PS 1: Problem 16 Relational-algebra queries

problem 16.1

```
Project{name, year} (SELECT {type LIKE 'BEST-PICTURE' & year BETWEEN 2010 & 2019} (JOIN {movie_id = id} (Movie ⋈ Oscar)
```

problem 16.2

```
WITH Top25GrossingMovies AS (PROJECT{id, name, earnings_rank}
(SELECT{} (ORDER BY{earnings_rank}(LIMIT 25(Movie)))))
PROJECT{earnings_rank, name AS movie_name, type AS award_type}(JOIN{id = movie_id}(Top25GrossingMovies ⋈ Oscar))
```

problem 16.3

```
JOIN{O2.person_id NOT IN {SELECT{(O2.type IN ('BEST-ACTOR', 'BEST-ACTRESS'))}(Oscar O2)}}(

{
    Oscar O2
    }
    )
    }
    GROUP BY{P.id HAVING{COUNT(DISTINCT O.type) = 1}}
)

AS SupportingOnlyWinners;
```