BIG DATA ANALYTICS WEEK2 ASSIGNMENT NAME – KARTHIK S USN – 1BM19CS070

```
bmsce@bmsce-Precision-T1700: ~
bye
bmsce@bmsce-Precision-T1700:~$ mongoexport --host localhost --db Karthik --collection Student --csv --out /home/bmsce/Desktop/output.txt --fie lds "_id","StudName","Usn","Semester","Dept_Name","CGPA","Hobbies"; 2022-04-18T15:11:00.509+0530 csv flag is deprecated; please use --type=csv instead 2022-04-18T15:11:00.511+0530 connected to: localhost
2022-04-18T15:11:00.511+0530
                                                exported 1 record
                 -Precision-T1700:~$ pwd
/home/bmsce
bmsce@bmsce-Precision-T1700:~$ mongoexport --host localhost --db Karthik --collection Student --type=csv --out /home/bmsce/Desktop/output.txt --fields "_id","StudName","Usn","Semester","Dept_Name","CGPA","Hobbies"
2022-04-18T15:16:31.097+0530 connected to: localhost
2022-04-18T15:16:31.098+0530 exported 1 record
                                                exported 1 record
2022-04-18T15:16:31.098+0530
bmsce@bmsce-Precision-T1700:-$
bmsce@bmsce-Precision-T1700:-$
bmsce@bmsce-Precision-T1700:-$
sudo mongoexport --host localhost --db Karthik --collection Student --type=csv --out /home/bmsce/Desktop/output .txt --fields "_id", "StudName", "Usn", "Semester", "Dept_Name", "CGPA", "Hobbies"
[sudo] password for bmsce:
2022-04-18T15:19:13.567+0530 connected to: localhost
2022-04-18T15:19:13.567+0530
                                               exported 1 record
                                       00:~$ mongo
MongoDB shell version v3.6.8
connecting to: mongodb://127.0.0.1:27017
Implicit session: session { "id" : UUID("55fb0928-57d3-4119-a529-34f8a2619c30") }
MongoDB server version: 3.6.8
Server has startup warnings:
2022-04-18T13:57:39.395+0530 I STORAGE
                                                             [initandlisten]
2022-04-18T13:57:39.395+0530 I STORAGE
                                                             initandlisten] ** WARNING: Using the XFS filesystem is strongly recommended with the WiredTiger stora
ge engine
                                                             [initandlisten] **
2022-04-18T13:57:39.395+0530 I STORAGE
                                                                                                        See http://dochub.mongodb.org/core/prodnotes-filesystem
                                                             [initandlisten] **
[initandlisten] **
[initandlisten] **
[initandlisten]
2022-04-18T13:57:48.671+0530 I CONTROL
2022-04-18T13:57:48.671+0530 I CONTROL
                                                                                     ** WARNING: Access control is not enabled for the database.
2022-04-18T13:57:48.671+0530 I CONTROL
                                                                                                        Read and write access to data and configuration is unrestricted.
2022-04-18T13:57:48.671+0530 I CONTROL
  use Karthik
switched to db Karthik
  db.Student.find({});
"_id" : 1, "studName" : "John", "Grade" : "VII", "Hobbies" : "InternetSurfing" }
  ^<u>c</u>
bye
```

recision-T1700:~\$ mongo

connecting to: mongodb://127.0.0.1:27017

MongoDB shell version v3.6.8

```
bmsce@bmsce-Precision-T1700: ~
2022-04-18T15:11:00.511+0530
                                       exported 1 record
           ce-Precision-T1700:~$ pwd
bmscegbmsce-Precision-T1700:~$ mongoexport --host localhost --db Karthik --collection Student --type=csv --out /home/bmsce/Desktop/output.txt --fields "_id","StudName","Usn","Semester","Dept_Name","CGPA","Hobbies" 2022-04-18T15:16:31.097+0530 connected to: localhost
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                                                 [initandlisten]
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                                                  [initandlisten] **
                                                                                    See http://dochub.mongodb.org/core/prodnotes-filesystem
                                                 [initandlisten]
[initandlisten]
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                                                  [initandlisten]
                                                                                    Read and write access to data and configuration is unrestricted.
