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## MongoDB Practical Slip Solution

### Slip 1

2) And 3)=>

>

```
db.student.insert({name:"Abhi",course:[{coursename:"bcs"},
{
coursename:"bvoc"}],marks:80,age:21,gender:"male",city:"p
une"})
```

```
WriteResult({ "nInserted" : 1 })
```

>

```
db.student.insert({name:"mukesh",course:[{coursename:"bc
s
"},{coursename:"bvoc"}],marks:60,age:22,gender:"male",cit
y:
"pune"})
```

```
WriteResult({ "nInserted" : 1 })
```

>

```
db.student.insert({name:"manisha",course:[{coursename:"m
cs"},{coursename:"bvoc"}],marks:90,age:22,gender:"female
",city:"mumbai"})
```

```
WriteResult({ "nInserted" : 1 })
```

>

```
db.student.insert({name:"manasi",course:[{coursename:"mc
s"},{coursename:"bvoc"}],marks:92,age:22,gender:"female",
city:"latur"})
```

```
WriteResult({ "nInserted" : 1 })
```

>

```
db.student.insert({name:"apurva",course:[{coursename:"mc
s"},{coursename:"bvoc"}],marks:37,age:22,gender:"female",
city:"sasvad"})
```

```
WriteResult({ "nInserted" : 1 })
>
```

```
db.student.insert({name:"arati",course:[{coursename:"mcs"},
{coursename:"bvoc"}],marks:32,age:22,gender:"female",city:
:"bekarai"})
WriteResult({ "nInserted" : 1 })
```

4)=>

```
a) > db.student.count({marks:{$gt:80}})
b) > db.student.find({marks:{$lt:40}})
c) > var my=db.student.find({marks:{$gt:70}});
> while(my.hasNext()){print(tojson(my.next()));}
d)>db.student.find({gender:"female",$or:[{city:"pune"},{city:"
mumbai"}],{marks:{$lt:50}}})
```

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## slip 2

2) &3)=>

```
> db.product.insert({name:"robot",price:12000})
WriteResult({ "nInserted" : 1 })
```

```
> db.product.insert({name:"toycar",price:2000})
WriteResult({ "nInserted" : 1 })
```

```
> db.product.insert({name:"cricketset",price:9000})
WriteResult({ "nInserted" : 1 })
```

```
> db.product.insert({name:"studymaterial",price:19000})
WriteResult({ "nInserted" : 1 })
```

```
> db.order.insert({orderno:3736,custName:"arun
kumar",product:{productName:"toycar",price:20000},order_
date:"12/2/2019",stetus:"processed",Totalbill:2039,invoice:{i
nvoiceNO:67564,bill:2039,date:"17/2/2019"}})
```

```
WriteResult({ "nInserted" : 1 })
```

```
> db.order.insert({orderno:3737,custName:"arun  
kumar",product:{productName:"robot",price:12000},order_d  
ate:"11/3/2019",stetus:"processed",Totalbill:12800,invoice:{i  
nvoiceNO:67574,bill:12039,date:"17/3/2019"}})  
WriteResult({ "nInserted" : 1 })
```

```
> db.order.insert({orderno:3738,custName:"arun  
kumar",product:{productName:"cricketset",price:9000},order  
_date:"15/5/2019",stetus:"in process",Totalbill:9050})  
WriteResult({ "nInserted" : 1 })
```

```
> db.order.insert({orderno:3739,custName:"mukesh  
patil",product:{productName:"studentmaterial",price:19000}  
,order_date:"15/8/2019",stetus:"in process",Totalbill:19080})  
WriteResult({ "nInserted" : 1 })
```

4)

```
a)> db.product.find().pretty()  
b) > db.order.find({Totalbill:{$lt:10000}})  
c) > db.order.find({stetus:"in process"})  
d) >db.order.find({custName:"arun  
kumar",stetus:"processed"})  
*****
```

