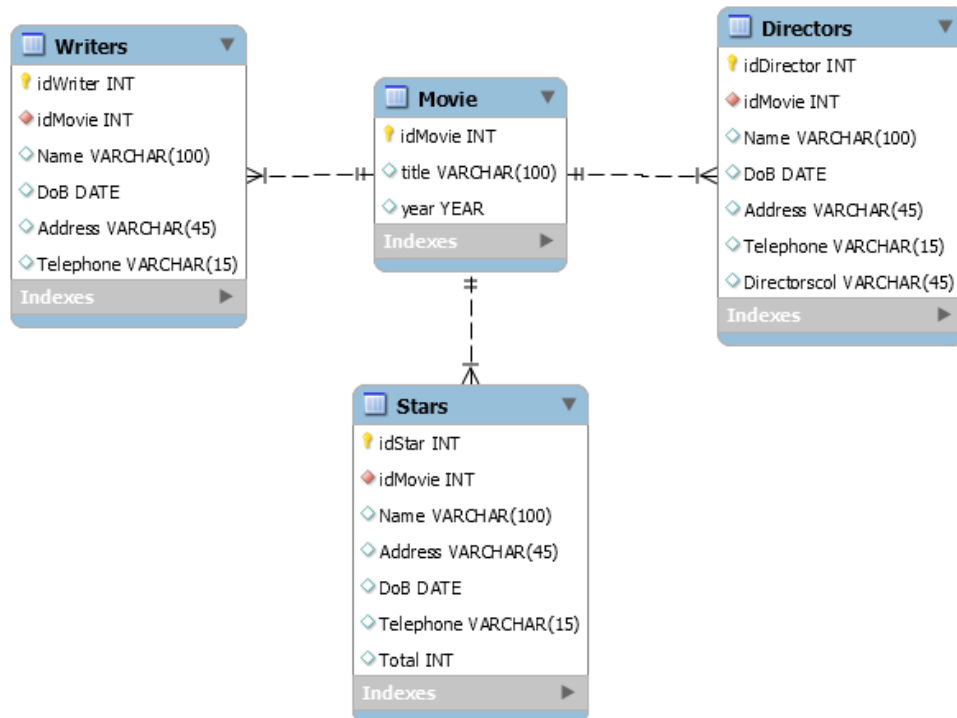**Consider the following moviedata which contains information on movies, directors, writers and stars. Based on this data, draw an ER diagram representing how you would translate this into a relational database. Suppose you would also like to store details on stars e.g. DOB, address, tel. Include this in your ER diagram also.**

JSON code and mongodb

use mdata (mdata will be the movie database)

db.mdata.insert(JSON code) (screenshot)

Insert movie The Matrix

```
C:\MongoDB\bin>COLOR 1F

C:\MongoDB\bin>start /B /WAIT "Mongo 27017" mongo
MongoDB shell version: 3.0.1
connecting to: test
Welcome to the MongoDB shell.
For interactive help, type "help".
For more comprehensive documentation, see
        http://docs.mongodb.org/
Questions? Try the support group
        http://groups.google.com/group/mongodb-user
>
> use mdata
switched to db mdata
> db.mdata.insert(
... {
...      "idMovie": "M001",
...      "title": "The Matrix",
...      "year": "1999",
...      "Directors": [
...
...          {
...              "idDirector": "D001",
...              "Name": "Andy Wachowski",
...              "DoB": "22/02/1964",
...              "Address": "California",
...              "Telephone": "67868568"
...          },
...
...          {
...              "idDirector": "D002",
...              "Name": "Lana Wachowski",
...              "DoB": "12/02/1963",
...              "Address": "New York",
...              "Telephone": "62368238"
...          }
...      ],
...
...      "Writers": [
...
...          {
...              "idWriter": "W001",
...              "Name": "Andy Wachowski",
...              "DoB": "22/02/1964",
...              "Address": "California",
...              "Telephone": "67868568"
...          },
...
...          {
...              "idDirector": "w002",
...              "Name": "Lana Wachowski",
...              "DoB": "12/02/1963",
...              "Address": "New York",
...              "Telephone": "62368238"
...          }
...      ],
...      "Stars": [{
...          "idStar": "S001",
...          "Name": "Keanu Reeves",
...          "DoB": "22/01/1964",
...          "Address": "San Francisco",
...          "Telephone": "67863338",
...          "Total": " "
...      }, {
...          "idStar": "S002",
...          "Name": "Laurence Fishburne",
...          "DoB": "12/04/1963",
...          "Address": "Nan Jing",
...          "Telephone": "62444238",
```

```
...           "Telephone": "62447738",
...           "Total": " "
...       }]
... });
WriteResult({ "nInserted" : 1 })
> db.mdata.find().pretty();
{
        "_id" : ObjectId("5513d0be7bb5d3059143fb10"),
        "idMovie" : "M001",
        "title" : "The Matrix",
        "year" : "1999",
        "Directors" : [
                {
                        "idDirector" : "D001",
                        "Name" : "Andy Wachowski",
                        "DoB" : "22/02/1964",
                        "Address" : "California",
                        "Telephone" : "67868568"
                },
                {
                        "idDirector" : "D002",
                        "Name" : "Lana Wachowski",
                        "DoB" : "12/02/1963",
                        "Address" : "New York",
                        "Telephone" : "62368238"
                }
        ],
        "Writers" : [
                {
                        "idWriter" : "W001",
                        "Name" : "Andy Wachowski",
                        "DoB" : "22/02/1964",
                        "Address" : "California",
                        "Telephone" : "67868568"
                },
                {
                        "idDirector" : "w002",
                        "Name" : "Lana Wachowski",
                        "DoB" : "12/02/1963",
                        "Address" : "New York",
                        "Telephone" : "62368238"
                }
        ],
        "Stars" : [
                {
                        "idStar" : "S001",
                        "Name" : "Keanu Reeves",
                        "DoB" : "22/01/1964",
                        "Address" : "San Francisco",
                        "Telephone" : "67863338",
                        "Total" : " "
                },
                {
                        "idStar" : "S002",
                        "Name" : "Laurence Fishburne",
                        "DoB" : "12/04/1963",
                        "Address" : "Nan Jing",
                        "Telephone" : "62444238",
                        "Total" : " "
                },
                {
                        "idStar" : "S003",
                        "Name" : "Carrie Fisher",
                        "DoB" : "12/05/1964",
                        "Address" : "Tokyo",
                        "Telephone" : "62447738",
                        "Total" : " "
                }
        ]
}
> _
```

