Resolución Parcialito, Algebra Relacional - RelaX

1. Muestre las películas dirigidas por 'Scorsese' de la década de 1970 (del año 1970 al año 1979).

Consulta:

 π id, name, year, quality (π movie_id (π id (σ directors.last_name = 'Scorsese' directors) \bowtie id = director_id movies_directors) \bowtie movie_id = id σ year > 1969 and year < 1980 movies)

Resultado:

| movies.id | movies.name | movies.year | movies.quality |
|-----------|---------------|-------------|----------------|
| 326155 | 'Taxi Driver' | 1976 | 1 |

2. Muestre la/las películas que fueron dirigidas por Hitchcock (Alfred (I)) en las cuales Hitchcock además es actor.

Consulta:

 π id, name, year, quality ((π movie_id (π id (σ directors.last_name = 'Hitchcock' directors) \bowtie directors.id = director_id movies_directors) \cap π movie_id (π id (σ actors.last_name = 'Hitchcock' and actors.first_name = 'Alfred (I)' actors) \bowtie id = actor_id roles) \bowtie movie_id = id movies)

| movies.id | movies.name | movies.year | movies.quality | |
|-----------|------------------------|-------------------|----------------|--|
| 235062 | 'North by Northwest' | y Northwest' 1959 | | |
| 235676 | 'Notorious' | 1946 | 1 | |
| 266574 | 'Psycho' | 1960 | 1 | |
| 273543 | 'Rear Window' | 1954 | 1 | |
| 316323 | 'Strangers on a Train' | 1951 | 1 | |
| 352639 | 'Vertigo' | 1958 | 1 | |

3. Nombre todas las películas en que participó por lo menos un actor de la película ' Life of Brian'. Muestre el título de la película y el actor, omita en la respuesta ' Life of Brian'.

Consulta:

 π movies.name, actors.first_name, actors.last_name (σ movies.name \neq 'Life of Brian' π movies.name, roles.actor_id (π roles.movie_id, roles.actor_id (σ actor_id (π id σ name = 'Life of Brian' movies \bowtie id = movie_id roles) \bowtie ac.actor_id = roles.actor_id roles) \bowtie movie_id = id movies) \bowtie roles.actor_id = id actors)

| movies.name | actors.first_name | actors.last_name |
|---|-------------------|------------------|
| 'Monty Python and the Holy Grail' | 'Graham' | 'Chapman' |
| 'Monty Python and the Holy Grail' | 'John' | 'Cleese' |
| 'Star Wars: Episode V - The Empire Strikes Back' | 'Kenneth' | 'Colley' |
| 'Star Wars: Episode VI - Return of the Jedi' | 'Kenneth' | 'Colley' |
| 'Monty Python and the Holy Grail' | 'Terry' | 'Gilliam' |
| 'Monty Python and the Holy Grail' | 'Eric' | 'Idle' |
| 'Monty Python and the Holy Grail' | 'Neil' | 'Innes' |
| 'Monty Python and the Holy Grail' | 'Terry (I)' | 'Jones' |
| 'Monty Python and the Holy Grail' | 'Charles' | 'Knode' |
| 'Monty Python and the Holy Grail' | 'Michael' | 'Palin' |

4. Mostrar los nombres y años de filmación, de la/las películas de género dramático (Drama) más vieja/s de la base.

Consulta:

π name, movies.year ((π movie_id σ genre = 'Drama' movies_genres \bowtie movie_id = id movies) \bowtie year = anio.year (ρ anio π year movies - π movies.year (σ movies.year > movies_2.year (π year movies × ρ movies_2 π year movies))

| movies.name | movies.year |
|--------------|-------------|
| 'Metropolis' | 1927 |

5. Muestre la/las películas que han sido dirigidas con más de 2 directores.

Consulta:

(π d1.movie_id (σ d1.id \neq d2.id and d2.id \neq d3.id and d1.id \neq d3.id ((ρ d1 π directors.id, movies_directors.movie_id (directors \bowtie id = director_id movies_directors) \bowtie d1.movie_id = d2.movie_id ρ d2 π directors.id, movies_directors.movie_id (directors \bowtie id = director_id movies_directors)) \bowtie d2.movie_id = d3.movie_id ρ d3 π directors.id, movies_directors.movie_id (directors \bowtie id = director_id movies_directors))) \bowtie movie_id = id movies

| d1.movie_id | movies.id | movies.name | movies.year | movies.quality |
|-------------|-----------|-------------------------|-------------|----------------|
| 131240 | 131240 | 'Gone with the Wind' | 1939 | 1 |