

**PS 1: Problem 16**  
**Relational-algebra queries**

**problem 16.1**

PROJECT{Oscar.year, Oscar.type, movie.name}(SELECT{Person.name = 'Meryl Streep'})(JOIN{Oscar.movie\_id = Movie.id}, {Oscar.person\_id = Person.id})

**problem 16.2**

PROJECT{Actor.id}(JOIN{Actor.movie\_.id = Movie.id}) – PROJECT{Actor.id}(SELECT{Movie year >= 2010})(JOIN{Actor.movie\_.id = Movie.id})

**problem 16.3**

PROJECT{Person.name, Oscar.type, Oscar.year}(SELECT{Person.pob LIKE '%Spain'})(LEFT OUTER JOIN{Person.id = Oscar.person\_id}