Insert movie Back to the future

```
>
>
> db.mdata.insert(
... {
...      "idMovie": "M002",
...      "title": "Back to the Future",
...      "year": "1985",
...      "Directors":
...
...          {
...               "idDirector": "D003",
...               "Name": "Robert  Zemeckis",
...               "DoB": "22/02/1977",
...               "Address": "California",
...               "Telephone": "67868568"
...          }
...
...      ,
...
...      "Writers": [
...
...          {
...               "idWriter": "W003",
...               "Name": "Robert  Zemeckis",
...               "DoB": "22/02/1977",
...               "Address": "California",
...               "Telephone": "33368568"
...          },
...
...          {
...               "idDirector": "w004",
...               "Name": "Bob Gale",
...               "DoB": "12/02/1973",
...               "Address": "New York",
...               "Telephone": "62399938"
...          }
...      ],
...
...      "Stars": [{
...          "idStar": "S004",
...          "Name": "Michael J. Fox",
...          "DoB": "22/01/1999",
...          "Address": "Bei Jing",
...          "Telephone": "67863448",
...          "Total": " "
...      }, {
...          "idStar": "S005",
...          "Name": "Christopher Lloyd",
...          "DoB": "12/04/1988",
...          "Address": "Nan Jing",
...          "Telephone": "62477738",
...          "Total": " "
...      }, {
...          "idStar": "S006",
...          "Name": "Lea Thompson",
...          "DoB": "12/05/1974",
...          "Address": "Tokyo",
...          "Telephone": "62447711",
...          "Total": " "
...      }]
... });
WriteResult({ "nInserted" : 1 })
>
```

Insert movie Avatar

```
... >>;
WriteResult(<< "nInserted" : 1 >>
>
>
>
> db.mdata.insert(
... {
...     "idMovie": "M003",
...     "title": "Avatar",
...     "year": "2009",
...     "Directors": [
...
...         {
...             "idDirector": "D004",
...             "Name": "James Cameron",
...             "DoB": "22/07/1964",
...             "Address": "California",
...             "Telephone": "67998568"
...         }
...
...     ],
...
...     "Writers": [
...
...         {
...             "idWriter": "W005",
...             "Name": "James Cameron",
...             "DoB": "22/07/1964",
...             "Address": "California",
...             "Telephone": "67998568"
...         }
...
...     ],
...
...     "Stars": [{
...         "idStar": "S008",
...         "Name": "Sam Worththington",
...         "DoB": "12/04/1977",
...         "Address": "Bei Jing",
...         "Telephone": "62441118",
...         "Total": " "
...     }, {
...         "idStar": "S002",
...         "Name": "Zoe Saldana",
...         "DoB": "12/04/1963",
...         "Address": "Nan Jing",
...         "Telephone": "62444238",
...         "Total": " "
...     }, {
...         "idStar": "S009",
...         "Name": "Signourney Weaver",
...         "DoB": "12/11/1966",
...         "Address": "Tokyo",
...         "Telephone": "62447218",
...         "Total": " "
...     }]
... });
WriteResult(<< "nInserted" : 1 >>
>
```

