

Jed Mendoza A 00846927  
Arjun Sundaram 01259862

*In a PDF file, attach copies of running your mongo commands and the output. In a text file, include the mongo commands for the GTAs to run your queries.*

1. 

```
video> db.movieDetails.count({ "director": "George Lucas"})
4
```
2. 

```
video> db.movieDetails.find({
...   "year": 2010,
...   "rated": "PG"
... }, {
...   "_id": 0,
...   "title": 1,
...   "director": 1
... })
[
  {
    title: 'The Extraordinary Adventures of AdÃfÃ"le Blanc-Sec',
    director: 'Luc Besson'
  },
  { title: 'The Karate Kid', director: 'Harald Zwart' },
  { title: 'Diary of a Wimpy Kid', director: 'Thor Freudenthal' }
]
```
3. 

```
video> db.movieDetails.find({"rated": "PG", "awards.nominations": 10}, { "_id": 0, "title": 1})
[
  { title: 'The Adventures of Sharkboy and Lavagirl 3-D' },
  { title: 'Honey I Blew Up the Kid' },
  { title: 'Au Revoir Les Enfants' }
]
```
4. 

```
video> db.movieDetails.count({$or: [{ "awards.wins": 1 }, { "awards.nominations": 3 } ]})
244
```
5. 

```
video> db.movieDetails.count({ "metacritic": { $exists: false } })
1873
```
6. 

```
video> db.movieDetails.findOne({ "writers": ["Ethan Coen", "Joel Coen"]}, { "_id": 0, "title": 1, "imdb.rating": 1})
{ title: 'The Big Lebowski', imdb: { rating: 8.2 } }
```
7. 

```
video> db.movieDetails.count({ "genres": "Family" })
124
```
8. 

```
video> db.movieDetails.count({ "genres.1": "Western" })
14
```
9. 

```
video> db.movieDetails.count({"imdb.rating": { $gt: 8 }, "plot": { $ne: null }})
137
```

```
10. ... {$project: {_id: 0, title: 1, leadingActor: { $arrayElemAt: ["$actors", 0] }}}))  
[  
  { title: 'The Big Lebowski', leadingActor: 'Jeff Bridges' },  
  { title: 'No Country for Old Men', leadingActor: 'Tommy Lee Jones' },  
  { title: "Paris, je t'aime", leadingActor: 'Florence Muller' }  
]
```