### slip 3

2)&3)=>

```
> db.book.insert({BName:"shyamchi  
aai",cost:700,author:"sane guruji",published:2007})  
WriteResult({ "nInserted" : 1 })
```

```
> db.book.insert({BName:"Two  
Saints",cost:1700,author:"raguramkrishna",published:2017})  
WriteResult({ "nInserted" : 1 })
```

```
> db.book.insert({BName:"ramkrushna  
paramhans",cost:800,author:"raguramkrishna",published:20  
17})
```

```
WriteResult({ "nInserted" : 1 })
```

```
>
```

```
db.book.insert({BName:"DMS",cost:300,author:"raguramkri  
shna",published:2005})
```

```
WriteResult({ "nInserted" : 1 })
```

```
> db.publisher.insert({pname:"O  
Reilly",language:"English",books:[{BName:"ramkrushna  
paramhans"},{BName:"Two Saints"}],city:"mumbai"})
```

```
WriteResult({ "nInserted" : 1 })
```

```
>
```

```
db.publisher.insert({pname:"vision",language:"English",boo  
ks:[{BName:"DMS"}],city:"pune"})
```

```
WriteResult({ "nInserted" : 1 })
```

```
> db.publisher.insert({pname:"O  
Reilly",language:"marathi",books:[{BName:"shyamchi  
aai"}],city:"mumbai"})
```

```
WriteResult({ "nInserted" : 1 })
```

```
4)
```

```
a)> db.publisher.find({city:"mumbai"})
```

```
b)> db.book.find({cost:{$lt:1000}})
```

```
c) >
```

```
db.book.find({author:"raguramkrishna",published:2017})
```

```
d)> > db.publisher.find({pname:"O  
Reilly",$or:[{language:"English"},{language:"marathi"}]})
```

```
*****
```

**slip 4**

```
2)&3)=>
```

```
>
db.Hospital.insert({Hno:1,Hname:"AAA",Specialization:["Pe
diatric","Gynaec","Orthopaedic"],People:[{Pname:"PQR",Ra
ting:4},{Pname:"SDE",Rating:5}],Doctor:[{"Dname" :
"WWW","Visit" : "Sunday"}]})
WriteResult({ "nInserted" : 1 })
```

```
>
db.Hospital.insert({Hno:2,Hname:"BBB",Specialization:["Gy
naec","Orthopaedic"],People:[{Pname:"POP",Rating:2},{Pna
me:"SDE",Rating:3}],Doctor:[{"Dname":"XXX",Visit:"Monday
"}]})
WriteResult({ "nInserted" : 1 })
```

```
>
db.Hospital.insert({Hno:3,Hname:"CCC",Specialization:["Gy
naec","Orthopaedic","Pediatric"],People:[{Pname:"KLO",Rat
ing:3},{Pname:"LPO",Rating:3}],Doctor:[{"Dname" :
"XXX","Visit":"Tuesday"}]})
WriteResult({ "nInserted" : 1 })
```

```
4)
a) > db.Hospital.find({Specialization:"Pediatric"})
b)>
db.Hospital.find({Hname:"CCC","Doctor.Visit":"Tuesday"})
c)>
db.Hospital.find({Specialization:{$not:{$size:1}},"Doctor.Dna
me":"XXX"})
d) > db.Hospital.find({"People.Rating":{ $gt: 3
},Hname:"AAA"})
*****
```

**slip 5**

2)&3)=>

```
>
db.post.insert({title:"online",url:"www.abc.com",tag:["food",
```

```
"travel"],pname:"mukesh",pdate:new Date("2019-03-12"),like:89,user:[{name:"abhi",comment:"good",message:"do best", cdate:new Date("2020-03-12"),like:1}])
WriteResult({ "nInserted" : 1 })
>
```

```
db.post.insert({title:"wetpet",url:"www.wetpet.com",tag:["food","travel"],pname:"Amit",pdate:new Date("2018-03-12"),like:82,user:[{name:"abhi",comment:"good",message:"dobest",time:"4pm",like:1},{name:"mukesh",comment:"best",message:"success", cdate:new Date("2008-11-12"),like:2}])
WriteResult({ "nInserted" : 1 })
>
```

```
db.post.insert({title:"wetpet",url:"www.wetpet.com",tag:["food","travel","magic"],pname:"abhijeet",pdate:new Date("2017-03-12"),like:182,user:[{name:"sagar",comment:"like",message:"dobest",time:"4pm",like:1},{name:"mukesh",comment:"best",message:"success", cdate:new Date("2019-03-12"),like:2}])
WriteResult({ "nInserted" : 1 })
>
```

```
db.post.insert({title:"nonveg",url:"www.non.com",tag:["food","travel","chicken"],pname:"Amit",pdate:new Date("2019-07-12"),like:82,user:[{name:"manisha",comment:"good",message:"dobest",time:"4pm",like:0},{name:"manasi",comment:"best",message:"success", cdate:new Date("2018-03-12"),like:0}])
WriteResult({ "nInserted" : 1 })
4)
```

```
a) >db.post.find({tag:"food"})
b) >db.post.find({pname:"Amit"})
```

```
c) > db.post.find({tag:"travel",pdate:{"$lte":new Date("2018-03-11")},"user.name":"sagar","user.comment":"like"})
```

```
d) > db.post.find({$or:[{"user.cdate":{"$lte":new Date("2019-08-07")}}, {"user.like":0}]})
```