                                                 [initandlisten]
 use Karthik
switched to db Karthik
 db.Student.find(\{\}); "_id" : 1, "studName" : "John", "Grade" : "VII", "Hobbies" : "InternetSurfing" \} ^C
bye
nsce@bmsce-Precision-T1700:~$
```

```
db.createCollection("faculty");
   "ok" : 1 }
  db.faculty.insert({_id:1,name:"Dr. Balaraman Ravindran",designation:"Professor",department:"CSE",age:45,salary:100000,specialization:['pytho','mysql','sklearn', 'tensorflow']});
riteResult({ "nInserted" : 1 })
writeResult({ "nInserted" : 1 })
> db.faculty.insert({_id:2,name:"Dr. Mahadev Ghorki",designation:"Assistant Professor",department:"CSE",age:35,salary:80000,specialization:['p
ython','numpy','sklearn', 'tenso
WriteResult({ "nInserted" : 1 })
                                'tensorflow', 'java']});
db.faculty.aggregate ( {$match:{department:"ME"}}, {$group : {_id : "$designation", AverageSal :{$avg:"$salary"} } }, {$match:{AverageSal:{
$gt:50000}}});
{ "_id" : "Associate Professor", "AverageSal" : 75000
{ "_id" : "Assistant Professor", "AverageSal" : 95000
  db.createCollection("product");
   'ok" : 1 }
  db.product.insert({pid:1,pname:"keyboard",mdate:2001,price:1800,quantity:2});
WriteResult({ "nInserted" : 1 })
> db.product.insert({pid:2,pname:"mouse",mdate:2005,price:1500,quantity:5});
WriteResult({    "nInserted" : 1    })
> db.product.insert({pid:3,pname:"monitor",mdate:2015,price:10000,quantity:9});
 riteResult({    "nInserted" : 1 })
db.product.insert({pid:4,pname:"motherboard",mdate:2021,price:15000,quantity:4});
WriteResult({ "nInserted" : 1 })
> db.product.find({},{pname:1,_id:0})
{ "pname" : "keyboard" }
   "pname" : "mouse" }
    pname" : "motherboard"
  db.product.find({pid:1},{pid:1,_id:0,mdate:1,quantity:1});
   "pid" : 1, "mdate" : 2001, "quantity" : 2 }
db.product.find({price:{$ne:15000}},{pname:1,_id:0});
   "pname" : "keyboard" }
```

```
@(shell):1:20
 db.Bank.update({_id:625d78659329139694f188a6}, {$set: {CustID:5}}, {upsert:true});
uncaught exception: SyntaxError: identifier starts immediately after numeric literal:
@(shell):1:20
 db.Bank.update({_id:"625d78659329139694f188a6"}, {$set: {CustID:5}},{upsert:true});
WriteResult(
         "nMatched" : 0
        "nUpserted" : 1,
"nModified" : 0,
          _id" : "625d78659329139694f188a6"
 db.Bank.find({});
 "_id": ObjectId("625d77809329139694f188a2"), "CustID": 1, "Name": "Trivikram Hegde", "Type": "Savings", "Contact": [ "9945678231" ] }
"_id": ObjectId("625d77bd9329139694f188a3"), "CustID": 2, "Name": "Vishvesh Bhat", "Type": "Savings", "Contact": [ "6325985615", "080-2
3651452"
          ObjectId("625d77e69329139694f188a4"), "CustID" : 3, "Name" : "Vaishak Bhat", "Type" : "Savings", "Contact" : [ "8971456321", "080-33
 29458" ]
   '_id" : ObjectId("625d78229329139694f188a5"), "CustID" : 4, "Name" : "Pramod P Parande", "Type" : "Current", "Contact" : [ "9745236589", "08
 -56324587"