Insert movie Pulp Fiction
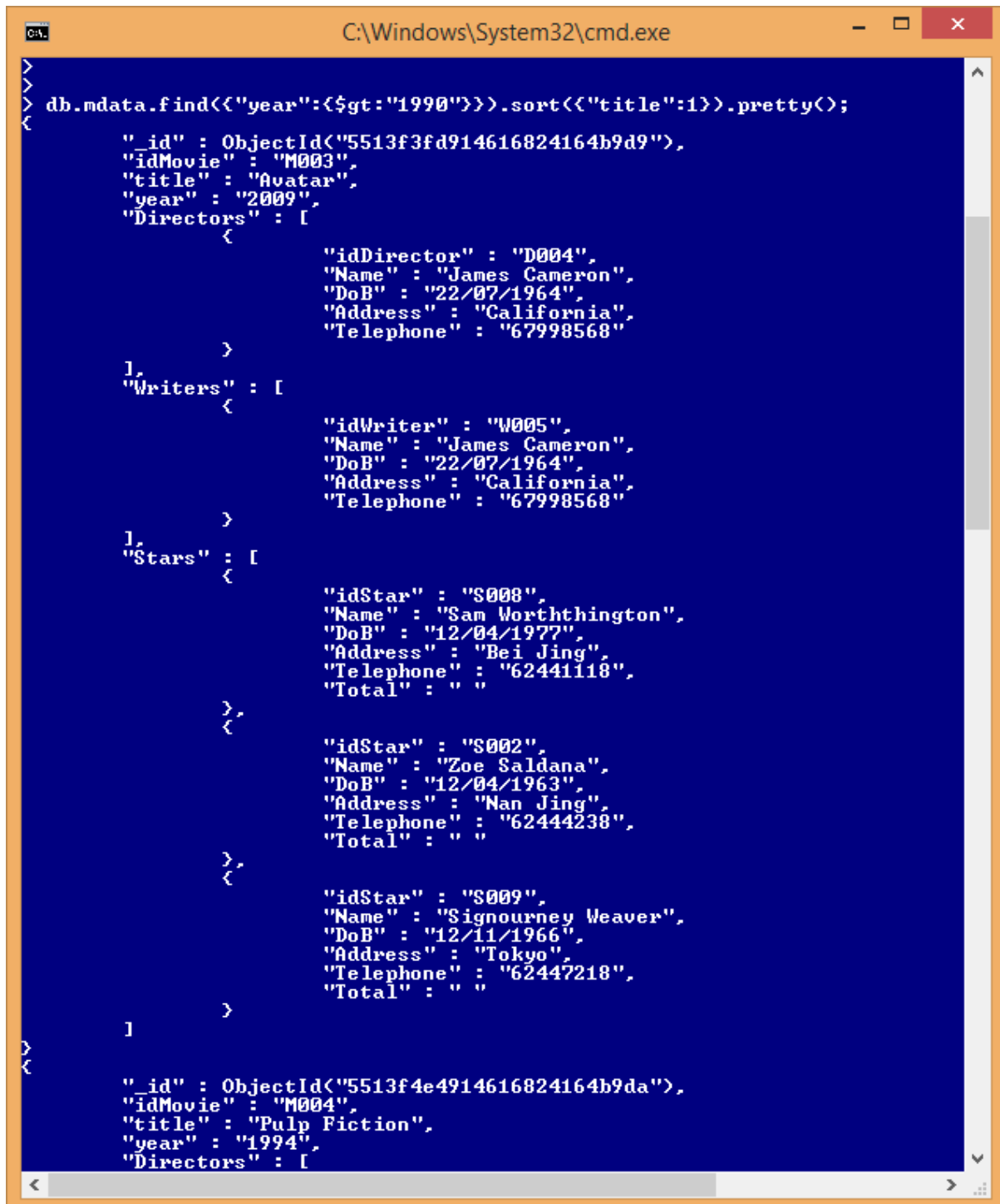
```
>
>
> db.mdata.insert(
... {
...        "idMovie": "M004",
...        "title": "Pulp Fiction",
...        "year": "1994",
...        "Directors": [
...
...            {
...                    "idDirector": "D005",
...                    "Name": "Quentin Tarantino",
...                    "DoB": "11/02/1974",
...                    "Address": "California",
...                    "Telephone": "67328568"
...            }
...        ],
...
...        "Writers": [
...
...            {
...                    "idWriter": "W006",
...                    "Name": "Quentin Tarantino",
...                    "DoB": "11/02/1974",
...                    "Address": "California",
...                    "Telephone": "67328568"
...            },
...
...            {
...                    "idDirector": "w007",
...                    "Name": "Roger Avary",
...                    "DoB": "23/02/1978",
...                    "Address": "New York",
...                    "Telephone": "62765238"
...            }
...        ],
...
...        "Stars": [{
...                "idStar": "S010",
...                "Name": "John Travolta",
...                "DoB": "22/01/1978",
...                "Address": "Bei Jing",
...                "Telephone": "67345338",
...                "Total": " "
...        }, {
...                "idStar": "S011",
...                "Name": "Uma Thurman",
...                "DoB": "12/04/1983",
...                "Address": "Nan Jing",
...                "Telephone": "62441238",
...                "Total": " "
...        }, {
...                "idStar": "S012",
...                "Name": "Samuel L. Jackson",
...                "DoB": "12/05/1977",
...                "Address": "Tokyo",
...                "Telephone": "62412348",
...                "Total": " "
...        }]
... });
WriteResult({ "nInserted" : 1 })
>
```

