I have included screenshots and "scripts.js" where I wrote my scripts since they're likely easier to read than having to use this PDF where you see screenshots of radically different sizes. I needed to use this website when dealing with multiple lines of code to put them on one line or the mongo CLI wouldn't work.

https://lingojam.com/TexttoOneLine

1) Insert all the cars using the same attributes that Sue has

```
Atlas atlas-14iyte-shard-0 [primary] test> db.cars.insertMany([ {    Model: 2005,    Make: "Ford Fiesta",    Owner: "Sue Bailey",    Registration: "ABC 12
3 GP",    Address: "13 Main Road, Johannesburg, South Africa", }, {    Model: 2001,    Make: "Very Slow Car",    Owner: "Jim Smith",    Registration: "12
3",    Address: "123 Street, London, England", }, {    Model: 2002,    Make: "Slow Car",    Owner: "Jane Smith",    Registration: "345",    Address: "345
 Street, London, England", }, {    Model: 2003,    Make: "Fast Car",    Owner: "Paul Smith",    Registration: "678",    Address: "678 Street, London, Eng
land", }, {    Model: 2004,    Make: "Sports Car",    Owner: "Dave Sporty Carman",    Registration: "910",    Address: "910 Street, London, England", },
 {    Model: 2005,    Make: "Family Car",    Owner: "Greg McFamily",    Registration: "999",    Address: "999 Street, London, England", },]);
{
  acknowledged: true,
  insertedIds: {
    '0': ObjectId("653f70e9740510cd44a47ff4"),
    '1': ObjectId("653f70e9740510cd44a47ff5"),
    '2': ObjectId("653f70e9740510cd44a47ff6"),
    '3': ObjectId("653f70e9740510cd44a47ff7"),
    '4': ObjectId("653f70e9740510cd44a47ff8"),
    '5': ObjectId("653f70e9740510cd44a47ff9")
  }
}
Atlas atlas-14iyte-shard-0 [primary] test>
```

2) Find all the cars

```
Atlas atlas-14iyte-shard-0 [primary] test> db.cars.find().pretty();
[
  {
    _id: ObjectId("653f70e9740510cd44a47ff4"),
    Model: 2005,
    Make: 'Ford Fiesta',
    Owner: 'Sue Bailey',
    Registration: 'ABC 123 GP',
    Address: '13 Main Road, Johannesburg, South Africa'
  },
  {
    _id: ObjectId("653f70e9740510cd44a47ff5"),
    Model: 2001,
    Make: 'Very Slow Car',
    Owner: 'Jim Smith',
    Registration: '123',
    Address: '123 Street, London, England'
  },
  {
    _id: ObjectId("653f70e9740510cd44a47ff6"),
    Model: 2002,
    Make: 'Slow Car',
    Owner: 'Jane Smith',
    Registration: '345',
    Address: '345 Street, London, England'
  },
  {
    _id: ObjectId("653f70e9740510cd44a47ff7"),
    Model: 2003,
    Make: 'Fast Car',
    Owner: 'Paul Smith',
    Registration: '678',
    Address: '678 Street, London, England'
  },
  {
    _id: ObjectId("653f70e9740510cd44a47ff8"),
    Model: 2004,
    Make: 'Sports Car',
    Owner: 'Dave Sporty Carman',
    Registration: '910',
    Address: '910 Street, London, England'
  },
  {
    _id: ObjectId("653f70e9740510cd44a47ff9"),
    Model: 2005,
    Make: 'Family Car',
    Owner: 'Greg McFamily',
    Registration: '999',
    Address: '999 Street, London, England'
```

3) Update Sue's address and surname

```
Atlas atlas-14iyte-shard-0 [primary] test> db.cars.updateOne(  { Owner: "Sue Bailey" },  { $set: { Address: "21 Maureen Street, Bluewater Bay, Port Elizabe
th, South Africa" } });
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
Atlas atlas-14iyte-shard-0 [primary] test> db.cars.updateOne({ owner: "Sue Bailey" }, { $set: { owner: "Sue Smith" } });
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 0,
  modifiedCount: 0,
  upsertedCount: 0
}
Atlas atlas-14iyte-shard-0 [primary] test> db.cars.updateOne({ Owner: "Sue Bailey" }, { $set: { Owner: "Sue Smith" } });
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
Atlas atlas-14iyte-shard-0 [primary] test> db.cars.find().pretty()
[
  {
    _id: ObjectId("653f70e9740510cd44a47ff4"),
    Model: 2005,
    Make: 'Ford Fiesta',
    Owner: 'Sue Smith',
    Registration: 'ABC 123 GP',
    Address: '21 Maureen Street, Bluewater Bay, Port Elizabeth, South Africa'
  },
  {
```

