Skill-5

ID: 2000030384

Name: Jatla Nikhil Sai Lalith

Section No: S09

1.

2.

a)


```
              ObjectId("615eb9f93b38ece8237a37ff"),
              ObjectId("615eb9f93b38ece8237a3800")
       ]
}
> db.StuData.find()
{ "_id" : ObjectId("615eb9f93b38ece8237a37f3"), "studentid" : 1594, "name" : "Zudumba", "dept" : "CSE", "address" : "VZA" }
{ "_id" : ObjectId("615eb9f93b38ece8237a37f4"), "studentid" : 1607, "name" : "Hidamba", "dept" : "CSE", "address" : "GUN" }
{ "_id" : ObjectId("615eb9f93b38ece8237a37f5"), "studentid" : 1642, "name" : "Jyoto", "dept" : "CSE", "address" : "VZA" }
{ "_id" : ObjectId("615eb9f93b38ece8237a37f6"), "studentid" : 1542, "name" : "Chapa", "dept" : "CSE", "address" : "GUN" }
{ "_id" : ObjectId("615eb9f93b38ece8237a37f7"), "studentid" : 1668, "name" : "Pronto", "dept" : "BP", "address" : "GUN" }
{ "_id" : ObjectId("615eb9f93b38ece8237a37f8"), "studentid" : 1587, "name" : "Geets", "dept" : "ECE", "address" : "TEN" }
{ "_id" : ObjectId("615eb9f93b38ece8237a37f9"), "studentid" : 1654, "name" : "Anjani", "dept" : "BP", "address" : "VZA" }
{ "_id" : ObjectId("615eb9f93b38ece8237a37fa"), "studentid" : 1540, "name" : "Miniyo", "dept" : "CIVIL", "address" : "GUN" }
{ "_id" : ObjectId("615eb9f93b38ece8237a37fb"), "studentid" : 1610, "name" : "Bharg", "dept" : "ME", "address" : "TEN" }
{ "_id" : ObjectId("615eb9f93b38ece8237a37fc"), "studentid" : 1595, "name" : "Varen", "dept" : "ME", "address" : "GUN" }
{ "_id" : ObjectId("615eb9f93b38ece8237a37fd"), "studentid" : 1677, "name" : "Soven", "dept" : "ME", "address" : "VZA" }
{ "_id" : ObjectId("615eb9f93b38ece8237a37fe"), "studentid" : 1603, "name" : "Varshita", "dept" : "ECE", "address" : "VZA" }
{ "_id" : ObjectId("615eb9f93b38ece8237a37ff"), "studentid" : 1592, "name" : "Chuck", "dept" : "BT", "address" : "VZA" }
{ "_id" : ObjectId("615eb9f93b38ece8237a3800"), "studentid" : 1500, "name" : "Rischard", "dept" : "PE", "address" : "VZA" }
> db.StuData.find().limit(1)
{ "_id" : ObjectId("615eb9f93b38ece8237a37f3"), "studentid" : 1594, "name" : "Zudumba", "dept" : "CSE", "address" : "VZA" }
>
```

