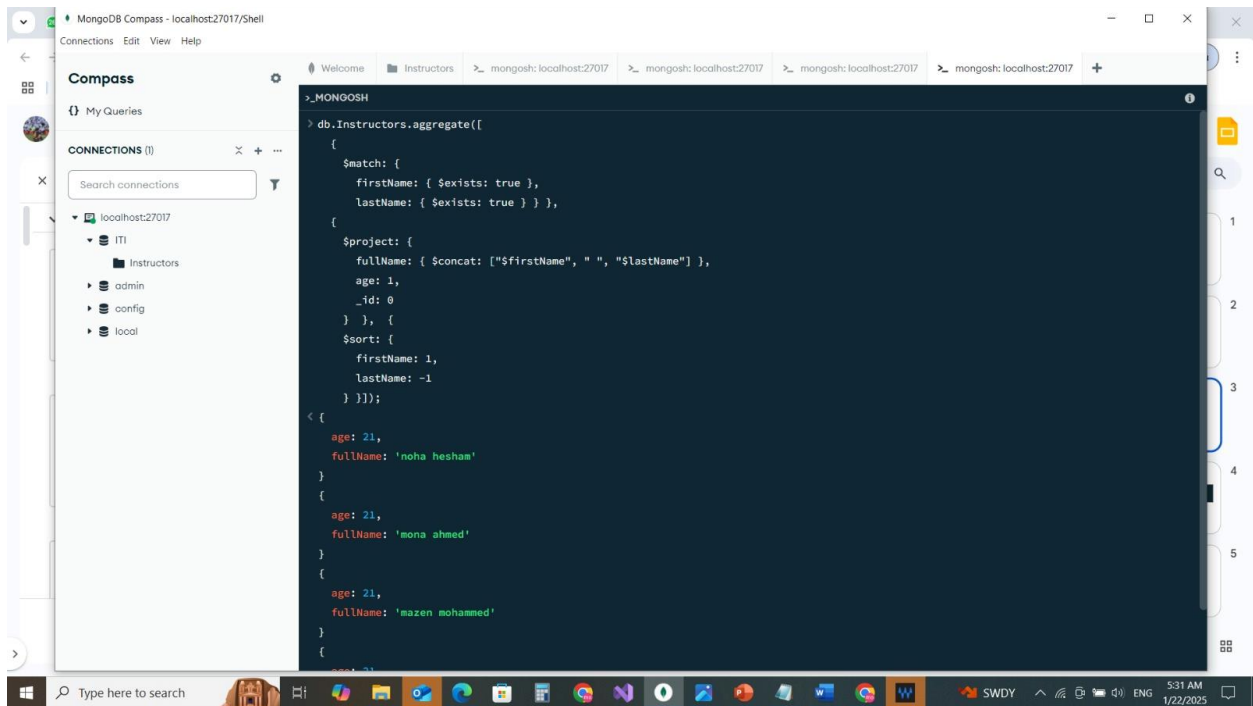
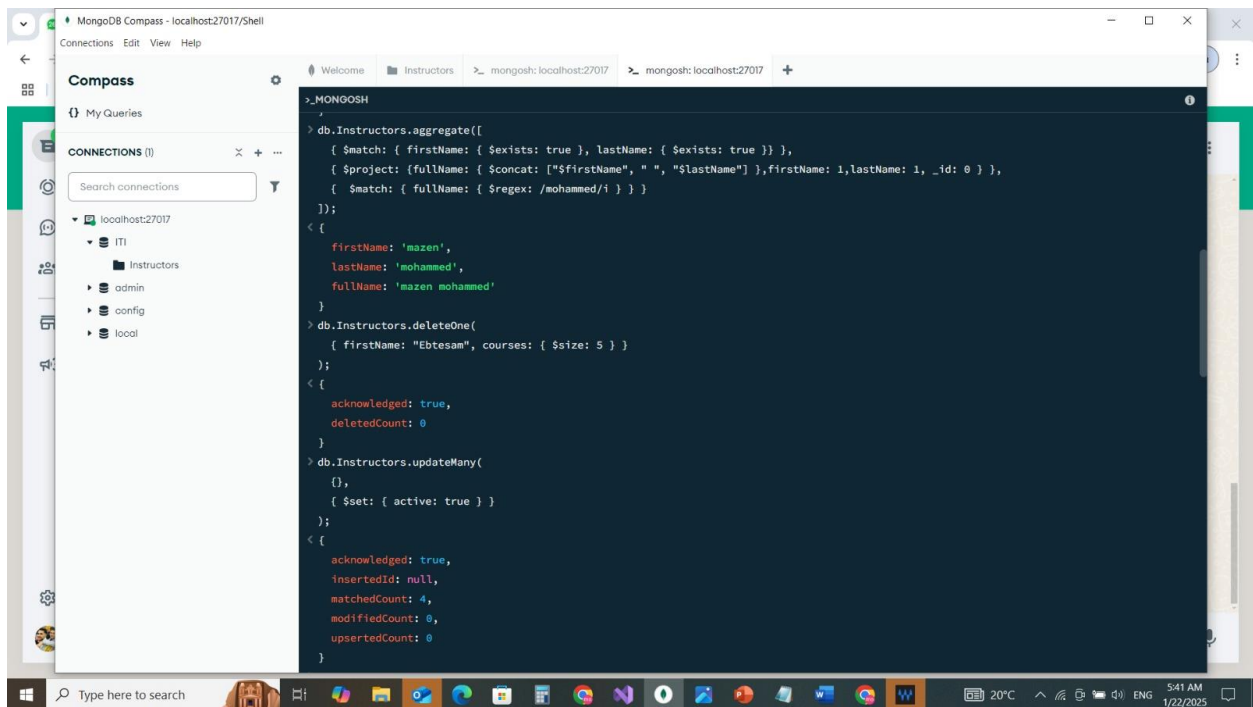


