Extra Practice Writing Queries

Person(id, name, dob, pob) Movie(id, name, year, rating, runtime, genre, earnings_rank) Actor(actor_id, movie_id) Director(director_id, movie_id) Oscar(movie_id, person_id, type, year)

1) Find the ids and names of everyone in the database who acted in *Avatar*.

```
SELECT P.id, P.name
FROM Person P, Actor A, Movie M
WHERE P.id = A.actor_id
AND M.id = A.movie_id
AND M.name = 'Avatar';
```

Extra Practice Writing Queries (cont.)	
Person(id, name, dob, pob) Movie(id, name, year, rating, runtime, genre, earnings_rank) Actor(actor_id, movie_id) Director(director_id, movie_id) Oscar(movie_id, person_id, type, year)	
<pre>2) How many people in the database did <u>not</u> act in Avatar? Will this work? SELECT COUNT(*) FROM Person P, Actor A, Movie M WHERE P.id = A.actor_id AND M.id = A.movie_id AND M.name != 'Avatar';</pre>	
<pre>If not, what will? SELECT COUNT(*) FROM Person WHERE id NOT IN (SELECT actor_id FROM Actor A, Movie M WHERE A.movie_id = M.id AND M.name = 'Avatar');</pre>	

Extra Practice Writing Queries (cont.)

Person(id, name, dob, pob) Movie(id, name, year, rating, runtime, genre, earnings_rank) Actor(actor_id, movie_id) Director(director_id, movie_id) Oscar(movie_id, person_id, type, year)

3) How many people in the database who were born in California have won an Oscar? (assume dob format is city, state, country)

```
SELECT COUNT(DISTINCT P.id)
FROM Person P, Oscar O
WHERE P.id = 0.person_id
AND P.pob LIKE '%,%California, USA';
```







Extra Practice Writing Queries (cont.)

Person(id, name, dob, pob) Movie(id, name, year, rating, runtime, genre, earnings_rank) Actor(actor_id, movie_id) Director(director_id, movie_id) Oscar(movie_id, person_id, type, year)

5) Which movie ratings have an average runtime that is greater than 120 minutes, and what are their average runtimes?

SELECT rating, AVG(runtime)
FROM Movie
GROUP BY rating
HAVING AVG(runtime) > 120;

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