Insert movie Star Wars

```
>
>
>
> db.mdata.insert(
... {
...         "idMovie": "M005",
...         "title": "Star Wars",
...         "year": "1977",
...         "Directors": [
...             {
...                 "idDirector": "D006",
...                 "Name": "George Lucas",
...                 "DoB": "22/02/1957",
...                 "Address": "California",
...                 "Telephone": "67868123"
...             }
...         ],
...
...         "Writers": [
...             {
...                 "idWriter": "W007",
...                 "Name": "George Lucas",
...                 "DoB": "22/02/1957",
...                 "Address": "California",
...                 "Telephone": "67868123"
...             }
...         ],
...
...         "Stars": [{
...             "idStar": "S013",
...             "Name": "Mark Hamill",
...             "DoB": "12/05/1969",
...             "Address": "Bei Jing",
...             "Telephone": "65444248",
...             "Total": " "
...         }, {
...             "idStar": "S014",
...             "Name": "Harrison Ford",
...             "DoB": "12/05/1974",
...             "Address": "Nan Jing",
...             "Telephone": "62489038",
...             "Total": " "
...         }]
... });
WriteResult({ "nInserted" : 1 })
>
```

(i) List the titles of all Movies where year > 1990 ordered by title

db.mdata.find({"year":{$gt:"1990"}}).sort({"title":1}).pretty();

```
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>
>
> db.mdata.find(<<"year":<$gt:"1990">>>.sort(<<"title":1>>.pretty();
{
        "_id" : ObjectId("5513f3fd914616824164b9d9"),
        "idMovie" : "M003",
        "title" : "Avatar",
        "year" : "2009",
        "Directors" : [
                {
                        "idDirector" : "D004",
                        "Name" : "James Cameron",
                        "DoB" : "22/07/1964",
                        "Address" : "California",
                        "Telephone" : "67998568"
                }
        ],
        "Writers" : [
                {
                        "idWriter" : "W005",
                        "Name" : "James Cameron",
                        "DoB" : "22/07/1964",
                        "Address" : "California",
                        "Telephone" : "67998568"
                }
        ],
        "Stars" : [
                {
                        "idStar" : "S008",
                        "Name" : "Sam Worththington",
                        "DoB" : "12/04/1977",
                        "Address" : "Bei Jing",
                        "Telephone" : "62441118",
                        "Total" : " "
                },
                {
                        "idStar" : "S002",
                        "Name" : "Zoe Saldana",
                        "DoB" : "12/04/1963",
                        "Address" : "Nan Jing",
                        "Telephone" : "62444238",
                        "Total" : " "
                },
                {
                        "idStar" : "S009",
                        "Name" : "Signourney Weaver",
                        "DoB" : "12/11/1966",
                        "Address" : "Tokyo",
                        "Telephone" : "62447218",
                        "Total" : " "
                }
        ]
}
{
        "_id" : ObjectId("5513f4e4914616824164b9da"),
        "idMovie" : "M004",
        "title" : "Pulp Fiction",
        "year" : "1994",
        "Directors" : [
```

```
                "idMovie" : "M004",
                "title" : "Pulp Fiction",
                "year" : "1994",
                "Directors" : [
                        {
                                "idDirector" : "D005",
                                "Name" : "Quentin Tarantino",
                                "DoB" : "11/02/1974",
                                "Address" : "California",
                                "Telephone" : "67328568"
                        }
                ],
                "Writers" : [
                        {
                                "idWriter" : "W006",
                                "Name" : "Quentin Tarantino",
                                "DoB" : "11/02/1974",
                                "Address" : "California",
                                "Telephone" : "67328568"
                        },
                        {
                                "idDirector" : "w007",
                                "Name" : "Roger Avary",
                                "DoB" : "23/02/1978",
                                "Address" : "New York",
                                "Telephone" : "62765238"
                        }
                ],
                "Stars" : [
                        {
                                "idStar" : "S010",
                                "Name" : "John Travolta",
                                "DoB" : "22/01/1978",
                                "Address" : "Bei Jing",
                                "Telephone" : "67345338",
                                "Total" : " "
                        },
                        {
                                "idStar" : "S011",
                                "Name" : "Uma Thurman",
                                "DoB" : "12/04/1983",
                                "Address" : "Nan Jing",
                                "Telephone" : "62441238",
                                "Total" : " "
                        },
                        {
                                "idStar" : "S012",
                                "Name" : "Samuel L. Jackson",
                                "DoB" : "12/05/1977",
                                "Address" : "Tokyo",
                                "Telephone" : "62412348",
                                "Total" : " "
                        }
                ]
}
{
        "_id" : ObjectId("5513f3b3914616824164b9d7"),
        "idMovie" : "M001",
        "title" : "The Matrix",
```

```
>
{
        "_id" : ObjectId("5513f3b3914616824164b9d7"),
        "idMovie" : "M001",
        "title" : "The Matrix",
        "year" : "1999",
        "Directors" : [
                {
                        "idDirector" : "D001",
                        "Name" : "Andy Wachowski",
                        "DoB" : "22/02/1964",
                        "Address" : "California",
                        "Telephone" : "67868568"
                },
                {
                        "idDirector" : "D002",
                        "Name" : "Lana Wachowski",
                        "DoB" : "12/02/1963",
                        "Address" : "New York",
                        "Telephone" : "62368238"
                }
        ],
        "Writers" : [
                {
                        "idWriter" : "W001",
                        "Name" : "Andy Wachowski",
                        "DoB" : "22/02/1964",
                        "Address" : "California",
                        "Telephone" : "67868568"
                },
                {
                        "idDirector" : "w002",
                        "Name" : "Lana Wachowski",
                        "DoB" : "12/02/1963",
                        "Address" : "New York",
                        "Telephone" : "62368238"
                }
        ],
        "Stars" : [
                {
                        "idStar" : "S001",
                        "Name" : "Keanu Reeves",
                        "DoB" : "22/01/1964",
                        "Address" : "San Francisco",
                        "Telephone" : "67863338",
                        "Total" : " "
                },
                {
                        "idStar" : "S002",
                        "Name" : "Laurence Fishburne",
                        "DoB" : "12/04/1963",
                        "Address" : "Nan Jing",
                        "Telephone" : "62444238",
                        "Total" : " "
                },
                {
                        "idStar" : "S003",
                        "Name" : "Carrie Fisher",
                        "DoB" : "12/05/1964",
```

