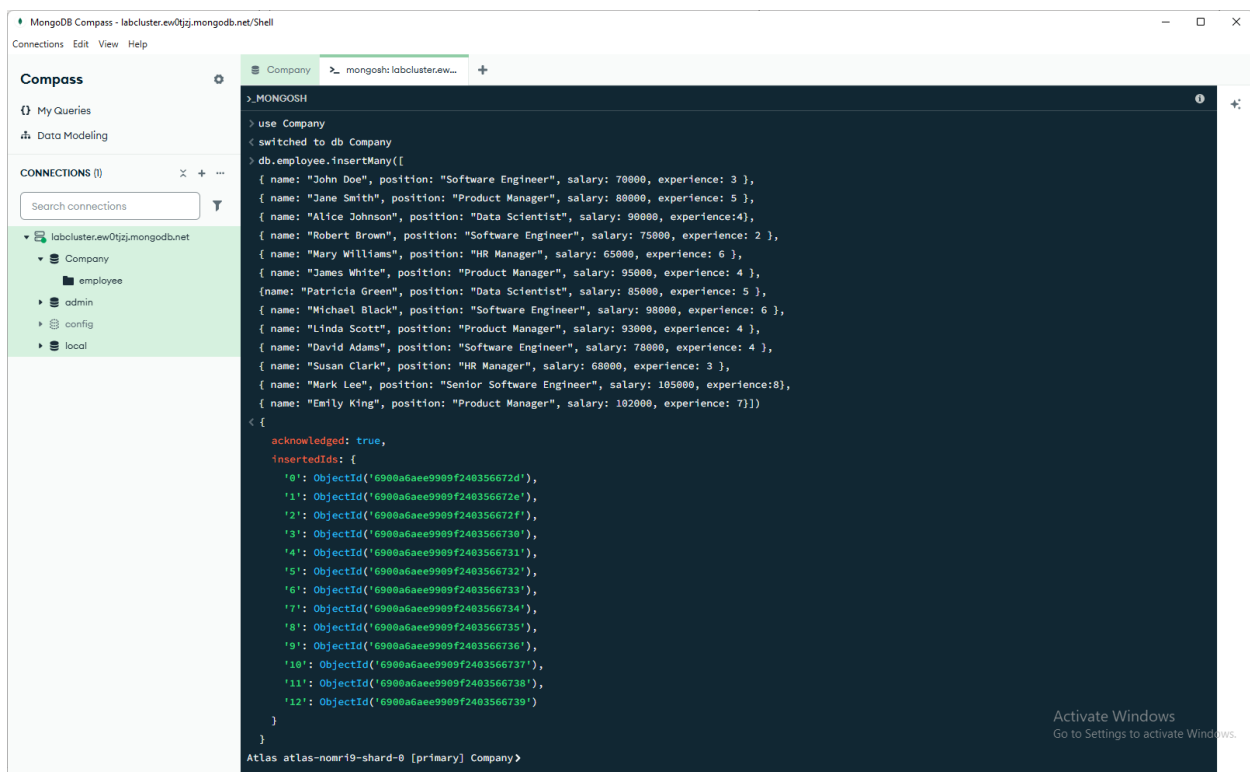


04.

```

db.employee.insertMany([
  { name: "John Doe", position: "Software Engineer", salary: 70000, experience: 3 },
  { name: "Jane Smith", position: "Product Manager", salary: 80000, experience: 5 },
  { name: "Alice Johnson", position: "Data Scientist", salary: 90000, experience: 4 },
  { name: "Robert Brown", position: "Software Engineer", salary: 75000, experience: 2 },
  { name: "Mary Williams", position: "HR Manager", salary: 65000, experience: 6 },
  { name: "James White", position: "Product Manager", salary: 95000, experience: 4 },
  { name: "Patricia Green", position: "Data Scientist", salary: 85000, experience: 5 },
  { name: "Michael Black", position: "Software Engineer", salary: 98000, experience: 6 },
  { name: "Linda Scott", position: "Product Manager", salary: 93000, experience: 4 },
  { name: "David Adams", position: "Software Engineer", salary: 78000, experience: 4 },
  { name: "Susan Clark", position: "HR Manager", salary: 68000, experience: 3 },
  { name: "Mark Lee", position: "Senior Software Engineer", salary: 105000, experience: 8 },
  { name: "Emily King", position: "Product Manager", salary: 102000, experience: 7 }
])