Q-G



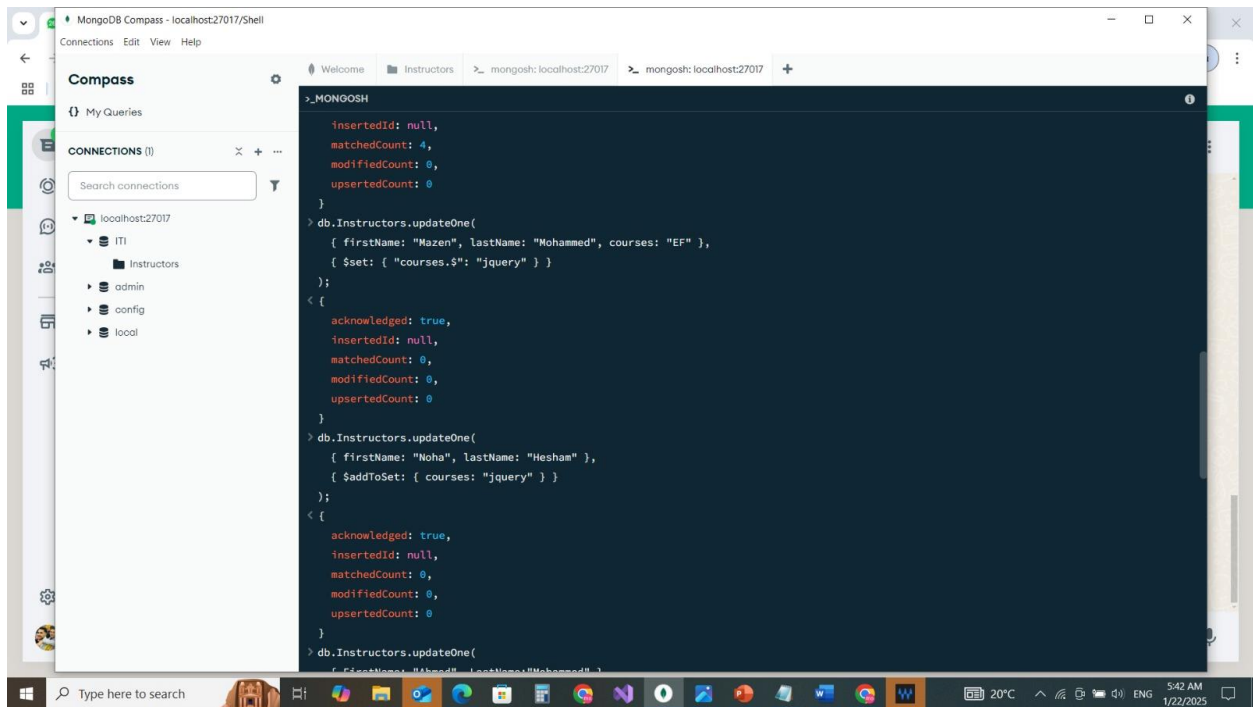
```
>_MONGOSH
> db.Instructors.aggregate([
  {
    $match: {
      firstName: { $exists: true },
      lastName: { $exists: true } },
    {
      $project: {
        fullName: { $concat: ["$firstName", " ", "$lastName"] },
        age: 1,
        _id: 0
      }, {
        $sort: {
          firstName: 1,
          lastName: -1
        }
      }
    ]
  }
])
< [
  {
    age: 21,
    fullName: 'noha hesham'
  },
  {
    age: 21,
    fullName: 'mona ahmed'
  },
  {
    age: 21,
    fullName: 'mazen mohammed'
  }
]
```

