

LAB ASSESSMENT-5

1.) Create patient DB with necessary fields and Perform CURD operation.

PATIENT DATABASE:

>mongod.exe

```
Command Prompt - mongod.exe
Microsoft Windows [Version 6.3.9600]
(c) 2013 Microsoft Corporation. All rights reserved.

C:\Users\S.SARATH>mongod.exe
2021-11-16T10:45:34.276+0530 I CONTROL [initandlisten] MongoDB starting : pid=3408 port=27017 dbpath=C:\data\db\ 64-bit host=SRUTHI
2021-11-16T10:45:34.277+0530 I CONTROL [initandlisten] targetMinOS: Windows 7/Windows Server 2008 R2
2021-11-16T10:45:34.277+0530 I CONTROL [initandlisten] db version v3.6.23
2021-11-16T10:45:34.277+0530 I CONTROL [initandlisten] git version: d352e6a4764659e0d0350ce77279de3c1f243e5c
2021-11-16T10:45:34.277+0530 I CONTROL [initandlisten] OpenSSL version: OpenSSL 1.0.2s-fips 28 May 2019
2021-11-16T10:45:34.278+0530 I CONTROL [initandlisten] allocator: tcmalloc
2021-11-16T10:45:34.278+0530 I CONTROL [initandlisten] modules: none
2021-11-16T10:45:34.278+0530 I CONTROL [initandlisten] build environment:
2021-11-16T10:45:34.278+0530 I CONTROL [initandlisten] distmod: 2008plus-ssl
2021-11-16T10:45:34.278+0530 I CONTROL [initandlisten] distarch: x86_64
2021-11-16T10:45:34.278+0530 I CONTROL [initandlisten] target_arch: x86_64
2021-11-16T10:45:34.278+0530 I CONTROL [initandlisten] options: {}
2021-11-16T10:45:34.278+0530 I STORAGE [initandlisten] exception in initAndListen: NonExistentPath: Data directory C:\data\db\ not found. Create the missing directory or specify another path using (1) the --dbpath command line option, or (2) by adding the 'storage.dbPath' option in the configuration file., terminating
```

>mongo.exe

>show dbs;

```
Command Prompt - mongo.exe
Microsoft Windows [Version 6.3.9600]
(c) 2013 Microsoft Corporation. All rights reserved.

C:\Users\S.SARATH>mongo.exe
MongoDB shell version v3.6.23
connecting to: mongod://127.0.0.1:27017/?gssapiServiceName=mongod
Implicit session: session < "id" : UUID("934b7fb3-2ae7-4c45-96af-71d4f83d9e3e") >
MongoDB server version: 3.6.23
Server has startup warnings:
2021-12-02T11:22:59.692+0530 I CONTROL [initandlisten] ** WARNING: Access control is not enabled for the database.
2021-12-02T11:22:59.693+0530 I CONTROL [initandlisten] ** WARNING: Read and write access to data and configuration is unrestricted.
2021-12-02T11:22:59.693+0530 I CONTROL [initandlisten] ** WARNING: This server is bound to localhost.
2021-12-02T11:22:59.694+0530 I CONTROL [initandlisten] ** WARNING: Remote systems will be unable to connect to this server.
2021-12-02T11:22:59.694+0530 I CONTROL [initandlisten] ** To start the server with --bind_ip <address> to specify which IP addresses it should serve responses from, or with --bind_ip_all to bind to all interfaces. If this behavior is desired, start the server with --bind_ip 127.0.0.1 to disable this warning.
2021-12-02T11:22:59.696+0530 I CONTROL [initandlisten]
> show dbs;
admin                0.000GB
config                0.000GB
employeedb            0.000GB
firstdb              0.000GB
local                 0.000GB
myfirstexample        0.000GB
patientdb            0.000GB
>
```

Creating database and Collection:

```
Select Command Prompt - mongo.exe
> use PatientDetails
switched to db PatientDetails
> db
PatientDetails
> db.createCollection("patientdb")
{ "ok" : 1 }
>
```