```



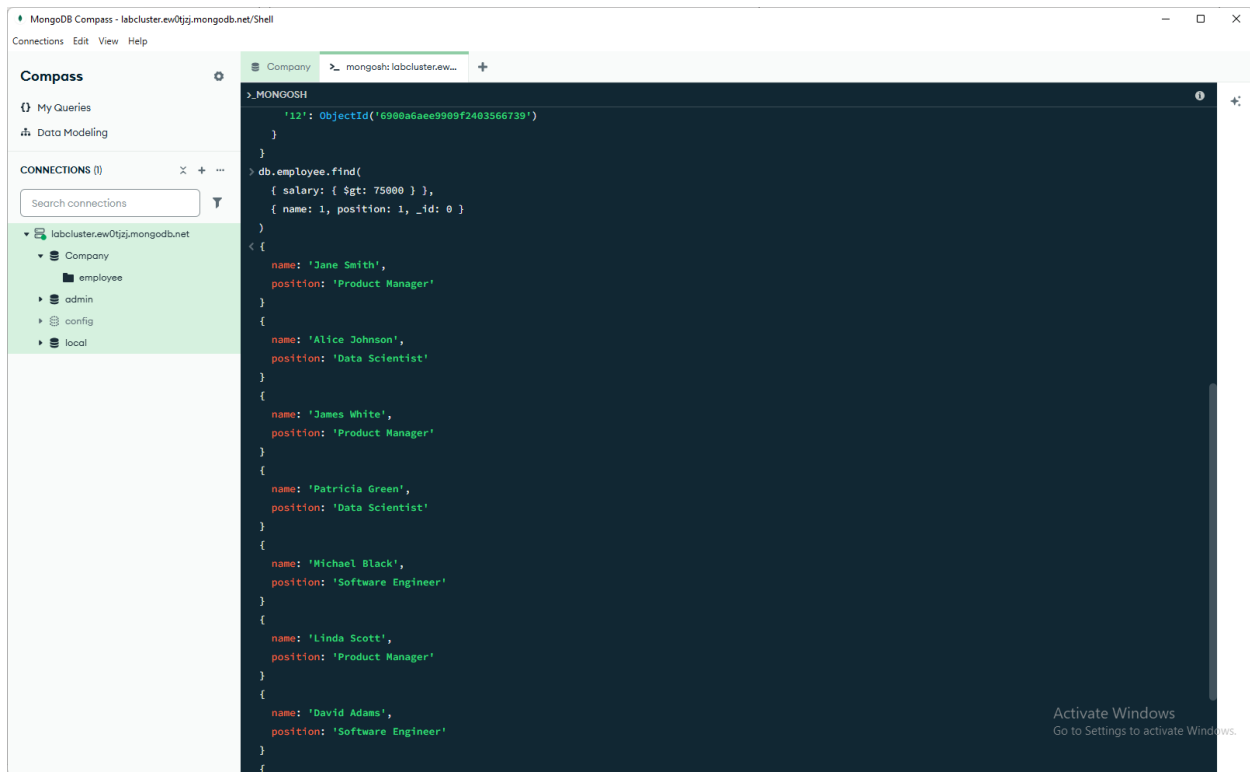
05.

```

db.employee.find(

```

```
{ salary: { $gt: 75000 } },
{ name: 1, position: 1, _id: 0 }
)
```



06.

```
db.employee.updateMany(
  { position: "Software Engineer" },
  { $inc: { salary: 5000 } }
)
```

07.

```
db.employee.deleteMany({ salary: { $lt: 70000 } })
```

The screenshot shows the MongoDB Compass interface. On the left, the 'COMPASS' sidebar displays 'My Queries' and 'Data Modeling'. The 'CONNECTIONS' section shows a search bar and a tree view of the database structure: 'labcluster-ew0tj.mongodb.net' > 'Company' > 'employee'. The main panel shows a shell session with the following commands and results:

```

> MONGOSH
{
  name: 'Michael Black',
  position: 'Software Engineer'
}
{
  name: 'Linda Scott',
  position: 'Product Manager'
}
{
  name: 'David Adams',
  position: 'Software Engineer'
}
{
  name: 'Mark Lee',
  position: 'Senior Software Engineer'
}
{
  name: 'Emily King',
  position: 'Product Manager'
}
}
db.employee.updateMany(
  { position: "Software Engineer" },
  { $inc: { salary: 5000 } }
)
< {
  acknowledged: true,
  insertedId: null,
  matchedCount: 4,
  modifiedCount: 4,
  upsertedCount: 0
}
db.employee.deleteMany({ salary: { $lt: 70000 } })
< {
  acknowledged: true,
  deletedCount: 2
}

```

An 'Activate Windows' watermark is visible in the bottom right corner of the shell panel.