Q-H,I,J

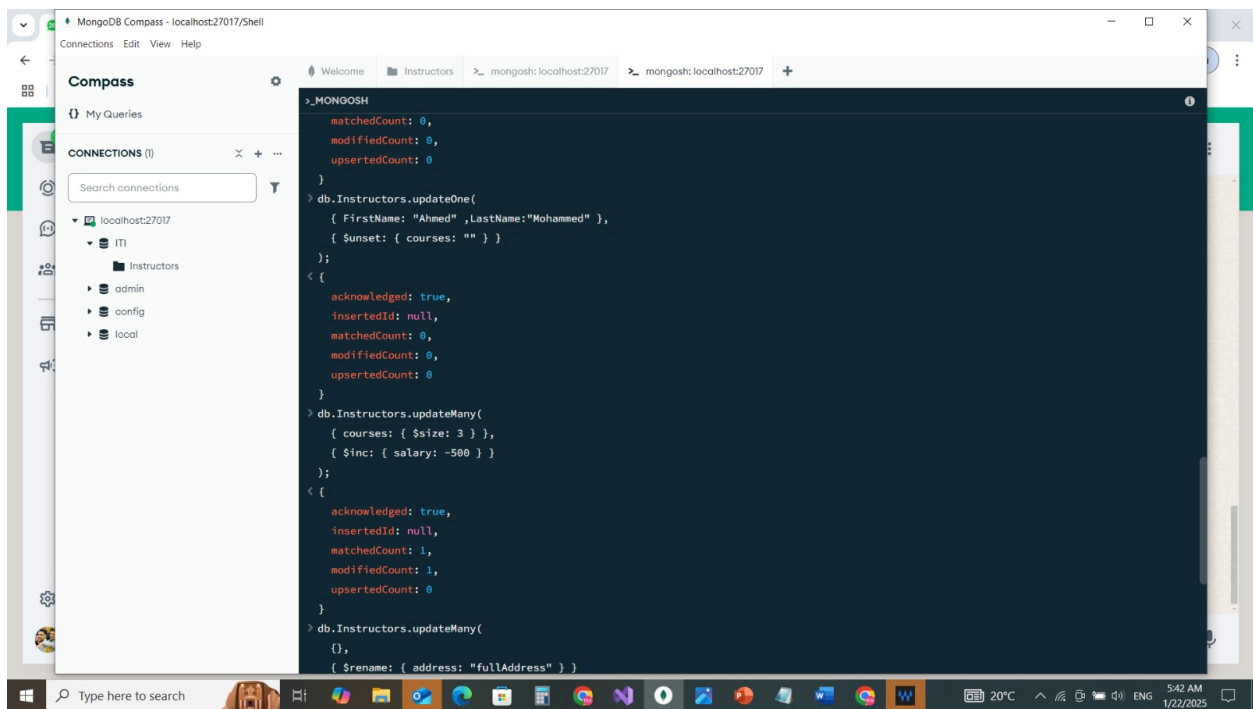


```
>_MONGOSH
> db.Instructors.aggregate([
  { $match: { firstName: { $exists: true }, lastName: { $exists: true } } },
  { $project: { fullName: { $concat: ["$firstName", " ", "$lastName"] }, firstName: 1, lastName: 1, _id: 0 } },
  { $match: { fullName: { $regex: /mohammed/i } } }
]);
< [
  {
    firstName: 'mazen',
    lastName: 'mohammed',
    fullName: 'mazen mohammed'
  }
]
> db.Instructors.deleteOne(
  { firstName: "Ebtesam", courses: { $size: 5 } }
);
< [
  {
    acknowledged: true,
    deletedCount: 0
  }
]
> db.Instructors.updateMany(
  {},
  { $set: { active: true } }
);
< [
  {
    acknowledged: true,
    insertedId: null,
    matchedCount: 4,
    modifiedCount: 0,
    upsertedCount: 0
  }
]
```