b)


```
> db.StuData.find().limit(1)
{ "_id" : ObjectId("615eb9f93b38ece8237a37f3"), "studentid" : 1594, "name" : "Zudumba", "dept" : "CSE", "address" : "VZA" }
> db.StuData.find()
{ "_id" : ObjectId("615eb9f93b38ece8237a37f3"), "studentid" : 1594, "name" : "Zudumba", "dept" : "CSE", "address" : "VZA" }
{ "_id" : ObjectId("615eb9f93b38ece8237a37f4"), "studentid" : 1607, "name" : "Hidamba", "dept" : "CSE", "address" : "GUN" }
{ "_id" : ObjectId("615eb9f93b38ece8237a37f5"), "studentid" : 1642, "name" : "Jyoto", "dept" : "CSE", "address" : "VZA" }
{ "_id" : ObjectId("615eb9f93b38ece8237a37f6"), "studentid" : 1542, "name" : "Chapa", "dept" : "CSE", "address" : "GUN" }
{ "_id" : ObjectId("615eb9f93b38ece8237a37f7"), "studentid" : 1668, "name" : "Pronto", "dept" : "BP", "address" : "GUN" }
{ "_id" : ObjectId("615eb9f93b38ece8237a37f8"), "studentid" : 1587, "name" : "Geets", "dept" : "ECE", "address" : "TEN" }
{ "_id" : ObjectId("615eb9f93b38ece8237a37f9"), "studentid" : 1654, "name" : "Anjani", "dept" : "BP", "address" : "VZA" }
{ "_id" : ObjectId("615eb9f93b38ece8237a37fa"), "studentid" : 1540, "name" : "Miniyo", "dept" : "CIVIL", "address" : "GUN" }
{ "_id" : ObjectId("615eb9f93b38ece8237a37fb"), "studentid" : 1610, "name" : "Bharg", "dept" : "ME", "address" : "TEN" }
{ "_id" : ObjectId("615eb9f93b38ece8237a37fc"), "studentid" : 1595, "name" : "Varen", "dept" : "ME", "address" : "GUN" }
{ "_id" : ObjectId("615eb9f93b38ece8237a37fd"), "studentid" : 1677, "name" : "Soven", "dept" : "ME", "address" : "VZA" }
{ "_id" : ObjectId("615eb9f93b38ece8237a37fe"), "studentid" : 1603, "name" : "Varshita", "dept" : "ECE", "address" : "VZA" }
{ "_id" : ObjectId("615eb9f93b38ece8237a37ff"), "studentid" : 1592, "name" : "Chuck", "dept" : "BT", "address" : "VZA" }
{ "_id" : ObjectId("615eb9f93b38ece8237a3800"), "studentid" : 1500, "name" : "Rischard", "dept" : "PE", "address" : "VZA" }
>
```

c)

```
Administrator: Command Prompt - mongo
> db.StuData.find({},{_id:false,studentid:true,dept:true})
{ "studentid" : 1594, "dept" : "CSE" }
{ "studentid" : 1607, "dept" : "CSE" }
{ "studentid" : 1642, "dept" : "CSE" }
{ "studentid" : 1542, "dept" : "CSE" }
{ "studentid" : 1668, "dept" : "BP" }
{ "studentid" : 1587, "dept" : "ECE" }
{ "studentid" : 1654, "dept" : "BP" }
{ "studentid" : 1540, "dept" : "CIVIL" }
{ "studentid" : 1610, "dept" : "ME" }
{ "studentid" : 1595, "dept" : "ME" }
{ "studentid" : 1677, "dept" : "ME" }
{ "studentid" : 1603, "dept" : "ECE" }
{ "studentid" : 1592, "dept" : "BT" }
{ "studentid" : 1500, "dept" : "PE" }
>
```

d)

```
Administrator: Command Prompt - mongo
> db.StuData.find({},{dept:false})
{ "_id" : ObjectId("615eb9f93b38ece8237a37f3"), "studentid" : 1594, "name" : "Zudumba", "address" : "VZA" }
{ "_id" : ObjectId("615eb9f93b38ece8237a37f4"), "studentid" : 1607, "name" : "Hidamba", "address" : "GUN" }
{ "_id" : ObjectId("615eb9f93b38ece8237a37f5"), "studentid" : 1642, "name" : "Jyoto", "address" : "VZA" }
{ "_id" : ObjectId("615eb9f93b38ece8237a37f6"), "studentid" : 1542, "name" : "Chapa", "address" : "GUN" }
{ "_id" : ObjectId("615eb9f93b38ece8237a37f7"), "studentid" : 1668, "name" : "Pronto", "address" : "GUN" }
{ "_id" : ObjectId("615eb9f93b38ece8237a37f8"), "studentid" : 1587, "name" : "Geets", "address" : "TEN" }
{ "_id" : ObjectId("615eb9f93b38ece8237a37f9"), "studentid" : 1654, "name" : "Anjani", "address" : "VZA" }
{ "_id" : ObjectId("615eb9f93b38ece8237a37fa"), "studentid" : 1540, "name" : "Miniyo", "address" : "GUN" }
{ "_id" : ObjectId("615eb9f93b38ece8237a37fb"), "studentid" : 1610, "name" : "Bharg", "address" : "TEN" }
{ "_id" : ObjectId("615eb9f93b38ece8237a37fc"), "studentid" : 1595, "name" : "Varen", "address" : "GUN" }
{ "_id" : ObjectId("615eb9f93b38ece8237a37fd"), "studentid" : 1677, "name" : "Soven", "address" : "VZA" }
{ "_id" : ObjectId("615eb9f93b38ece8237a37fe"), "studentid" : 1603, "name" : "Varshita", "address" : "VZA" }
{ "_id" : ObjectId("615eb9f93b38ece8237a37ff"), "studentid" : 1592, "name" : "Chuck", "address" : "VZA" }
{ "_id" : ObjectId("615eb9f93b38ece8237a3800"), "studentid" : 1500, "name" : "Rischard", "address" : "VZA" }
>
```