08.

db.employee.find().sort({ salary: -1 })

The screenshot shows the MongoDB Compass interface with the same sidebar as the previous image. The main panel shows a shell session with the following command and result:

```

> MONGOSH
db.employee.find().sort({ salary: -1 })
< {
  _id: ObjectId('6900a6aee9909f2403566738'),
  name: 'Mark Lee',
  position: 'Senior Software Engineer',
  salary: 105000,
  experience: 8
}
{
  _id: ObjectId('6900a6aee9909f2403566734'),
  name: 'Michael Black',
  position: 'Software Engineer',
  salary: 102000,
  experience: 6
}
{
  _id: ObjectId('6900a6aee9909f2403566739'),
  name: 'Emily King',
  position: 'Product Manager',
  salary: 102000,
  experience: 7
}
{
  _id: ObjectId('6900a6aee9909f2403566732'),
  name: 'James White',
  position: 'Product Manager',
  salary: 95000,
  experience: 4
}
{
  _id: ObjectId('6900a6aee9909f2403566735'),
  name: 'Linda Scott',
  position: 'Product Manager',
  salary: 93000,
  experience: 4
}
{
  _id: ObjectId('6900a6aee9909f240356672f'),
  name: 'Alice Johnson',
  position: 'Data Scientist',
  salary: 90000,
  experience: 4
}

```

An 'Activate Windows' watermark is visible in the bottom right corner of the shell panel.

09.

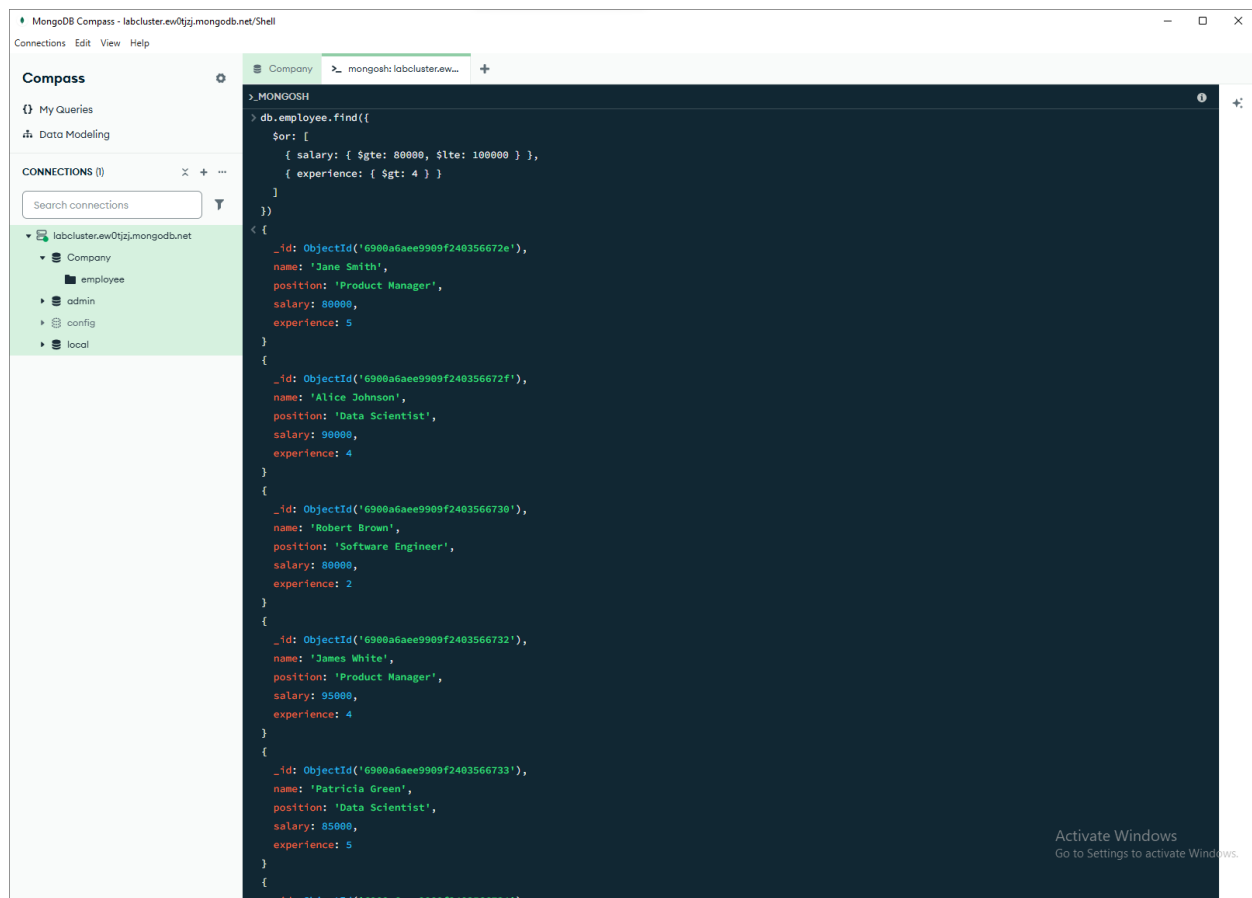
```
db.employee.find(
  { position: "Product Manager", experience: { $gt: 3, $lt: 5 } }
)
```

