

Extra Practice Writing Queries

- 1) Find the names of all people in the database who acted in *Avatar*.

- SQL:

```
SELECT 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';
```

- MongoDB:

Extra Practice Writing Queries

- 1) Find the names of all people in the database who acted in *Avatar*.

- SQL:

```
SELECT 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';
```

- MongoDB:

```
db.movies.find( { name: "Avatar" },
                { "actors.name": 1, _id: 0 } )

-or-

db.movies.aggregate(
  { $match: { name: "Avatar" } },
  { $project: { actors: "$actors.name", _id: 0 } }
)
```

Extra Practice Writing Queries (cont.)

- 2) How many people in the database who were born in California have won as Oscar?

- SQL:

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

- Can't easily answer this question using our MongoDB version of the database. Why not?

Extra Practice Writing Queries (cont.)

2) How many people in the database who were born in California have won as Oscar?

- SQL:

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

- Can't easily answer this question using our MongoDB version of the database. Why not?

queries using `find()` are limited to a single collection