3.

```
Administrator: Command Prompt - mongo
> db.StuData.find({dept:{$ne:['BT','PE']}})
{ "_id" : ObjectId("615eb9f93b38ece8237a37f3"), "studentid" : 1594, "name" : "Zudumba", "dept" : "CSE", "address" : "VZA" }
{ "_id" : ObjectId("615eb9f93b38ece8237a37f4"), "studentid" : 1607, "name" : "Hidamba", "dept" : "CSE", "address" : "GUN" }
{ "_id" : ObjectId("615eb9f93b38ece8237a37f5"), "studentid" : 1642, "name" : "Jyoto", "dept" : "CSE", "address" : "VZA" }
{ "_id" : ObjectId("615eb9f93b38ece8237a37f6"), "studentid" : 1542, "name" : "Chapa", "dept" : "CSE", "address" : "GUN" }
{ "_id" : ObjectId("615eb9f93b38ece8237a37f7"), "studentid" : 1668, "name" : "Pronto", "dept" : "BP", "address" : "GUN" }
{ "_id" : ObjectId("615eb9f93b38ece8237a37f8"), "studentid" : 1587, "name" : "Geets", "dept" : "ECE", "address" : "TEN" }
{ "_id" : ObjectId("615eb9f93b38ece8237a37f9"), "studentid" : 1654, "name" : "Anjani", "dept" : "BP", "address" : "VZA" }
{ "_id" : ObjectId("615eb9f93b38ece8237a37fa"), "studentid" : 1540, "name" : "Miniyo", "dept" : "CIVIL", "address" : "GUN" }
{ "_id" : ObjectId("615eb9f93b38ece8237a37fb"), "studentid" : 1610, "name" : "Bharg", "dept" : "ME", "address" : "TEN" }
{ "_id" : ObjectId("615eb9f93b38ece8237a37fc"), "studentid" : 1595, "name" : "Varen", "dept" : "ME", "address" : "GUN" }
{ "_id" : ObjectId("615eb9f93b38ece8237a37fd"), "studentid" : 1677, "name" : "Soven", "dept" : "ME", "address" : "VZA" }
{ "_id" : ObjectId("615eb9f93b38ece8237a37fe"), "studentid" : 1603, "name" : "Varshita", "dept" : "ECE", "address" : "VZA" }
{ "_id" : ObjectId("615eb9f93b38ece8237a37ff"), "studentid" : 1592, "name" : "Chuck", "dept" : "BT", "address" : "VZA" }
{ "_id" : ObjectId("615eb9f93b38ece8237a3800"), "studentid" : 1500, "name" : "Rischard", "dept" : "PE", "address" : "VZA" }
>
```

4.