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## slip6

```
2)&3)=>
```

```
> db.turisum.insert({name:"veena  
word",rate:9,package:[{pname:"shillong",cost:10000},{pnam  
e:"gujart",cost:7000},{pname:"karnataka",cost:6000}]})
```

```
>
```

```
db.turisum.insert({name:"rohit",rate:7,package:[{pname:"shil  
long",cost:10000},{pname:"rujan",cost:7000}]})
```

```
>
```

```
db.tour.insert({sourc:"john",destination:"shillong",toerisumN  
ame:"veenaword",tourisumrate:8000,expense:20000,year:2  
018,custome  
r:[{cname:"mukesh",city:"pune"},{cname:"abhijeet  
sangita",city:"baramati"},{cname:"manisha",city:"15no"},{cna  
me:"manasi",city:"latur"}]})
```

```
>
```

```
db.tour.insert({sourc:"john",destination:"karnataka",toerisu  
mName:"veenaword",tourisumrate:80090,expense:20900,y  
ear:2017,custom  
er:[{cname:"mukesh",city:"pune"},{cname:"abhijeet  
sangita",city:"baramati"},{cname:"manisha",city:"15no"},{cna  
me:"manasi",city:"latur"}]})
```

```
>
```

```
db.tour.insert({sourc:"john",destination:"rajasthan",toerisum  
Name:"rohit",tourisumrate:6000,expense:30400,year:2019,  
customer:[{cname:"mukesh",city:"pune"},{cname:"abhijeet
```

```
sangita",city:"baramati"},{cname:"manisha",city:"15no"},{cname:"manasi",city:"latur"}]})
```

>

```
db.tour.insert({sourc:"john",destination:"taj",toerisumName:"rohit",tourisumrate:60090,expense:10400,year:2016,customer:[{cname:"mukesh",city:"pune"},{cname:"abhijeet sangita",city:"baramati"},{cname:"manisha",city:"15no"},{cname:"manasi",city:"latur"}]})
```

4)

```
a) >db.turisum.find({name:"veena word"}).pretty()
```

```
b) >db.turisum.find({}).sort({"rate":-1}).limit(1)
```

c) >

```
db.tour.aggregate([{"$sort":{"year":1}},{"$limit":3},{$group:{_id:null,"count":{"$sum":"$expense"}}}])
```

```
d) > db.tour.find({destination:"shillong"})
```

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## slip 7

2)&3)=>

```
> db.scien.insert({fname:"mukesh",lname:"navse",BOD:new Date("1952-04-
```

```
18"),DOD:"stillalive",field:["tcs","java","c","sql"],award:[{name:"turing
```

```
machine",year:1976},{name:"robotic",year:1998},{name:"code talent",year:1995}}])
```

```
WriteResult({ "nInserted" : 1 })
```

```
> db.scien.insert({fname:"abhi",lname:"nalave",BOD:new Date("1972-04-
```

```
18"),DOD:"stillalive",field:["tcs","java","sql"],award:[{name:"codemaster",year:1976},{name:"robot",year:1998},{name:"puzzletalent",year:1995}}])
```

```
WriteResult({ "nInserted" : 1 })
```

>



```
db.scien.insert({fname:"manisha",lname:"hipparkar",BOD:new Date("1942-04-18"),DOD:new Date("2009-08-06"),field:["tcs","java"],award:[{name:"topper",year:1976},{name:"puraskar",year:1998},{name:"puzzletalent",year:1995}]}))
```

```
WriteResult({ "nInserted" : 1 })
```

```
4)
```

```
a) > db.scien.find({ lname: { $regex: /n/ } })
```

```
b) > db.scien.find({BOD:{"$gt":new Date("1950-03-11")},DOD:"still alive"})
```

```
c)
```

```
>db.scien.aggregate([{$group:{_id:{year:"$award.year",Name:"$award.name"}}}])
```

```
d) > db.scien.find({"award.name":"turing machine","award.year":{$lt:1980},field:{$size:4}})
```

```
*****
```

