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2 a)

// To create the collection inside the database

```
{ ok: 1 }
```

// Insert the multiple values or document

```
{ acknowledged: true,
```

```
  insertedIds: {
```

```
    '0': ObjectId('67dbba88a7aa462217671236'),
```

```
    '1': ObjectId('67dbba88a7aa462217671237'),
```

```
    '2': ObjectId('67dbba88a7aa462217671238')  
  }  
}
```

// To select only title and director fields from Movies collection

```
[ { title: 'Inception', director: 'Christopher Nolan' },
```

```
  { title: 'The Matrix', director: 'Wachowskis' },
```

```
  { title: 'The Godfather', director: 'Francis Ford  
    Coppola' }  
]
```


Experiment : 2

20/03/2025

2 a) Develop a MongoDB query to select certain fields and ignore some fields of the documents from any collection.

a. use MoviesDB.

// To create the collection inside the database

Query:

```
MoviesDB >> db.createCollection("Movies")
```

// Insert the multiple values or documents

Query:

```
MoviesDB >> db.Movies.insertMany([
  { title: "Inception", director: "Christopher Nolan",
    genre: "Science Fiction", year: 2010, ratings: {
      imdb: 8.8, rottenTomatoes: 87 % } },
  { title: "The Matrix", director: "Wachowskis",
    genre: "Science Fiction", year: 1999, ratings: {
      imdb: 8.7, rottenTomatoes: 87 % } },
  { title: "The Godfather", director: "Francis
    Ford Coppola", genre: "Crime", year: 1972,
    ratings: { imdb: 9.2, rottenTomatoes: 97 % } }
]);
```

// To select only the title and director fields from the Movies collection.

Query:

```
MoviesDB >> db.Movies.find({ }, { title: 1, director: 1,
  _id: 0 })
```


// To exclude the ratings field from the results:

```
[ {
  _id: ObjectId('67dbba88a7aa4b2217671236'),
  title: 'Inception',
  director: 'Christopher Nolan',
  genre: 'Science Fiction',
  year: 2010
},
{
  _id: ObjectId('67dbba88a7aa4b2217671237'),
  title: 'The Matrix',
  director: 'Machowski',
  genre: 'Science Fiction',
  year: 1999
},
{
  _id: ObjectId('67dbba88a7aa4b2217671238'),
  title: 'The Godfather',
  director: 'Francis Ford Coppola',
  genre: 'Crime',
  year: 1972
} ]
```

// Combining Filter and Projection

```
[ { title: 'Inception', year: 2010 } ]
```


// To exclude the ratings field from the results:

Query:

MoviesDB >> db.Movies.find({},{ ratings: 0 })

// Combining Filter and Projection.

Query:

MoviesDB >> db.Movies.find({ director: "Christopher Nolan" },
{ title: 1, year: 1, _id: 0 })

// To create the collection inside the database
 { ok : 1 }

// To insert the multiple values or documents.

{
 acknowledged : true,
 insertedIds : {

'0' : ObjectId('67dbbf65a7aa4b2217b71239'),
 '1' : ObjectId('67dbbf65a7aa4b2217b7123a'),
 '2' : ObjectId('67dbbf65a7aa4b2217b7123b'),
 '3' : ObjectId('67dbbf65a7aa4b2217b7123c'),
 '4' : ObjectId('67dbbf65a7aa4b2217b7123d'),
 '5' : ObjectId('67dbbf65a7aa4b2217b7123e'),
 '6' : ObjectId('67dbbf65a7aa4b2217b7123f')

}
 }

- 2.6. Develop a MongoDB query to display the first 5 documents from the results obtained in [use of limit and find].

b. use MoviesDB

// To create the collection inside the database
Query:

```
MoviesDB >> db.createCollection("Movies")
```

// To insert the multiple values or documents.

Query:

```
MoviesDB >> db.Movies.insertMany([
  { title: "Inception", director: "Christopher Nolan",
    genre: "Science Fiction", year: 2010, ratings:
    { imdb: 8.8, rottenTomatoes: 87 % },
  { title: "The Matrix", director: "Wachowskis",
    genre: "Science Fiction", year: 1999, ratings:
    { imdb: 8.7, rottenTomatoes: 87 % },
  { title: "The Godfather", director: "Francis Ford Coppola",
    genre: "Crime", year: 1972, ratings:
    { imdb: 9.2, rottenTomatoes: 97 % },
  { title: "Pulp Fiction", director: "Quentin Tarantino",
    genre: "crime", year: 1994, ratings:
    { imdb: 8.9, rottenTomatoes: 92 % },
  { title: "The Shawshank Redemption", director:
    "Frank Darabont", genre: "Drama", year: 1994,
    ratings: { imdb: 9.3, rottenTomatoes: 91 % },
  { title: "The Dark knight", director: "Christopher Nolan",
    genre: "Action", year: 2008, ratings:
```


// Query with Projection and Limit

- { title: 'Inception', director: 'Christopher Nolan',
year: 2010 },
- { title: 'The Matrix', director: 'Wachowskis', year:
1999 },
- { title: 'The Godfather',
director: 'Francis Ford Coppola',
year: 1972
,
- { title: 'Pulp Fiction', director: 'Quentin Tarantino',
year: 1994 },
- { title: 'The Shawshank Redemption',
director: 'Frank Darabont',
year: 1994
,

}


```
{ imdb: 9.0, rottenTomatoes: 94 % },  
{ title: "Fight Club", director: "David Fincher",  
  genre: "Drama", year: 1999, ratings: { imdb:  
    8.8, rottenTomatoes: 79 % }  
}]
```

// Query with Projection and Limit.

```
MoviesDB >> db.Movies.find ({ title: 1, director: 1,  
  year: 1, _id: 0 }).limit(5)
```