1. Create database

> use nodeflix

1. Create collection

> db.createCollection(“nodeflixAccounts”, { size: 1000000 })

1. Populate database

> db.nodeflixAccounts.insertOne(

{

“account\_name”: “johnson”,

“service\_level”: “premium”,

“upgrade\_options”: [

“basic”,

“plus”

],

“total\_sessions”: 4,

“recording\_enabled”: true,

“session”: [

{

“user”: {

“name”: “Michelle”

“sleep\_timer”: 30,

“access\_level”: “adult”,

“parental\_control”: {

“on”: true,

“user”: “Jennifer”

},

“recommendation\_lists”: [

{

“show\_name”: “NCIS”,

“recommendations”: [

{

“show\_name”: “Criminal Minds”,

“category”: [

“Crime”,

“Drama”

]

},

{

“show-name”: “CSI”,

“category”: [

“Crime”,

“Drama”

]

},

{

“show\_name”: “Law and Order”,

“category”: [

“Crime”,

“Drama”

]

}

]

},

{

“show\_name”: “Flash”,

“recommendations”: [

{

“show\_name”: “Arrow”,

“category”: [

“Action-Adventure”,

“Superhero”

]

},

{

“show”: “Supergirl”

“category”: [

“Action-Adventure”,

“Superhero”

]

},

{

“show\_name”: “Black Lightning”,

“category”: [

“Action-Adventure”,

“Superhero”

]

}

]

}

]

}

},

{

“user”: {

“name”: “Jennifer”,

“access\_level”: “child”,

“blocked”: [

{

“show\_name”: “Lucifer”

},

“time\_limit”: {

“start\_hour”: “0900”,

“end\_hour”: “2000”,

“max\_time”: “120”

}

}

}

}

]

})

> db.nodeflixAccounts.insertOne(

{

“show\_name”: “Legends of Tomorrow”,

“category”: [

“Action-Adventure”,

“Superhero”

]

})

1. Queries to extract and present data
2. Query 1 – get number of active sessions for account

> db.nodeflixAccounts.aggregate([

{

numberOfSessions: { $cond: {

if: { “account\_name”: “Johnson”},

then: { $size: “sessions” }

}

}

] )

1. Query 2 – get list of blocked shows

> db.nodeflixAccounts.find(

{ “user”: “Jennifer” }, { “user.blocked.show\_name”: 1 }

)

1. Query 3 – get list of movies starting with the letters CS (customer is searching for CSI)

> db.nodeflixAccounts.find(

{ “show\_name”: { $regex:/^CS/ } }

}

1. Query 4 – find all shows in a certain category

> db.nodeflixAccounts.find(

{ “category”:” Action-Adventure” }, { “show\_name”: 1 }

)

1. Query 5 – get list of upgrade options

> db.nodeflixAccounts.find(

{}, {“upgrade\_options”: 1}

)