Database Name: *PatientDetails*

Collection Name: *patientdb*

Inserting records:

```
Command Prompt - mongo.exe
{ "ok" : 1 }
> db.patientdb.insert({PatientId:1,PatientName:"kowshik",Age:19,Department:"Cardiology",Address:"Katpadi,vellore",Email:"kowshik@gmail.com",Bloodgrp:"O+ve",Phone:9360745079,DateofAppointment:new Date("2021-11-11")})
WriteResult{ "nInserted" : 1 }
> db.patientdb.insert({PatientId:2,PatientName:"Sridhar",Age:19,Department:"Ortho",Address:"Thottapalayam,vellore",Email:"sridhar@gmail.com",Bloodgrp:"A+ve",Phone:9360745126,DateofAppointment:new Date("2021-12-15")})
WriteResult{ "nInserted" : 1 }
> db.patientdb.insert({PatientId:3,PatientName:"Nishanth",Age:18,Department:"Cardiology",Address:"Bagayam,vellore",Email:"nishanth@gmail.com",Bloodgrp:"O-ve",Phone:9360745456,DateofAppointment:new Date("2021-12-16")})
WriteResult{ "nInserted" : 1 }
> db.patientdb.insert({PatientId:4,PatientName:"Tharun",Age:23,Department:"Ortho",Address:"Thorapadi,vellore",Email:"tharun@gmail.com",Bloodgrp:"B+ve",Phone:9360123456,DateofAppointment:new Date("2021-12-17")})
WriteResult{ "nInserted" : 1 }
> db.patientdb.insert({PatientId:5,PatientName:"Sheema",Age:23,Department:"Physio",Address:"Sathuvachari,vellore",Email:"sheema@gmail.com",Bloodgrp:"AB-ve",Phone:9450123456,DateofAppointment:new Date("2021-12-18")})
WriteResult{ "nInserted" : 1 }
>
```

>db.patientdb.insert({PatientId:1,PatientName:"kowshik",Age:19,Department:"Cardiology",Address:"Katpadi,vellore",Email:"kowshik@gmail.com",Bloodgrp:"O+ve",Phone:9360745079,DateofAppointment:new Date("2021-11-11")})

```
>db.patientdb.insert({PatientId:2,PatientName:"Sridhar",Age:19,Department:"Ortho",Address:"Thottapalayam,vellore",Email:"sridhar@gmail.com",Bloodgrp:"A+ve",Phone:9360745126,DateofAppointment:new Date("2021-12-15")})
```