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                                "Telephone" : "67868568"
                },
                {
                                "idDirector" : "D002",
                                "Name" : "Lana Wachowski",
                                "DoB" : "12/02/1963",
                                "Address" : "New York",
                                "Telephone" : "62368238"
                }
        ],
        "Writers" : [
                {
                                "idWriter" : "W001",
                                "Name" : "Andy Wachowski",
                                "DoB" : "22/02/1964",
                                "Address" : "California",
                                "Telephone" : "67868568"
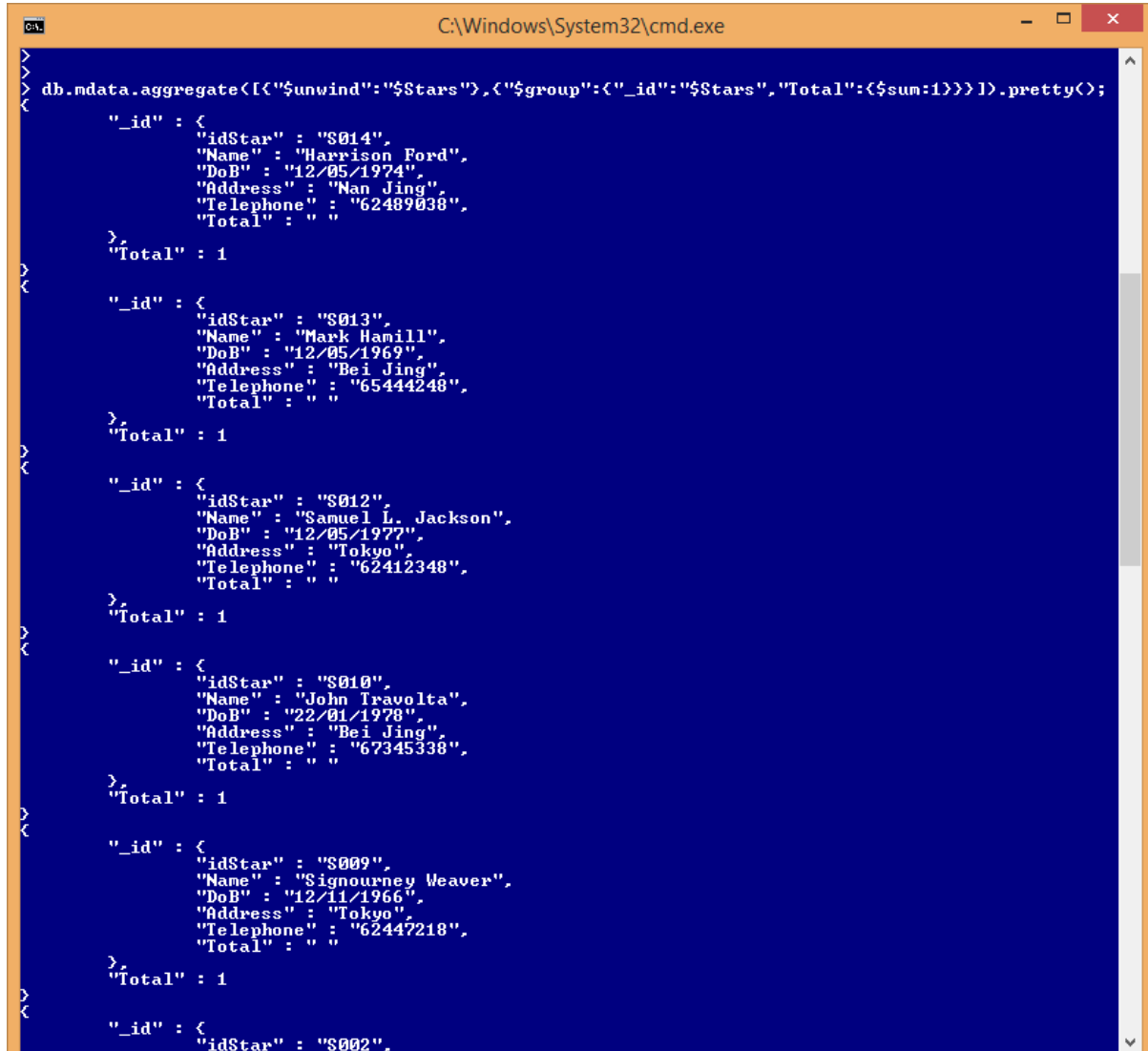   },
                {
                                "idDirector" : "w002",
                                "Name" : "Lana Wachowski",
                                "DoB" : "12/02/1963",
                                "Address" : "New York",
                                "Telephone" : "62368238"
                }
        ],
        "Stars" : [
                {
                                "idStar" : "S001",
                                "Name" : "Keanu Reeves",
                                "DoB" : "22/01/1964",
                                "Address" : "San Francisco",
                                "Telephone" : "67863338",
                                "Total" : " "
                },
                {
                                "idStar" : "S002",
                                "Name" : "Laurence Fishburne",
                                "DoB" : "12/04/1963",
                                "Address" : "Nan Jing",
                                "Telephone" : "62444238",
                                "Total" : " "
                },
                {
                                "idStar" : "S003",
                                "Name" : "Carrie Fisher",
                                "DoB" : "12/05/1964",
                                "Address" : "Tokyo",
                                "Telephone" : "62447738",
                                "Total" : " "
                }
        ]
}
>
>
>
>
>
>

