

HO04

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1) π first_name, last_name (σ gender='F'(actors))

2) π name (σ year>1999(movies))

3) a = (directors \bowtie id = director_id (movies_directors))
b = movies \bowtie id = movies_directors.movie_id (a)
 π movies.name, directors.first_name, directors.last_name (b)

4) a = (actors \bowtie id = actor_id (roles))
b = movies \bowtie id = roles.movie_id (a)
 π movies.name, actors.first_name, actors.last_name, roles.role (σ rank>6(b))

5) a = (directors \bowtie id = director_id (movies_directors))
b = movies \bowtie id = movies_directors.movie_id (a)
 γ directors.first_name ; count(movies.id)->quantidade (b)

6) a = movies \bowtie id = movie_id (movies_genres)
 γ movies_genres.genre ; count(movies.id)->quantidade (a)

7) a = movies \bowtie id = movie_id (movies_genres)
 γ movies_genres.genre ; AVG(movies.rank)->media , MIN(movies.rank)->minimo,
MAX(movies.rank)->maximo (a)