The screenshot shows the MongoDB Compass interface. On the left, the 'Connections' panel shows a connection to 'labcluster.ew0tjg.mongodb.net'. The 'Database' dropdown is set to 'Company'. The 'Collections' list includes 'employee', 'admin', 'config', and 'local'. The main panel displays a MongoDB shell session with the following commands and results:

```
> MONGOSH
{ $set: { position: "Senior Product Manager" } }
)
< {
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
> db.employee.find({ salary: 80000 })
< {
  _id: ObjectId('6900a6aee9909f240356672e'),
  name: 'Jane Smith',
  position: 'Senior Product Manager',
  salary: 80000,
  experience: 5
}
{
  _id: ObjectId('6900a6aee9909f2403566730'),
  name: 'Robert Brown',
  position: 'Software Engineer',
  salary: 80000,
  experience: 2
}
> db.employee.find(
  { position: "Product Manager", experience: { $gt: 3, $lt: 5 } }
)
< {
  _id: ObjectId('6900a6aee9909f2403566732'),
  name: 'James White',
  position: 'Product Manager',
  salary: 95000,
  experience: 4
}
{
  _id: ObjectId('6900a6aee9909f2403566735'),
  name: 'Linda Scott',
  position: 'Product Manager',
  salary: 93000,
  experience: 4
}
Atlas atlas-nomr19-shard-0 [primary] Company>
```

10.

```
db.employee.find({
  $or: [
    { salary: { $gte: 80000, $lte: 100000 } },
    { experience: { $gt: 4 } }
  ]
})
```



11.

