

Un-Normalized Data			
Movie	Rating	Genre	Director Name
Ice Age	PG	Family/Animation	Chris Wedge
Lion King	G	Family/Musical	Rob Minkoff
Deadpool	R	Action/Adventure	Tim Miller
Terminator	R	Action/SciFi	Tim Miller
Matrix	R	Action/SciFi	Lily Wachowski

PK = Primary Key
FK = Foreign Key
CK = Candidate Key

Cardinality:

MOVIE to GENRE: many to many
-it's bridge: Gen/Movie
Director to Movie: 1 to many
Rating to Movie: 1 to many

Movie - Normalized Data			
Movie ID (PK, CK)	Movie Name (CK)	Rating ID (FK)	Director ID (FK)
1	Ice Age	111	1111
2	Lion King	112	1112
3	Deadpool	113	1113
4	Terminator	113	1113
5	Matrix	113	1114

Genre/Movie Bridge	
Movie ID (FK)	Genre ID (FK)
1	11
1	12
2	11
2	14
3	13
3	15
4	13
4	16
5	16

Rating	
Rating ID (PK, CK)	Rating (CK)
111	PG
112	G
113	R

Director ID (PK, CK)	Director First (CK)	Director Last (CK)
1111	Chris	Wedge
1112	Rob	Minkoff
1113	Tim	Miller
1114	Lily	Wachowski

Genre	
Genre ID (PK, CK)	Genre (CK)
11	Family
12	Animation
13	Action
14	Musical
15	Adventure
16	SciFi