## slip8

```
2)&3)=>
```

```
>
```

```
db.item.insert({itemName:"planner",tag:["wash","food","vehicle"],status:"A",height:5,width:9,instack:15,warehouse:[{location:"pune",quntity:36},{location:"mumbai",quntity:67}]})
```

```
WriteResult({ "nInserted" : 1 })
```

```
>
```

```
db.item.insert({itemName:"toycar",tag:["food","vehicle"],status:"D",height:5,width:9,instack:15,warehouse:[{location:"pune",quntity:36},{location:"mumbai",quntity:67}]})
```

```
WriteResult({ "nInserted" : 1 })
```

```
> db.item.insert({itemName:"robotic car",tag:["food","vehicle"],status:"A",height:9,width:9,instack:5,warehouse:[{location:"pune",quntity:26},{location:"mumbai",quntity:17}]})
```

```
WriteResult({ "nInserted" : 1 })
```

```
>
```

```
db.item.insert({itemName:"bag",tag:["food","vehicle","school","travel"],status:"c",height:19,width:39,instack:75,warehouse:[{location:"surat",quntity:26},{location:"lanavala",quntity:17}]})
```

```
> WriteResult({ "nInserted" : 1 })
```

```
4)
```

```
a) > db.item.find({status:"D","warehouse.quntity":{$gt:30}})
```

```
b) > db.item.find({"tag":{$size:3}})
```

```
c) >
```

```
db.item.find({$or:[{status:"A"},{"warehouse.quntity":{$lt:30},height:{$gt:10}]})
```

```
d) > db.item.find({itemName:"planner",instack:{$lt:20}})
```

```
*****
```

## slip 9

```
2)&3)=>
```

```
>
```

```
db.transaction.insert({itemName:"toy",customerName:"john",paymentmode:"debitcard",payment:8000})
```

```
WriteResult({ "nInserted" : 1 })
```

```
>
```

```
db.transaction.insert({itemName:"car",customerName:"john",paymentmode:"creditcard",payment:4000})
```

```
WriteResult({ "nInserted" : 1 })
```

```
>
```

```
db.transaction.insert({itemName:"bag",customerName:"mukesh",paymentmode:"cash",payment:5000})
```

```
WriteResult({ "nInserted" : 1 })
```

```
>
```

```
db.transaction.insert({itemName:"airlineticket",customerName:"rohit",paymentmode:"cash",payment:50090})
```

```
WriteResult({ "nInserted" : 1 })
```

```
>
```

```
db.transaction.insert({itemName:"mango",customerName:"abhijeet",paymentmode:"creditcard",payment:8000})
```

```
WriteResult({ "nInserted" : 1 })
```

```

>
db.transaction.insert({itemName:"bus",customerName:"man
asi",paymentmode:"debitcard",payment:7000})
WriteResult({ "nInserted" : 1 })
4)
a) > db.transaction.find({customerName:"john"})
b) > db.transaction.find({paymentmode:"debitcard"})
c) >
db.transaction.aggregate([{$match:{"paymentmode":"creditc
ard"}},{$group:{_id:null,"count":{"$sum":"$payment"}}}])
d) >
db.transaction.aggregate([{$group:{_id:"$paymentmode","c
o
unt":{"$sum":"$payment"}}}])
*****

```

## slip10

```

2)&3)=>
>
db.custome.insert({cname:"mukesh",modelname:"samsung
j6",amount:20000})
WriteResult({ "nInserted" : 1 })
>
db.custome.insert({cname:"abhijeet",modelname:"samsung
j6",amount:20060})
WriteResult({ "nInserted" : 1 })
> db.custome.insert({cname:"manasi",modelname:"iphone
7+",amount:30060})
WriteResult({ "nInserted" : 1 })
> db.custome.insert({cname:"manisha",modelname:"iphone
7+",amount:30070})
WriteResult({ "nInserted" : 1 })
> db.custome.insert({cname:"dipak",modelname:"iphone
7+",amount:30800})
WriteResult({ "nInserted" : 1 })
>

```

```

db.shopping.insert({brandname:"samsung",rate:6,model:[{m
name:"s40",ram:"3GB",rom:"32GB",rate:4},{mname:"j6",ram
:"4GB",rom:"32GB",rate:7},{mname:"j7",ram:"6GB",rom:"64
GB",rate:6}}})
WriteResult({ "nInserted" : 1 })
>
db.shopping.insert({brandname:"vivo",rate:8,model:[{mnam
e:"Y55",ram:"3GB",rom:"32GB",rate:6},{mname:"Ys5",ram:"
4
GB",rom:"32GB",rate:4},{mname:"YYY",ram:"6GB",rom:"64
G
B",rate:6}}})
WriteResult({ "nInserted" : 1 })
4)
a) >
db.shopping.find({"model.ram":"3GB","model.rom":"32GB"})
b) > db.custome.find({modelname:"samsung j6"})
c) > db.shopping.aggregate([{"$sort":{"rate":-
1}},{"$limit":1},{ $group:{_id:"$brandname"}}])
d) > db.custome.find().sort( { "cname": 1 } )
*****

```