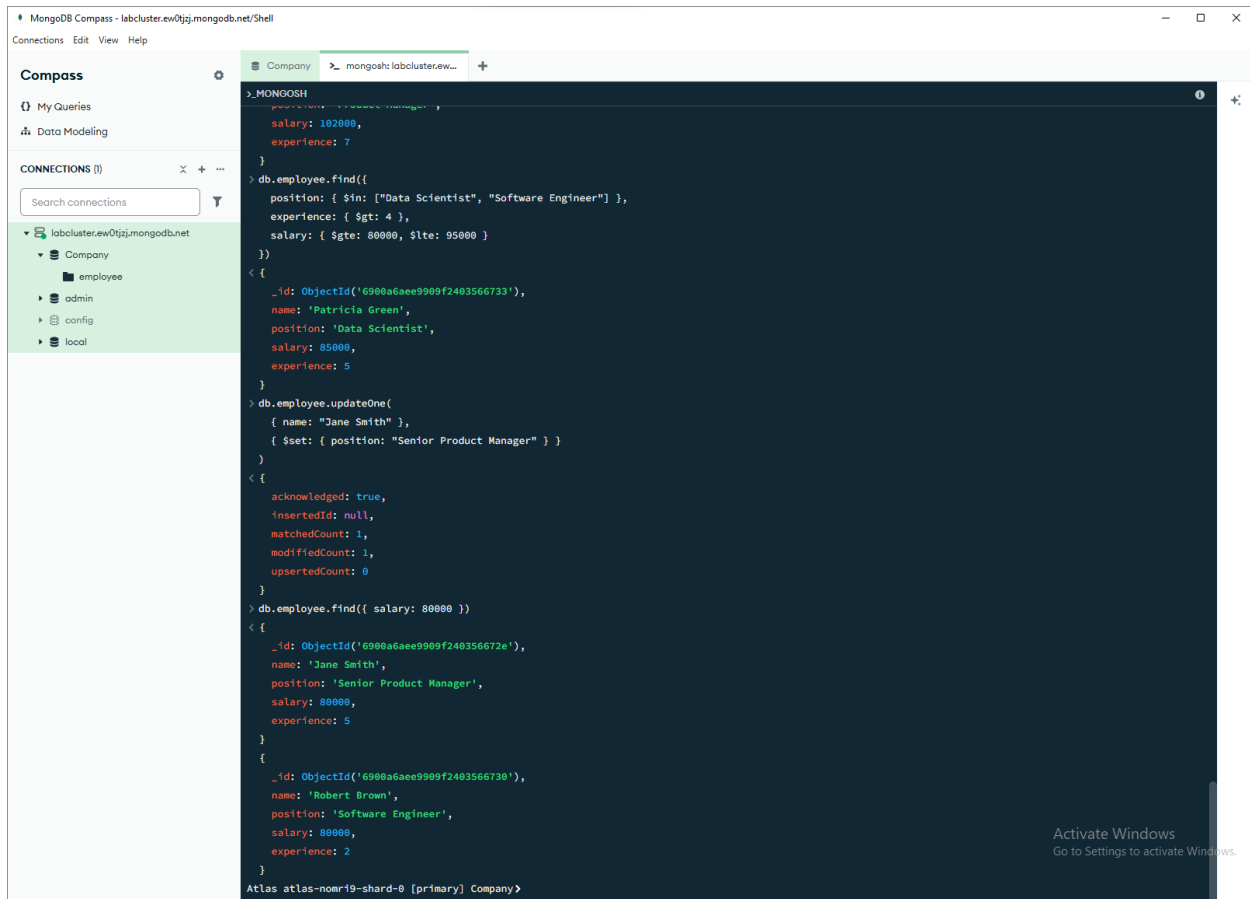
```
db.employee.find({
  position: { $in: ["Data Scientist", "Software Engineer"] },
  experience: { $gt: 4 },
  salary: { $gte: 80000, $lte: 95000 }
})
```

12.

```
db.employee.updateOne(
  { name: "Jane Smith" },
  { $set: { position: "Senior Product Manager" } }
)
```

13.

```
db.employee.find({ salary: 80000 })
```



The screenshot shows the MongoDB Compass application. The left sidebar displays the 'COMPASS' interface with 'My Queries' and 'Data Modeling' tabs. The 'CONNECTIONS' panel shows a connection to 'labcluster.ev0tjj.mongodb.net' with a database named 'Company'. The main panel shows a MongoDB shell session with the following commands and results:

```
> MONOOSH
> use Company
> db.employee.find({
  position: { $in: ["Data Scientist", "Software Engineer"] },
  experience: { $gt: 4 },
  salary: { $gte: 80000, $lte: 95000 }
})
< {
  _id: ObjectId('6900a6aee9909f2403566733'),
  name: 'Patricia Green',
  position: 'Data Scientist',
  salary: 85000,
  experience: 5
}
> db.employee.updateOne(
  { name: "Jane Smith" },
  { $set: { position: "Senior Product Manager" } }
)
< {
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
> db.employee.find({ salary: 80000 })
< {
  _id: ObjectId('6900a6aee9909f240356672e'),
  name: 'Jane Smith',
  position: 'Senior Product Manager',
  salary: 80000,
  experience: 5
}
{
  _id: ObjectId('6900a6aee9909f2403566730'),
  name: 'Robert Brown',
  position: 'Software Engineer',
  salary: 80000,
  experience: 2
}
Atlas atlas-nomr19-shard-0 [primary] Company>
```

An 'Activate Windows' watermark is visible in the bottom right corner of the screenshot.