   _id" : ObjectId("625d78659329139694f188a6"), "CustID" : 4, "Name" : "Shreyas R S", "Type" : "Current", "Contact" : [ "9445678321", "044-656
11729" ] }
  "_d":"625d78659329139694f188a6", "CustID" : 5 }
db.Bank.update({_id:"625d78659329139694f188a6", CustID:5}, {$set: {Name:"Sumantha K S", Type:"Savings", Contact:["9856321478","011-65897458"
 }},{upsert:true})
 riteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
 db.Bank.find({});
"_id" : ObjectId("625d77809329139694f188a2"), "CustID" : 1, "Name" : "Trivikram Hegde", "Type" : "Savings", "Contact" : [ "9945678231" ] }
"_id" : ObjectId("625d77bd9329139694f188a3"), "CustID" : 2, "Name" : "Vishvesh Bhat", "Type" : "Savings", "Contact" : [ "6325985615", "080-2
 651452"
  __id" : ObjectId("625d77e69329139694f188a4"), "CustID" : 3, "Name" : "Vaishak Bhat", "Type" : "Savings", "Contact" : [ "8971456321", "080-33"
529458"
   _id" : ÓbjectId("625d78229329139694f188a5"), "CustID" : 4, "Name" : "Pramod P Parande", "Type" : "Current", "Contact" : [ "9745236589", "08
  56324587
   id" : ObjectId("625d78659329139694f188a6"), "CustID" : 4, "Name" : "Shreyas R S", "Type" : "Current", "Contact" : [ "9445678321", "044-656
П
```

```
db.createCollection("Bank");
  "ok" : 1 }
db.insert({CustID:1, Name:"Trivikram Hegde", Type:"Savings", Contact:["9945678231", "080-22364587"]});
uncaught exception: TypeError: db.insert is not a function :
@(shell):1:1
> db.Bank.insert({CustID:1, Name:"Trivikram Hegde", Type:"Savings", Contact:["9945678231", "080-22364587"]});
WriteResult({ "nInserted" : 1 })
 db.Bank.insert({CustID:2, Name:"Vishvesh Bhat", Type:"Savings", Contact:["6325985615", "080-23651452"]});
WriteResult({ "nInserted"
                                1 })
 db.Bank.insert({CustID:3, Name:"Vaishak Bhat", Type:"Savings", Contact:["8971456321", "080-33529458"]});
WriteResult({ "nInserted"
                             : 1 })
 db.Bank.insert({CustID:4, Name: "Pramod P Parande", Type: "Current", Contact: ["9745236589", "080-56324587"]});
writeResult({ "nInserted" : 1 })
 db.Bank.insert({CustID:4,
                                Name: "Shreyas R S", Type: "Current", Contact: ["9445678321", "044-65611729", "080-25639856"]});
 WriteResult({
                "nInserted" : 1 })
  db.Bank.find({});
   _id" : ObjectId("625d77809329139694f188a2"), "CustID" : 1, "Name" : "Trivikram Hegde", "Type" : "Savings", "Contact" : [ "9945678231", "080
 22364587" ] }
[ "_id" : ObjectId("625d77bd9329139694f188a3"), "CustID" : 2, "Name" : "Vishvesh Bhat", "Type" : "Savings", "Contact" : [ "6325985615", "080-2
[651452" ] }
{ "_id" : ObjectId("625d77e69329139694f188a4"), "CustID" : 3, "Name" : "Vaishak Bhat", "Type" : "Savings", "Contact" : [ "8971456321", "080-33
529458" ] }
   _id" : ObjectId("625d78229329139694f188a5"), "CustID" : 4, "Name" : "Pramod P Parande", "Type" : "Current", "Contact" : [ "9745236589", "08
  56324587"