Ascending Order:

```
Administrator: Command Prompt - mongo
> db.StuData.find().sort({studentid:1})
{ "_id" : ObjectId("615eb9f93b38ece8237a3800"), "studentid" : 1500, "name" : "Rischard", "dept" : "PE", "address" : "VZA" }
{ "_id" : ObjectId("615eb9f93b38ece8237a37fa"), "studentid" : 1540, "name" : "Miniyo", "dept" : "CIVIL", "address" : "GUN" }
{ "_id" : ObjectId("615eb9f93b38ece8237a37f6"), "studentid" : 1542, "name" : "Chapa", "dept" : "CSE", "address" : "GUN" }
{ "_id" : ObjectId("615eb9f93b38ece8237a37f8"), "studentid" : 1587, "name" : "Geets", "dept" : "ECE", "address" : "TEN" }
{ "_id" : ObjectId("615eb9f93b38ece8237a37ff"), "studentid" : 1592, "name" : "Chuck", "dept" : "BT", "address" : "VZA" }
{ "_id" : ObjectId("615eb9f93b38ece8237a37f3"), "studentid" : 1594, "name" : "Zudumba", "dept" : "CSE", "address" : "VZA" }
{ "_id" : ObjectId("615eb9f93b38ece8237a37fc"), "studentid" : 1595, "name" : "Varen", "dept" : "ME", "address" : "GUN" }
{ "_id" : ObjectId("615eb9f93b38ece8237a37fe"), "studentid" : 1603, "name" : "Varshita", "dept" : "ECE", "address" : "VZA" }
{ "_id" : ObjectId("615eb9f93b38ece8237a37f4"), "studentid" : 1607, "name" : "Hidamba", "dept" : "CSE", "address" : "GUN" }
{ "_id" : ObjectId("615eb9f93b38ece8237a37fb"), "studentid" : 1610, "name" : "Bharg", "dept" : "ME", "address" : "TEN" }
{ "_id" : ObjectId("615eb9f93b38ece8237a37f5"), "studentid" : 1642, "name" : "Jyoto", "dept" : "CSE", "address" : "VZA" }
{ "_id" : ObjectId("615eb9f93b38ece8237a37f9"), "studentid" : 1654, "name" : "Anjani", "dept" : "BP", "address" : "VZA" }
{ "_id" : ObjectId("615eb9f93b38ece8237a37f7"), "studentid" : 1668, "name" : "Pronto", "dept" : "BP", "address" : "GUN" }
{ "_id" : ObjectId("615eb9f93b38ece8237a37fd"), "studentid" : 1677, "name" : "Soven", "dept" : "ME", "address" : "VZA" }
>
```

Descending Order:

```
Administrator: Command Prompt - mongo
> db.StuData.find().sort({studentid:-1})
{ "_id" : ObjectId("615eb9f93b38ece8237a37fd"), "studentid" : 1677, "name" : "Soven", "dept" : "ME", "address" : "VZA" }
{ "_id" : ObjectId("615eb9f93b38ece8237a37f7"), "studentid" : 1668, "name" : "Pronto", "dept" : "BP", "address" : "GUN" }
{ "_id" : ObjectId("615eb9f93b38ece8237a37f9"), "studentid" : 1654, "name" : "Anjani", "dept" : "BP", "address" : "VZA" }
{ "_id" : ObjectId("615eb9f93b38ece8237a37f5"), "studentid" : 1642, "name" : "Jyoto", "dept" : "CSE", "address" : "VZA" }
{ "_id" : ObjectId("615eb9f93b38ece8237a37fb"), "studentid" : 1610, "name" : "Bharg", "dept" : "ME", "address" : "TEN" }
{ "_id" : ObjectId("615eb9f93b38ece8237a37f4"), "studentid" : 1607, "name" : "Hidamba", "dept" : "CSE", "address" : "GUN" }
{ "_id" : ObjectId("615eb9f93b38ece8237a37fe"), "studentid" : 1603, "name" : "Varshita", "dept" : "ECE", "address" : "VZA" }
{ "_id" : ObjectId("615eb9f93b38ece8237a37fc"), "studentid" : 1595, "name" : "Varen", "dept" : "ME", "address" : "GUN" }
{ "_id" : ObjectId("615eb9f93b38ece8237a37f3"), "studentid" : 1594, "name" : "Zudumba", "dept" : "CSE", "address" : "VZA" }
{ "_id" : ObjectId("615eb9f93b38ece8237a37ff"), "studentid" : 1592, "name" : "Chuck", "dept" : "BT", "address" : "VZA" }
{ "_id" : ObjectId("615eb9f93b38ece8237a37f8"), "studentid" : 1587, "name" : "Geets", "dept" : "ECE", "address" : "TEN" }
{ "_id" : ObjectId("615eb9f93b38ece8237a37f6"), "studentid" : 1542, "name" : "Chapa", "dept" : "CSE", "address" : "GUN" }
{ "_id" : ObjectId("615eb9f93b38ece8237a37fa"), "studentid" : 1540, "name" : "Miniyo", "dept" : "CIVIL", "address" : "GUN" }
{ "_id" : ObjectId("615eb9f93b38ece8237a3800"), "studentid" : 1500, "name" : "Rischard", "dept" : "PE", "address" : "VZA" }
>
```