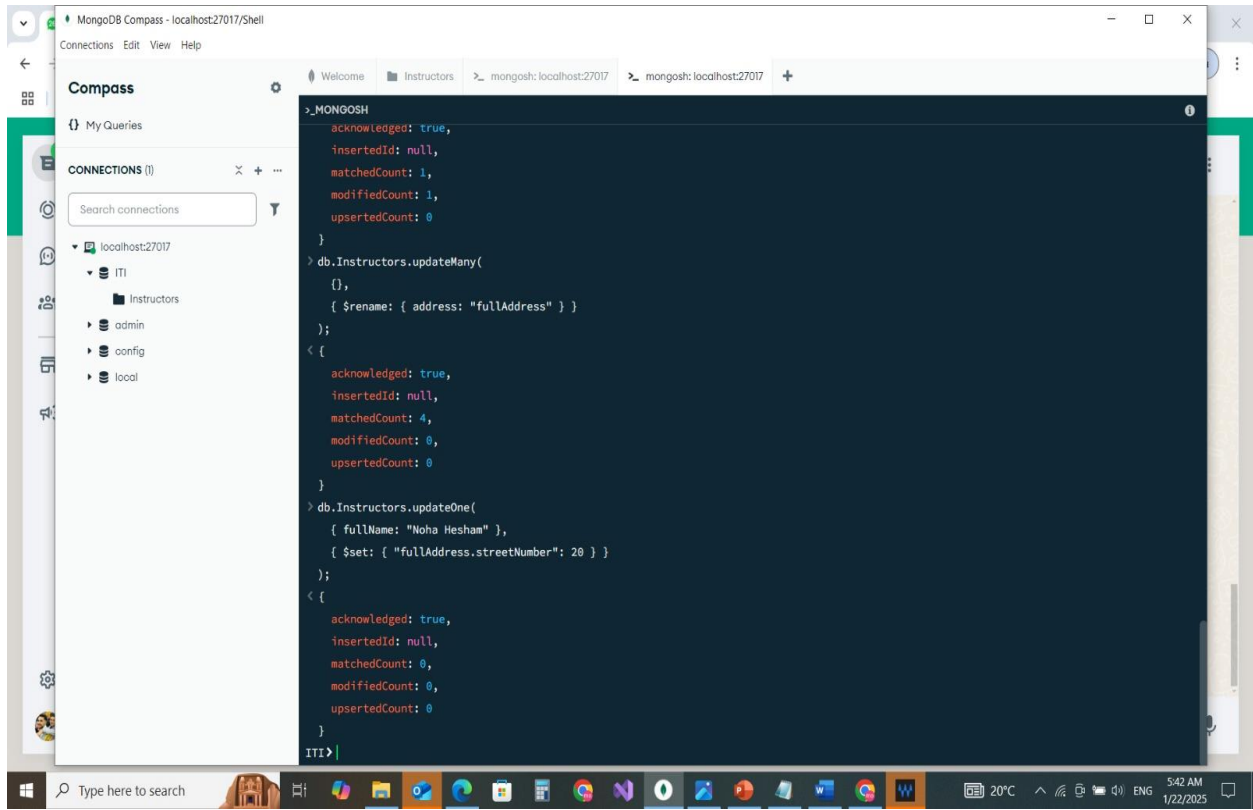
Q-K,L



Q- M, N



Q-O, P



The screenshot shows the MongoDB Compass application window. The left sidebar displays the 'Connections' panel with a search bar and a list of connections. The main panel shows a shell session with the following commands and results:

```
>_MONGOSH
acknowledged: true,
insertedId: null,
matchedCount: 1,
modifiedCount: 1,
upsertedCount: 0
}
> db.Instructors.updateMany(
  {},
  { $rename: { address: "fullAddress" } }
);
< {
  acknowledged: true,
  insertedId: null,
  matchedCount: 4,
  modifiedCount: 0,
  upsertedCount: 0
}
> db.Instructors.updateOne(
  { fullName: "Noha Hesham" },
  { $set: { "fullAddress.streetNumber": 20 } }
);
< {
  acknowledged: true,
  insertedId: null,
  matchedCount: 0,
  modifiedCount: 0,
  upsertedCount: 0
}
ITI>
```

التحديث او الإضافة او التعديل مرات بيكون ب 0 لاني يكون نفذت الامراكثر من مرة فلما بنفذه ثاني بيحدث جديد لانه بيكون اتحدث فعلا او اتحذف فعلا