Touch Keyboard

(ii) List the number of movies each star has appeared in.

```
db.mdata.aggregate([{"$unwind":"$Stars"},{"$group":{"_id":"$Stars","Total"
:{$sum:1}}}]).pretty();
```

```
C:\Windows\System32\cmd.exe

>
>
> db.mdata.aggregate([{"$unwind":"$Stars"},{"$group":{"_id":"$Stars","Total":{$sum:1}}}]).pretty();
{
        "_id" : {
                "idStar" : "S014",
                "Name" : "Harrison Ford",
                "DoB" : "12/05/1974",
                "Address" : "Nan Jing",
                "Telephone" : "62489038",
                "Total" : " "
        },
        "Total" : 1
}
{
        "_id" : {
                "idStar" : "S013",
                "Name" : "Mark Hamill",
                "DoB" : "12/05/1969",
                "Address" : "Bei Jing",
                "Telephone" : "65444248",
                "Total" : " "
        },
        "Total" : 1
}
{
        "_id" : {
                "idStar" : "S012",
                "Name" : "Samuel L. Jackson",
                "DoB" : "12/05/1977",
                "Address" : "Tokyo",
                "Telephone" : "62412348",
                "Total" : " "
        },
        "Total" : 1
}
{
        "_id" : {
                "idStar" : "S010",
                "Name" : "John Travolta",
                "DoB" : "22/01/1978",
                "Address" : "Bei Jing",
                "Telephone" : "67345338",
                "Total" : " "
        },
        "Total" : 1
}
{
        "_id" : {
                "idStar" : "S009",
                "Name" : "Signourney Weaver",
                "DoB" : "12/11/1966",
                "Address" : "Tokyo",
                "Telephone" : "62447218",
                "Total" : " "
        },
        "Total" : 1
}
{
        "_id" : {
                "idStar" : "S002",
```

```
                },
                "Total" : 1
}
{
        "_id" : {
                "idStar" : "S006",
                "Name" : "Lea Thompson",
                "DoB" : "12/05/1974",
                "Address" : "Tokyo",
                "Telephone" : "62447711",
                "Total" : " "
        },
        "Total" : 1
}
{
        "_id" : {
                "idStar" : "S005",
                "Name" : "Christopher Lloyd",
                "DoB" : "12/04/1988",
                "Address" : "Nan Jing",
                "Telephone" : "62477738",
                "Total" : " "
        },
        "Total" : 1
}
{
        "_id" : {
                "idStar" : "S011",
                "Name" : "Uma Thurman",
                "DoB" : "12/04/1983",
                "Address" : "Nan Jing",
                "Telephone" : "62441238",
                "Total" : " "
        },
        "Total" : 1
}
{
        "_id" : {
                "idStar" : "S008",
                "Name" : "Sam Worththington",
                "DoB" : "12/04/1977",
                "Address" : "Bei Jing",
                "Telephone" : "62441118",
                "Total" : " "
        },
        "Total" : 1
}
{
        "_id" : {
                "idStar" : "S001",
                "Name" : "Keanu Reeves",
                "DoB" : "22/01/1964",
                "Address" : "San Francisco",
                "Telephone" : "67863338",
                "Total" : " "
        },
        "Total" : 1
}
{
        "_id" : {
                "idStar" : "S003",
```

        },
        "Total" : 1
}
{
        "_id" : {
                "idStar" : "S008",
                "Name" : "Sam Worththington",
                "DoB" : "12/04/1977",
                "Address" : "Bei Jing",
                "Telephone" : "62441118",
                "Total" : " "
        },
        "Total" : 1
}
{
        "_id" : {
                "idStar" : "S001",
                "Name" : "Keanu Reeves",
                "DoB" : "22/01/1964",
                "Address" : "San Francisco",
                "Telephone" : "67863338",
                "Total" : " "
        },
        "Total" : 1
}
{
        "_id" : {
                "idStar" : "S003",
                "Name" : "Carrie Fisher",
                "DoB" : "12/05/1964",
                "Address" : "Tokyo",
                "Telephone" : "62447738",
                "Total" : " "
        },
        "Total" : 1
}
{
        "_id" : {
                "idStar" : "S004",
                "Name" : "Michael J. Fox",
                "DoB" : "22/01/1999",
                "Address" : "Bei Jing",
                "Telephone" : "67863448",
                "Total" : " "
        },
        "Total" : 1
}
{
        "_id" : {
                "idStar" : "S002",
                "Name" : "Laurence Fishburne",
                "DoB" : "12/04/1963",
                "Address" : "Nan Jing",
                "Telephone" : "62444238",
                "Total" : " "
        },
        "Total" : 1
}
>
>
>