5.


```
Administrator: Command Prompt - mongo

> db.StuMark.find()
{ "_id" : ObjectId("615ec1413b38ece8237a3802"), "studentid" : 1594, "sub1" : 87, "sub2" : 100, "sub3" : 91, "sub4" : 83 }
{ "_id" : ObjectId("615ec1413b38ece8237a3803"), "studentid" : 1607, "sub1" : 95, "sub2" : 89, "sub3" : 98, "sub4" : 97 }
{ "_id" : ObjectId("615ec1413b38ece8237a3804"), "studentid" : 1642, "sub1" : 97, "sub2" : 83, "sub3" : 87, "sub4" : 94 }
{ "_id" : ObjectId("615ec1413b38ece8237a3805"), "studentid" : 1542, "sub1" : 86, "sub2" : 86, "sub3" : 100, "sub4" : 80 }
{ "_id" : ObjectId("615ec1413b38ece8237a3806"), "studentid" : 1668, "sub1" : 95, "sub2" : 91, "sub3" : 98, "sub4" : 89 }
{ "_id" : ObjectId("615ec1413b38ece8237a3807"), "studentid" : 1587, "sub1" : 90, "sub2" : 95, "sub3" : 84, "sub4" : 100 }
{ "_id" : ObjectId("615ec1413b38ece8237a3808"), "studentid" : 1654, "sub1" : 89, "sub2" : 100, "sub3" : 89, "sub4" : 83 }
{ "_id" : ObjectId("615ec1413b38ece8237a3809"), "studentid" : 1540, "sub1" : 83, "sub2" : 86, "sub3" : 83, "sub4" : 81 }
{ "_id" : ObjectId("615ec1413b38ece8237a380a"), "studentid" : 1610, "sub1" : 97, "sub2" : 87, "sub3" : 87, "sub4" : 88 }
{ "_id" : ObjectId("615ec1413b38ece8237a380b"), "studentid" : 1595, "sub1" : 99, "sub2" : 95, "sub3" : 84, "sub4" : 84 }
{ "_id" : ObjectId("615ec1413b38ece8237a380c"), "studentid" : 1677, "sub1" : 98, "sub2" : 92, "sub3" : 80, "sub4" : 94 }
{ "_id" : ObjectId("615ec1413b38ece8237a380d"), "studentid" : 1603, "sub1" : 91, "sub2" : 90, "sub3" : 99, "sub4" : 99 }
{ "_id" : ObjectId("615ec1413b38ece8237a380e"), "studentid" : 1592, "sub1" : 83, "sub2" : 90, "sub3" : 92, "sub4" : 94 }
{ "_id" : ObjectId("615ec1413b38ece8237a380f"), "studentid" : 1500, "sub1" : 81, "sub2" : 99, "sub3" : 100, "sub4" : 94 }
> db.StuData.aggregate([ { $lookup: { from:"StuMark", localField:"studentid", foreignField:"studentid",as:"RESULT" } } ] )
{ "_id" : ObjectId("615eb9f93b38ece8237a37f3"), "studentid" : 1594, "name" : "Zudumba", "dept" : "CSE", "address" : "VZA", "RESULT" : [ { "_id" : ObjectId("615ec1413b38ece8237a3802"), "studentid" : 1594, "sub1" : 87, "sub2" : 100, "sub3" : 91, "sub4" : 83 } ] }
{ "_id" : ObjectId("615eb9f93b38ece8237a37f4"), "studentid" : 1607, "name" : "Hidamba", "dept" : "CSE", "address" : "GUN", "RESULT" : [ { "_id" : ObjectId("615ec1413b38ece8237a3803"), "studentid" : 1607, "sub1" : 95, "sub2" : 89, "sub3" : 98, "sub4" : 97 } ] }
{ "_id" : ObjectId("615eb9f93b38ece8237a37f5"), "studentid" : 1642, "name" : "Jyoto", "dept" : "CSE", "address" : "VZA", "RESULT" : [ { "_id" : ObjectId("615ec1413b38ece8237a3804"), "studentid" : 1642, "sub1" : 97, "sub2" : 83, "sub3" : 87, "sub4" : 94 } ] }