 "_id": ObjectId("625d78659329139694f188a6"), "CustID": 4, "Name": "Shreyas R S", "Type": "Current", "Contact": [ "9445678321", "044-656
1729", "080-25639856" ] }
  db.Bank.updateMany({CustID:1},{$pop:{Contact:1}} );
"acknowledged" : true, "matchedCount" : 1, "modifiedCount" : 1 }
  db.Bank.find({});
  "_id": ObjectId("625d77809329139694f188a2"), "CustID": 1, "Name": "Trivikram Hegde", "Type": "Savings", "Contact": [ "9945678231" ] }
"_id": ObjectId("625d77bd9329139694f188a3"), "CustID": 2, "Name": "Vishvesh Bhat", "Type": "Savings", "Contact": [ "6325985615", "080-2
 651452"
         1 }
  "_id": ObjectId("625d77e69329139694f188a4"), "CustID" : 3, "Name" : "Vaishak Bhat", "Type" : "Savings", "Contact" : [ "8971456321", "080-33
9458" ] }
 29458"
   _id" : ObjectId("625d78229329139694f188a5"), "CustID" : 4, "Name" : "Pramod P Parande", "Type" : "Current", "Contact" : [ "9745236589", "08
 { "_id" : ObjectId("625d78659329139694f188a6"), "CustID" : 4, "Name" : "Shreyas R S", "Type" : "Current", "Contact" : [ "9445678321", "044-656
11729", "080-25639856" ] }
> db.Bank.updateMany({},{$pull:{Contact:"080-25639856"}} );
{ "acknowledged" : true, "matchedCount" : 5, "modifiedCount" : 1 }
  db.Bank.find({});

"_id" : ObjectId("625d77809329139694f188a2"), "CustID" : 1, "Name" : "Trivikram Hegde", "Type" : "Savings", "Contact" : [ "9945678231" ] }

"_id" : ObjectId("625d77bd9329139694f188a3"), "CustID" : 2, "Name" : "Vishvesh Bhat", "Type" : "Savings", "Contact" : [ "6325985615", "080-2
3651452"
  __id" : ObjectId("625d77e69329139694f188a4"), "CustID" : 3, "Name" : "Vaishak Bhat", "Type" : "Savings", "Contact" : [ "8971456321", "080-33"
529458" ] }
{ "_id" : ObjectId("625d78229329139694f188a5"), "CustID" : 4, "Name" : "Pramod P Parande", "Type" : "Current", "Contact" : [ "9745236589", "08
  56324587"
             ] }
   _id" : ObjectId("625d78659329139694f188a6"), "CustID" : 4, "Name" : "Shreyas R S", "Type" : "Current", "Contact" : [ "9445678321", "044-656
 1729"
  db.Bank.createIndex({Name:1, Type:1},{name:});
uncaught exception: SyntaxError: expected expression, got '}' :
@(shell):1:43
  db.Bank.createIndex({Name:1, Type:1},{name:"Find current account holders"});
         "createdCollectionAutomatically" : false,
         "numIndexesBefore" : 1,
"numIndexesAfter" : 2,
"ok" : 1
  db.Bank.find({});
"_id" : ObjectId("625d77809329139694f188a2"), "CustID" : 1, "Name" : "Trivikram Hegde", "Type" : "Savings", "Contact" : [ "9945678231" ] }
"_id" : ObjectId("625d77bd9329139694f188a3"), "CustID" : 2, "Name" : "Vishvesh Bhat", "Type" : "Savings", "Contact" : [ "6325985615", "080-2
3651452"
  __id" : ObjectId("625d77e69329139694f188a4"), "CustID" : 3, "Name" : "Vaishak Bhat", "Type" : "Savings", "Contact" : [ "8971456321", "080-33"
529458'
   56324587"
{ "_id" : ObjectId("625d78659329139694f188a6"), "CustID" : 4, "Name" : "Shreyas R S", "Type" : "Current", "Contact" : [ "9445678321", "044-656
11729" ] }
  db.Bank.getIndexes()
                  "v" : 2,
```