XML :

The Matrix :

```xml
<?xml version="1.0" encoding="UTF-8" ?>
<root>
    <idMovie>M001</idMovie>
    <title>The Matrix</title>
    <year>1999</year>
    <Directors>
        <idDirector>D001</idDirector>
        <Name>Andy Wachowski</Name>
        <DoB>22/02/1964</DoB>
        <Address>California</Address>
        <Telephone>67868568</Telephone>
    </Directors>
    <Directors>
        <idDirector>D002</idDirector>
        <Name>Lana Wachowski</Name>
        <DoB>12/02/1963</DoB>
        <Address>New York</Address>
        <Telephone>62368238</Telephone>
    </Directors>
    <Writers>
        <idWriter>W001</idWriter>
        <Name>Andy Wachowski</Name>
        <DoB>22/02/1964</DoB>
        <Address>California</Address>
        <Telephone>67868568</Telephone>
    </Writers>
    <Writers>
        <idDirector>w002</idDirector>
        <Name>Lana Wachowski</Name>
        <DoB>12/02/1963</DoB>
        <Address>New York</Address>
        <Telephone>62368238</Telephone>
    </Writers>
    <Stars>
        <idStar>S001</idStar>
        <Name>Keanu Reeves</Name>
        <DoB>22/01/1964</DoB>
        <Address>San Francisco</Address>
        <Telephone>67863338</Telephone>
        <Total></Total>
    </Stars>
    <Stars>
        <idStar>S002</idStar>
        <Name>Laurence Fishburne</Name>
        <DoB>12/04/1963</DoB>
        <Address>Nan Jing</Address>
```

```xml
    </Stars>
    <Stars>
        <idStar>S002</idStar>
        <Name>Laurence Fishburne</Name>
        <DoB>12/04/1963</DoB>
        <Address>Nan Jing</Address>
        <Telephone>62444238</Telephone>
        <Total></Total>
    </Stars>
    <Stars>
        <idStar>S003</idStar>
        <Name>Carrie Fisher</Name>
        <DoB>12/05/1964</DoB>
        <Address>Tokyo</Address>
        <Telephone>62447738</Telephone>
        <Total></Total>
    </Stars>
</root>
```

eXtensible Markup Language file

eXtensible Markup Language file

```xml
<?xml version="1.0" encoding="UTF-8" ?>
<root>
    <idMovie>M001</idMovie>
    <title>The Matrix</title>
    <year>1999</year>
    <Directors>
        <idDirector>D001</idDirector>
        <Name>Andy Wachowski</Name>
        <DoB>22/02/1964</DoB>
        <Address>California</Address>
        <Telephone>67868568</Telephone>
    </Directors>
    <Directors>
        <idDirector>D002</idDirector>
        <Name>Lana Wachowski</Name>
        <DoB>12/02/1963</DoB>
        <Address>New York</Address>
        <Telephone>62368238</Telephone>
    </Directors>
    <Writers>
        <idWriter>W001</idWriter>
        <Name>Andy Wachowski</Name>
        <DoB>22/02/1964</DoB>
        <Address>California</Address>
        <Telephone>67868568</Telephone>
    </Writers>
    <Writers>
        <idDirector>w002</idDirector>
        <Name>Lana Wachowski</Name>
        <DoB>12/02/1963</DoB>
        <Address>New York</Address>
        <Telephone>62368238</Telephone>
    </Writers>
    <Stars>
        <idStar>S001</idStar>
        <Name>Keanu Reeves</Name>
        <DoB>22/01/1964</DoB>
        <Address>San Francisco</Address>
        <Telephone>67863338</Telephone>
        <Total></Total>
    </Stars>
    <Stars>
        <idStar>S002</idStar>
        <Name>Laurence Fishburne</Name>
        <DoB>12/04/1963</DoB>
        <Address>Nan Jing</Address>
        <Telephone>62444238</Telephone>
        <Total></Total>
    </Stars>
    <Stars>
        <idStar>S003</idStar>
        <Name>Carrie Fisher</Name>
        <DoB>12/05/1964</DoB>
        <Address>Tokyo</Address>
        <Telephone>62447738</Telephone>
        <Total></Total>
    </Stars>
</root>
```

