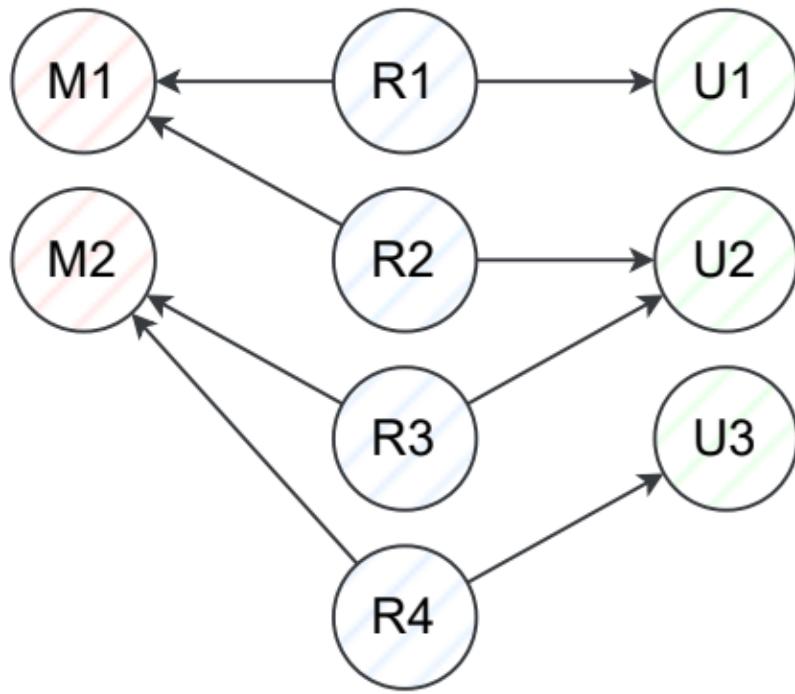


Users			
id	age	country	gender
U1	29	IT	M
U2	18	DE	NaN
U3	42	CN	F

Movies			
id	genre	year	country
M1	action	1992	US
M2	comedy	2014	UK

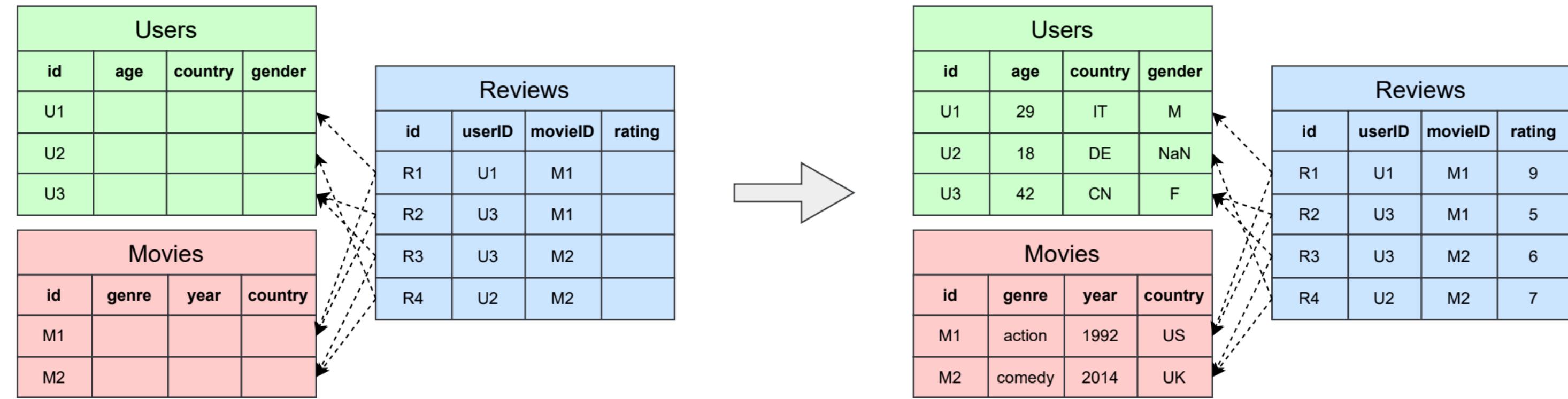
Reviews			
id	userID	movieID	rating
R1	U1	M1	9
R2	U3	M1	5
R3	U3	M2	6
R4	U2	M2	7





$G \sim p(G)$
(scalable graph model)

$X \sim p(X | G)$
(deep generative model)



$G \sim p(G)$
(scalable graph model)

$X \sim p(X | G)$
(deep generative model)