{ "_id" : ObjectId("615eb9f93b38ece8237a37f6"), "studentid" : 1542, "name" : "Chapa", "dept" : "CSE", "address" : "GUN", "RESULT" : [ { "_id" : ObjectId("615ec1413b38ece8237a3805"), "studentid" : 1542, "sub1" : 86, "sub2" : 86, "sub3" : 100, "sub4" : 80 } ] }
{ "_id" : ObjectId("615eb9f93b38ece8237a37f7"), "studentid" : 1668, "name" : "Pronto", "dept" : "BP", "address" : "GUN", "RESULT" : [ { "_id" : ObjectId("615ec1413b38ece8237a3806"), "studentid" : 1668, "sub1" : 95, "sub2" : 91, "sub3" : 98, "sub4" : 89 } ] }
{ "_id" : ObjectId("615eb9f93b38ece8237a37f8"), "studentid" : 1587, "name" : "Geets", "dept" : "ECE", "address" : "TEN", "RESULT" : [ { "_id" : ObjectId("615ec1413b38ece8237a3807"), "studentid" : 1587, "sub1" : 90, "sub2" : 95, "sub3" : 84, "sub4" : 100 } ] }
{ "_id" : ObjectId("615eb9f93b38ece8237a37f9"), "studentid" : 1654, "name" : "Anjani", "dept" : "BP", "address" : "VZA", "RESULT" : [ { "_id" : ObjectId("615ec1413b38ece8237a3808"), "studentid" : 1654, "sub1" : 89, "sub2" : 100, "sub3" : 89, "sub4" : 83 } ] }
{ "_id" : ObjectId("615eb9f93b38ece8237a37fa"), "studentid" : 1540, "name" : "Miniyo", "dept" : "CIVIL", "address" : "GUN", "RESULT" : [ { "_id" : ObjectId("615ec1413b38ece8237a3809"), "studentid" : 1540, "sub1" : 83, "sub2" : 86, "sub3" : 83, "sub4" : 81 } ] }
{ "_id" : ObjectId("615eb9f93b38ece8237a37fb"), "studentid" : 1610, "name" : "Bharg", "dept" : "ME", "address" : "TEN", "RESULT" : [ { "_id" : ObjectId("615ec1413b38ece8237a380a"), "studentid" : 1610, "sub1" : 97, "sub2" : 87, "sub3" : 87, "sub4" : 88 } ] }
{ "_id" : ObjectId("615eb9f93b38ece8237a37fc"), "studentid" : 1595, "name" : "Varen", "dept" : "ME", "address" : "GUN", "RESULT" : [ { "_id" : ObjectId("615ec1413b38ece8237a380b"), "studentid" : 1595, "sub1" : 99, "sub2" : 95, "sub3" : 84, "sub4" : 84 } ] }
{ "_id" : ObjectId("615eb9f93b38ece8237a37fd"), "studentid" : 1677, "name" : "Soven", "dept" : "ME", "address" : "VZA", "RESULT" : [ { "_id" : ObjectId("615ec1413b38ece8237a380c"), "studentid" : 1677, "sub1" : 98, "sub2" : 92, "sub3" : 80, "sub4" : 94 } ] }
{ "_id" : ObjectId("615eb9f93b38ece8237a37fe"), "studentid" : 1603, "name" : "Varshita", "dept" : "ECE", "address" : "VZA", "RESULT" : [ { "_id" : ObjectId("615ec1413b38ece8237a380d"), "studentid" : 1603, "sub1" : 91, "sub2" : 90, "sub3" : 99, "sub4" : 99 } ] }
{ "_id" : ObjectId("615eb9f93b38ece8237a37ff"), "studentid" : 1592, "name" : "Chuck", "dept" : "BT", "address" : "VZA", "RESULT" : [ { "_id" : ObjectId("615ec1413b38ece8237a380e"), "studentid" : 1592, "sub1" : 83, "sub2" : 90, "sub3" : 92, "sub4" : 94 } ] }
{ "_id" : ObjectId("615eb9f93b38ece8237a3800"), "studentid" : 1500, "name" : "Rischard", "dept" : "PE", "address" : "VZA", "RESULT" : [ { "_id" : ObjectId("615ec1413b38ece8237a380f"), "studentid" : 1500, "sub1" : 81, "sub2" : 99, "sub3" : 100, "sub4" : 94 } ] }
>
```