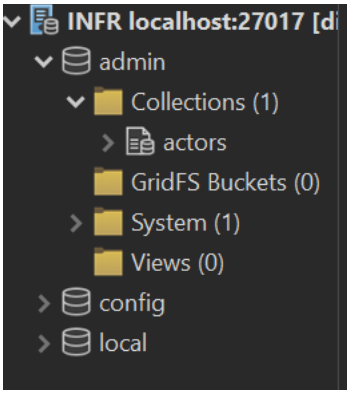
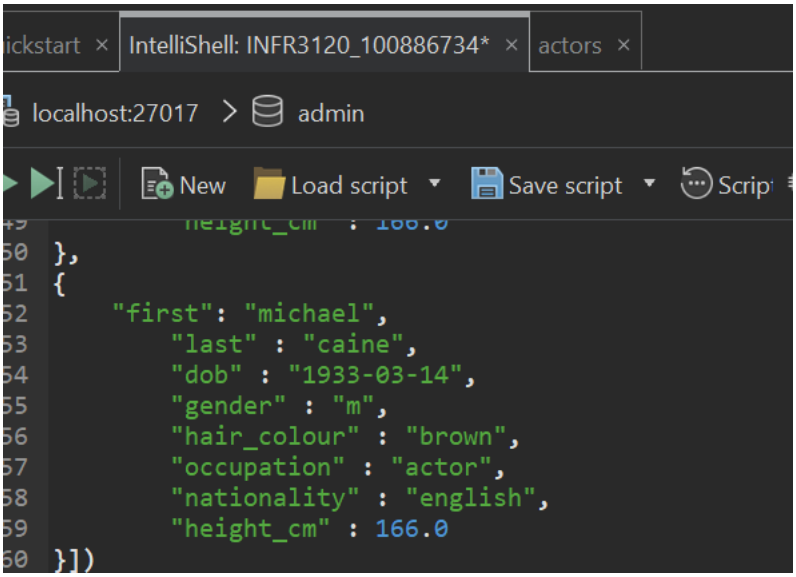
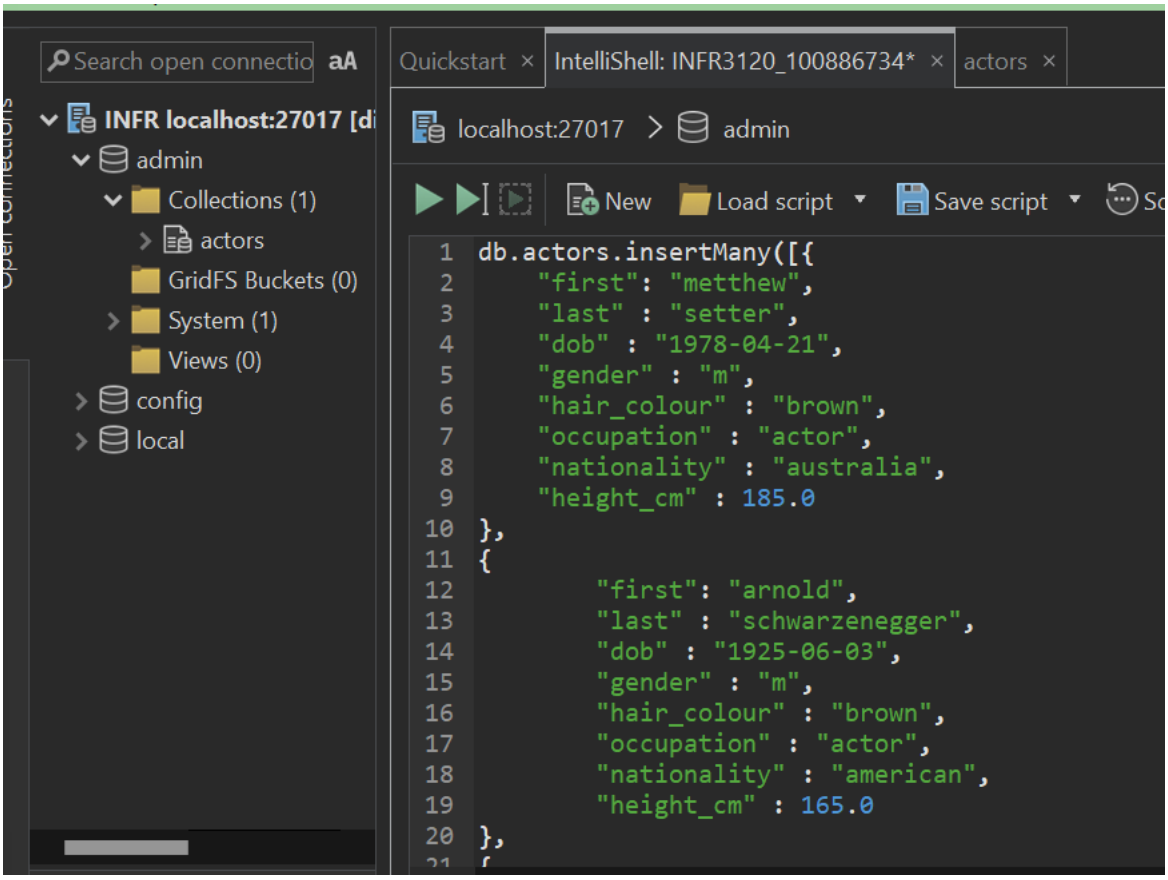
Question 1:



