

Лабораториска вежба 2

From relaX

1. Најди ги имињата на сите филмови од жанрот Sci-Fi.
 π Title (σ Name= 'Sci-Fi'(Genres \bowtie Movies))
2. Најди ги имињата и презимињата на сите личности кои биле дел од филм со времетраење подолго од 150 минути или имале буџет поголем од 200 000 000.
people = Persons \bowtie PersonsMovies
people_movies = people \bowtie Movies
res = π Firstname,Lastname (σ Runtime > 150 \vee Budget > 200000000
(people_movies))
res
3. Најди ги имињата на сите филмови од James Cameron со времетраење пократко од 120 минути или подолго од 180 минути.

p_m = (Persons \bowtie PersonsMovies) \bowtie Movies
j_c = σ Firstname='James' \wedge Lastname='Cameron' (p_m)
r = π Title (σ Runtime < 120 \vee Runtime > 180 (j_c)) r

4. Најди ги сите филмови кои имаат продолжение или се од жанрот Action.

m_g = Movies \bowtie Genres
action = π
Movie_ID,Title,ReleaseDate,Genre_ID,Budget,OpeningWeek,Profit,R
untime,Certificate,SequelOf,Distribution(σ Name = 'Action' (m_g))
sequel =p id \leftarrow Movie_ID, t \leftarrow Title, r \leftarrow ReleaseDate, g \leftarrow Genre_ID,
b \leftarrow Budget, o \leftarrow OpeningWeek, p \leftarrow Profit, rt \leftarrow Runtime, C
 \leftarrow Certificate, sq \leftarrow SequelOf, d \leftarrow Distribution (Movies) \bowtie Movies.sq
= Movies.Movie_ID (Movies)

```

r = action  $\cup$   $\pi$ 
Movie_ID, Title, ReleaseDate, Genre_ID, Budget, OpeningWeek, Profit, Runtime, Certificate, SequelOf, Distribution (sequel)
r

```

5. Најди ги сите филмови кои имаат продолжение и се од жанрот Action.

```

m_g = Movies  $\bowtie$  Genres
action =  $\pi$ 
Movie_ID, Title, ReleaseDate, Genre_ID, Budget, OpeningWeek, Profit, Runtime, Certificate, SequelOf, Distribution ( $\sigma$  Name = 'Action' (m_g))
sequel =  $\rho$  id  $\leftarrow$  Movie_ID, t  $\leftarrow$  Title, r  $\leftarrow$  ReleaseDate, g  $\leftarrow$  Genre_ID, b  $\leftarrow$  Budget, o  $\leftarrow$  OpeningWeek, p  $\leftarrow$  Profit, rt  $\leftarrow$  Runtime, C  $\leftarrow$  Certificate, sq  $\leftarrow$  SequelOf, d  $\leftarrow$  Distribution (Movies)  $\bowtie$  Movies.sq =
Movies.Movie_ID (Movies)
r = action  $\cap$   $\pi$ 
Movie_ID, Title, ReleaseDate, Genre_ID, Budget, OpeningWeek, Profit, Runtime, Certificate, SequelOf, Distribution (sequel)
r

```

6. Најди ги сите филмови кои немаат продолжение (sequel).

```

sequel =  $\rho$  id  $\leftarrow$  Movie_ID, t  $\leftarrow$  Title, r  $\leftarrow$  ReleaseDate, g  $\leftarrow$  Genre_ID, b  $\leftarrow$  Budget, o  $\leftarrow$  OpeningWeek, p  $\leftarrow$  Profit, rt  $\leftarrow$  Runtime, C  $\leftarrow$  Certificate, sq  $\leftarrow$  SequelOf, d  $\leftarrow$  Distribution (Movies)  $\bowtie$  Movies.sq =
Movies.Movie_ID (Movies)
pom =  $\pi$ 
Movie_ID, Title, ReleaseDate, Genre_ID, Budget, OpeningWeek, Profit, Runtime, Certificate, SequelOf, Distribution sequel
r = Movies - pom
r

```