H05 - Algebra Relacional

1) A = π first_name, last_name (actors)
   B = π first_name, last_name (directors)
   A ∩ B

2) A = π first_name, last_name (actors)
   B = π first_name, last_name (directors)
   A - B

3) A = π first_name, last_name (actors)
   B = π first_name, last_name (directors)
   A ∪ B

4) A = π id (movies)
   B = π movie_id (movies_directors)
   C = A - B
   D = ρ idm←id (C)
   E = D ⋈ idm = id movies
   π name (E)

5) A = γ actor_id; count(movie_id)→Total (roles)

B = σ Total >= 2 (A)

C = π actor_id (B)

D = π id (actors)

E = D - C

F = ρ ida←id (E)

G = F ⋈ ida = id actors

π first_name, last_name (G)

6) A = γ movie_id; count(actor_id)→Total (roles)

B = σ Total >= 2 (A)

C = π movie_id (B)

D = π id (movies)

E = D - C

F = ρ idm←id (E)

G = F idm = id movies⋈

H = G ⋈ id = movie_id movies_genres

γ genre, year;count(id)→Total (H)