Question 2:



Question 3:



Question 4:

a. Find all female actors.

```
db.actors.find()
```

b. Find all male American actors.

```
db.actors.find({"gender":"f"})
```

c. Find actors that are either male or American actors.

```
db.actor.find({gender:"m", nationality:"american"});
```

d. Find all male actors who are either English or American.

```
db.actor.find({gender:"m", $or:[{nationality:"english"}, {nationality:"american"}]});
```

e. Find and display only the first name and height of actors.

```
db.actor.find({first:1, height_cm:1});
```

f. List the height of all the actors in the order of tallest to shortest.

```
db.actor.find().sort({ height_cm: -1 });
```

g. List all the actors who have a height less than 170 cm.

```
db.actors.find({ height: { $lt: 170 } })
```

h. Find the shortest male and female actors.

```
db.actors.find({ gender: "Male" }).sort({ height: 1 }).limit(1)
db.actors.find({ gender: "Female" }).sort({ height: 1 }).limit(1)
```

i. Find the average height of all the actors.

j.

```
db.actors.aggregate([
    {
        $group: {
            _id: null,
            averageHeight: { $avg: "$height" }
        }
    }
])
```

Question 5:

a.

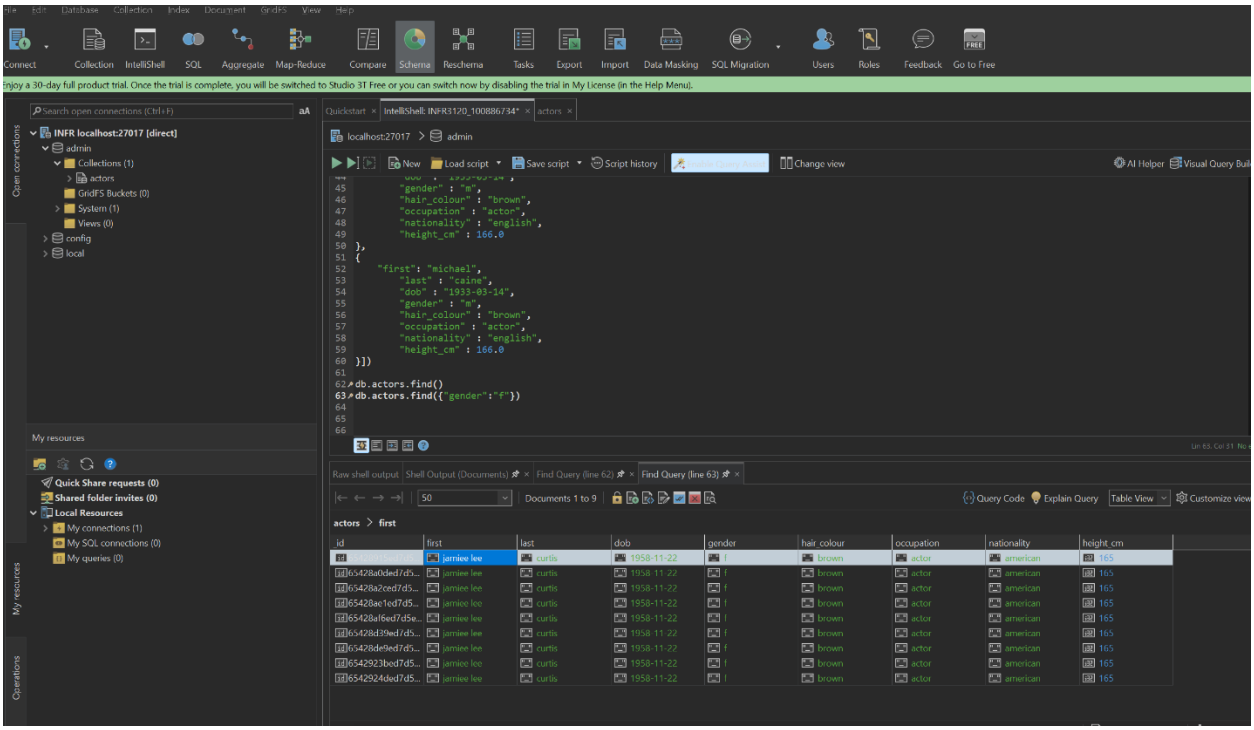
```
db.actor.aggregate([{$group:"$gender", min_height: { $min: "$height_cm" }}]);
db.actors.update({ firstName: "James", lastName: "Caan" }, { $set: { hairColor: "Grey" } })
```

b.

```
db.actors.update({ firstName: "James", lastName: "Caan" }, { $set: { hairColor: "Grey" } })
