1-

A = π first_name, last_name actors
B = π first_name, last_name directors
C = A ∩ B
π first_name,last_name C

2-

A = π first_name, last_name actors
B = π first_name, last_name directors
C = A - B
π first_name,last_name C

3-

A = π first_name, last_name actors
B = π first_name, last_name directors
C = A ∪ B
π first_name,last_name C

4-

TodosFilmes = πname, id (movies)
FilmesComDiretores = πid (movies⋈movies.id = movies_directors.movie_id movies_directors)
FilmesSemDiretores = πid TodosFilmes - FilmesComDiretores
pi name (FilmesSemDiretores⋈movies)

5-

NumFilmes = γactor_id;count(movie_id) → num_filmes(roles)
AtoresMenosDeDoisFilmes = sigma num_filmes < 2 (NumFilmes)
π first_name,last_name (AtoresMenosDeDoisFilmes⋈actors)

6- NumAtores = γmovie_id;count(actor_id) → num_atores(roles)
MenosDoisAtores = sigma num_atores < 2 (NumAtores)

GenerosAno = MenosDoisAtores ⋈ movies ⋈ movies_genres
γgenre, year; avg(num_atores) → media_filmes (GenerosAno)