4) Find cars older than 5 years old (so made before 2018) using "lesser than"

```
Atlas atlas-14iyte-shard-0 [primary] test> db.cars.find( { Model: { $lt: 2018 } } ).pretty()
[
  {
    _id: ObjectId("653f70e9740510cd44a47ff4"),
    Model: 2005,
    Make: 'Ford Fiesta',
    Owner: 'Sue Smith',
    Registration: 'ABC 123 GP',
    Address: '21 Maureen Street, Bluewater Bay, Port Elizabeth, South Africa'
  },
  {
    _id: ObjectId("653f70e9740510cd44a47ff5"),
    Model: 2001,
    Make: 'Very Slow Car',
    Owner: 'Jim Smith',
    Registration: '123',
    Address: '123 Street, London, England'
  },
  {
    _id: ObjectId("653f70e9740510cd44a47ff6"),
    Model: 2002,
    Make: 'Slow Car',
    Owner: 'Jane Smith',
    Registration: '345',
    Address: '345 Street, London, England'
  },
  {
    _id: ObjectId("653f70e9740510cd44a47ff7"),
    Model: 2003,
    Make: 'Fast Car',
    Owner: 'Paul Smith',
    Registration: '678',
    Address: '678 Street, London, England'
  },
  {
    _id: ObjectId("653f70e9740510cd44a47ff8"),
    Model: 2004,
    Make: 'Sports Car',
    Owner: 'Dave Sporty Carman',
    Registration: '910',
    Address: '910 Street, London, England'
  },
  {
    _id: ObjectId("653f70e9740510cd44a47ff9"),
    Model: 2005,
    Make: 'Family Car',
    Owner: 'Greg McFamily',
    Registration: '999',
    Address: '999 Street, London, England'
```

5) Add another Sue with the same surname as the recently married Sue

```
Atlas atlas-14iyte-shard-0 [primary] test> db.cars.insertOne({Model: 2015, Make: "Ford Fiesta", Owner: "Sue Smith",  Registration: "FAKE SUE GP", Address:
"FAKE SUE SMITH Street, Manchester",})
{
  acknowledged: true,
  insertedId: ObjectId("653f791e959bb9d423553ad5")
}
```

6) Delete the original Sue but not the new one by targeting the Object Id (similar to targeting the 100% unique primary key in an SQL database)

```
}
Atlas atlas-14iyte-shard-0 [primary] test> db.cars.deleteOne( { "_id" : ObjectId("653f70e9740510cd44a47ff4") } );
{ acknowledged: true, deletedCount: 1 }
Atlas atlas-14iyte-shard-0 [primary] test> db.cars.find().pretty()
[
  {
    _id: ObjectId("653f70e9740510cd44a47ff5"),
    Model: 2001,
    Make: 'Very Slow Car',
    Owner: 'Jim Smith',
    Registration: '123',
    Address: '123 Street, London, England'
  },
  {
    _id: ObjectId("653f70e9740510cd44a47ff6"),
    Model: 2002,
    Make: 'Slow Car',
    Owner: 'Jane Smith',
    Registration: '345',
    Address: '345 Street, London, England'
  },
  {
    _id: ObjectId("653f70e9740510cd44a47ff7"),
    Model: 2003,
    Make: 'Fast Car',
    Owner: 'Paul Smith',
    Registration: '678',
    Address: '678 Street, London, England'
  },
  {
    _id: ObjectId("653f70e9740510cd44a47ff8"),
    Model: 2004,
    Make: 'Sports Car',
    Owner: 'Dave Sporty Carman',
    Registration: '910',
    Address: '910 Street, London, England'
  },
  {
    _id: ObjectId("653f70e9740510cd44a47ff9"),
    Model: 2005,
    Make: 'Family Car',
    Owner: 'Greg McFamily',
    Registration: '999',
    Address: '999 Street, London, England'
  },
  {
    _id: ObjectId("653f791e959bb9d423553ad5"),
    Model: 2015,
    Make: 'Ford Fiesta',
```

7) Add a list of previous owners to a car

```
Atlas atlas-14iyte-shard-0 [primary] test> db.cars.updateOne(  { "_id" : ObjectId("653f70e9740510cd44a47ff9") },  { $set: { "Previous Owners": ["Jane Smith
", "Paul Smith", "Billy Corgan", "Hulk Hogan", "Vince Russo"] } })
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
```

8) Show the car with its previous owners

```
Atlas atlas-14iyte-shard-0 [primary] test> db.cars.find({_id : ObjectId("653f70e9740510cd44a47ff9")});
[
  {
    _id: ObjectId("653f70e9740510cd44a47ff9"),
    Model: 2005,
    Make: 'Family Car',
    Owner: 'Greg McFamily',
    Registration: '999',
    Address: '999 Street, London, England',
    'Previous Owners': [
      'Jane Smith',
      'Paul Smith',
      'Billy Corgan',
      'Hulk Hogan',
      'Vince Russo'
    ]
  }
]
Atlas atlas-14iyte-shard-0 [primary] test>
```