Back to the Future

```xml
<?xml version="1.0" encoding="UTF-8" ?>
<root>
    <idMovie>M002</idMovie>
    <title>Back to the Future</title>
    <year>1985</year>
    <Directors>
        <idDirector>D003</idDirector>
        <Name>Robert Zemeckis</Name>
        <DoB>22/02/1977</DoB>
        <Address>California</Address>
        <Telephone>67868568</Telephone>
    </Directors>
    <Writers>
        <idWriter>W003</idWriter>
        <Name>Robert Zemeckis</Name>
        <DoB>22/02/1977</DoB>
        <Address>California</Address>
        <Telephone>33368568</Telephone>
    </Writers>
    <Writers>
        <idDirector>w004</idDirector>
        <Name>Bob Gale</Name>
        <DoB>12/02/1973</DoB>
        <Address>New York</Address>
        <Telephone>62399938</Telephone>
    </Writers>
    <Stars>
        <idStar>S004</idStar>
        <Name>Michael J. Fox</Name>
        <DoB>22/01/1999</DoB>
        <Address>Bei Jing</Address>
        <Telephone>67863448</Telephone>
        <Total></Total>
    </Stars>
    <Stars>
        <idStar>S005</idStar>
        <Name>Christopher Lloyd</Name>
        <DoB>12/04/1988</DoB>
        <Address>Nan Jing</Address>
        <Telephone>62477738</Telephone>
        <Total></Total>
    </Stars>
    <Stars>
        <idStar>S006</idStar>
        <Name>Lea Thompson</Name>
        <DoB>12/05/1974</DoB>
        <Address>Tokyo</Address>
        <Telephone>62447711</Telephone>
        <Total></Total>
    </Stars>
</root>
```

Avatar

```xml
<?xml version="1.0" encoding="UTF-8" ?>
<root>
    <idMovie>M003</idMovie>
    <title>Avatar</title>
    <year>2009</year>
    <Directors>
        <idDirector>D004</idDirector>
        <Name>James Cameron</Name>
        <DoB>22/07/1964</DoB>
        <Address>California</Address>
        <Telephone>67998568</Telephone>
    </Directors>
    <Writers>
        <idWriter>W005</idWriter>
        <Name>James Cameron</Name>
        <DoB>22/07/1964</DoB>
        <Address>California</Address>
        <Telephone>67998568</Telephone>
    </Writers>
    <Stars>
        <idStar>S008</idStar>
        <Name>Sam Worththington</Name>
        <DoB>12/04/1977</DoB>
        <Address>Bei Jing</Address>
        <Telephone>62441118</Telephone>
        <Total></Total>
    </Stars>
    <Stars>
        <idStar>S002</idStar>
        <Name>Zoe Saldana</Name>
        <DoB>12/04/1963</DoB>
        <Address>Nan Jing</Address>
        <Telephone>62444238</Telephone>
        <Total></Total>
    </Stars>
    <Stars>
        <idStar>S009</idStar>
        <Name>Signourney Weaver</Name>
        <DoB>12/11/1966</DoB>
        <Address>Tokyo</Address>
        <Telephone>62447218</Telephone>
        <Total></Total>
    </Stars>
</root>
```

Pulp Fiction

```xml
<?xml version="1.0" encoding="UTF-8" ?>
<root>
    <idMovie>M004</idMovie>
    <title>Pulp Fiction</title>
    <year>1994</year>
    <Directors>
        <idDirector>D005</idDirector>
        <Name>Quentin Tarantino</Name>
        <DoB>11/02/1974</DoB>
        <Address>California</Address>
        <Telephone>67328568</Telephone>
    </Directors>
    <Writers>
        <idWriter>W006</idWriter>
        <Name>Quentin Tarantino</Name>
        <DoB>11/02/1974</DoB>
        <Address>California</Address>
        <Telephone>67328568</Telephone>
    </Writers>
    <Writers>
        <idDirector>w007</idDirector>
        <Name>Roger Avary</Name>
        <DoB>23/02/1978</DoB>
        <Address>New York</Address>
        <Telephone>62765238</Telephone>
    </Writers>
    <Stars>
        <idStar>S010</idStar>
        <Name>John Travolta</Name>
        <DoB>22/01/1978</DoB>
        <Address>Bei Jing</Address>
        <Telephone>67345338</Telephone>
        <Total></Total>
    </Stars>
    <Stars>
        <idStar>S011</idStar>
        <Name>Uma Thurman</Name>
        <DoB>12/04/1983</DoB>
        <Address>Nan Jing</Address>
        <Telephone>62441238</Telephone>
        <Total></Total>
    </Stars>
    <Stars>
        <idStar>S012</idStar>
        <Name>Samuel L. Jackson</Name>
        <DoB>12/05/1977</DoB>
        <Address>Tokyo</Address>
        <Telephone>62412348</Telephone>
        <Total></Total>
    </Stars>
</root>
```

Star Wars

```xml
<?xml version="1.0" encoding="UTF-8" ?>
<root>
    <idMovie>M005</idMovie>
    <title>Star Wars</title>
    <year>1977</year>
    <Directors>
        <idDirector>D006</idDirector>
        <Name>George Lucas</Name>
        <DoB>22/02/1957</DoB>
        <Address>California</Address>
        <Telephone>67868123</Telephone>
    </Directors>
    <Writers>
        <idWriter>W007</idWriter>
        <Name>George Lucas</Name>
        <DoB>22/02/1957</DoB>
        <Address>California</Address>
        <Telephone>67868123</Telephone>
    </Writers>
    <Stars>
        <idStar>S013</idStar>
        <Name>Mark Hamill</Name>
        <DoB>12/05/1969</DoB>
        <Address>Bei Jing</Address>
        <Telephone>65444248</Telephone>
        <Total></Total>
    </Stars>
    <Stars>
        <idStar>S014</idStar>
        <Name>Harrison Ford</Name>
        <DoB>12/05/1974</DoB>
        <Address>Nan Jing</Address>
        <Telephone>62489038</Telephone>
        <Total></Total>
    </Stars>
</root>
```