db.actors.remove({ firstName: "James", lastName: "Caan" })
```

```
db.actors.find({"gender":"f"})

db.actor.find({gender:"m", nationality:"american"});

db.actor.find({gender:"m", $or:[{nationality:"english"}, {nationality:"american"}]});

db.actor.find({first:1, height_cm:1});

db.actor.find().sort({ height_cm: -1 });

db.actor.aggregate([{$group:"$gender", min_height: { $min: "$height_cm" }}]);
```

```
db.actors.update({ firstName: "James", lastName: "Caan" }, { $set: { hairColor:
"Grey" } })

db.actors.remove({ firstName: "James", lastName: "Caan" })

db.actors.find({ height: { $lt: 170 } })

db.actors.find({ gender: "Male" }).sort({ height: 1 }).limit(1)

db.actors.find({ gender: "Female" }).sort({ height: 1 }).limit(1)

db.actors.aggregate([

{

$group: {

_id: null,

averageHeight: { $avg: "$height" }

}

}

])
```


Connect
Collection
IntelliShell
SQL
Aggregate
Map-Reduce
Compare
Schema
Reschema
Tasks
Export
Import
Data Masking
SQL Migration
Users
Roles
Feedback
Go to Free
Enjoy a 30-day full product trial. Once the trial is complete, you will be switched to Studio 3T Free or you can switch now by disabling the trial in My License (in the Help Menu).
INFR localhost:27017 [direct]
admin
Collections (1)
actors
GridFS Buckets (0)
System (1)
Views (0)
config
local
My resources
Quick Share requests (0)
Shared folder invites (0)
Local Resources
My connections (1)
My SQL connections (0)
My queries (0)
db.actors.find()
db.actors.find({"gender":"f"})
actors > first
id
first
last
dob
gender
hair_colour
occupation
nationality
height_cm