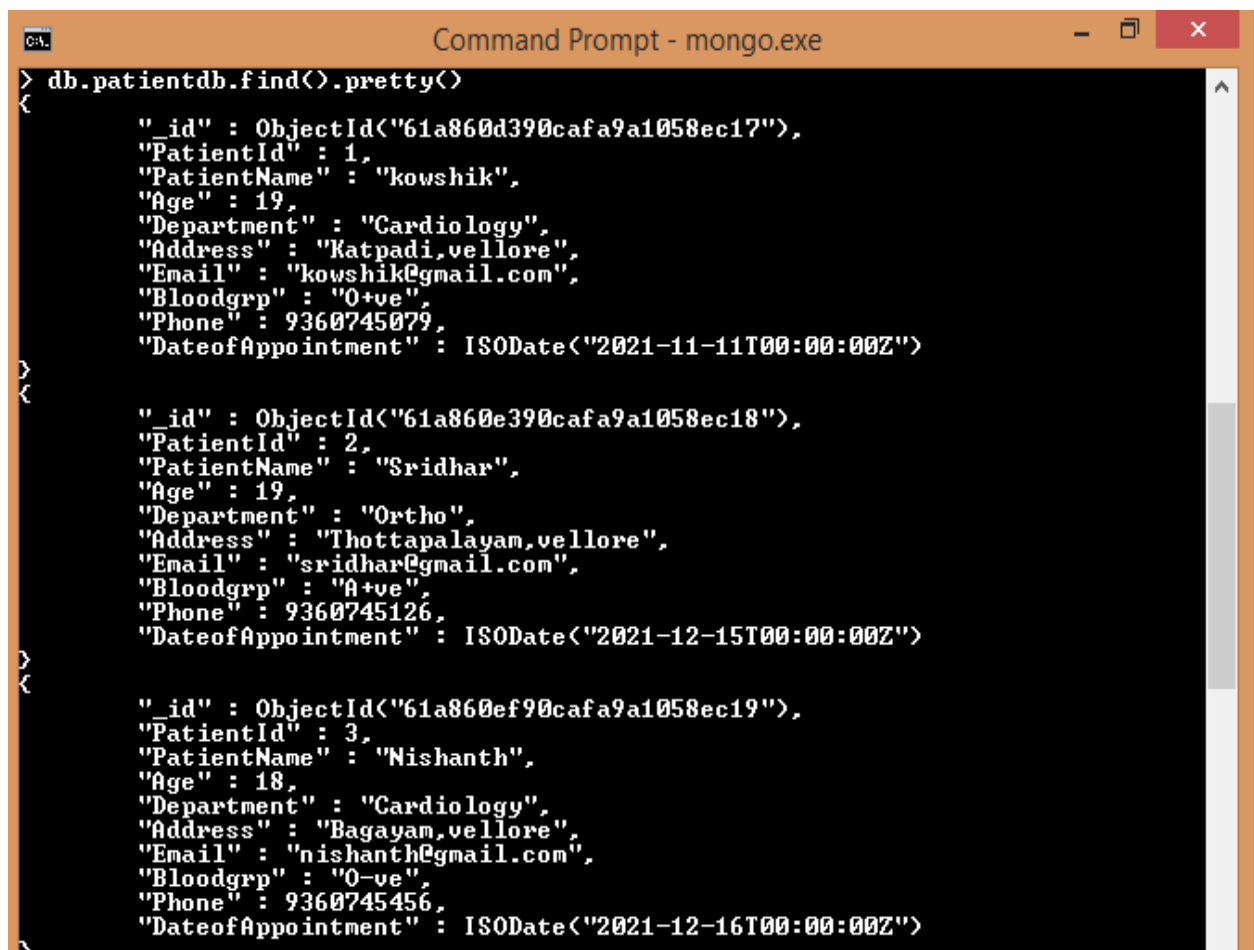
```
>db.patientdb.insert({PatientId:3,PatientName:"Nishanth",Age:18,Department:"Cardiology",Address:"Bagayam,vellore",Email:"nishanth@gmail.com",Bloodgrp:"O-ve",Phone:9360745456,DateofAppointment:new Date("2021-12-16")})
```

```
>db.patientdb.insert({PatientId:4,PatientName:"Tharun",Age:23,Department:"Ortho",Address:"Thorapadi,vellore",Email:"tharun@gmail.com",Bloodgrp:"B+ve",Phone:9360123456,DateofAppointment:new Date("2021-12-17")})
```

```
>db.patientdb.insert({PatientId:5,PatientName:"Sheema",Age:23,Department:"Physio",Address:"Sathuvachari,vellore",Email:"sheema@gmail.com",Bloodgrp:"AB-ve",Phone:9450123456,DateofAppointment:new Date("2021-12-18")})
```

Displaying Records:

```
> db.patientdb.find().pretty()
```



```
Command Prompt - mongo.exe
> db.patientdb.find().pretty()
{
  "_id" : ObjectId("61a860d390cafa9a1058ec17"),
  "PatientId" : 1,
  "PatientName" : "kowshik",
  "Age" : 19,
  "Department" : "Cardiology",
  "Address" : "Katpadi,vellore",
  "Email" : "kowshik@gmail.com",
  "Bloodgrp" : "O+ve",
  "Phone" : 9360745079,
  "DateofAppointment" : ISODate("2021-11-11T00:00:00Z")
}
{
  "_id" : ObjectId("61a860e390cafa9a1058ec18"),
  "PatientId" : 2,
  "PatientName" : "Sridhar",
  "Age" : 19,
  "Department" : "Ortho",
  "Address" : "Thottapalayam,vellore",
  "Email" : "sridhar@gmail.com",
  "Bloodgrp" : "A+ve",
  "Phone" : 9360745126,
  "DateofAppointment" : ISODate("2021-12-15T00:00:00Z")
}
{
  "_id" : ObjectId("61a860ef90cafa9a1058ec19"),
  "PatientId" : 3,
  "PatientName" : "Nishanth",
  "Age" : 18,
  "Department" : "Cardiology",
  "Address" : "Bagayam,vellore",
  "Email" : "nishanth@gmail.com",
  "Bloodgrp" : "O-ve",
  "Phone" : 9360745456,
  "DateofAppointment" : ISODate("2021-12-16T00:00:00Z")
}
```

```

{
  "_id" : ObjectId("61a860ff90cafa9a1058ec1a"),
  "PatientId" : 4,
  "PatientName" : "Tharun",
  "Age" : 23,
  "Department" : "Ortho",
  "Address" : "Thorapadi,vellore",
  "Email" : "tharun@gmail.com",
  "Bloodgrp" : "B+ve",
  "Phone" : 9360123456,
  "DateofAppointment" : ISODate("2021-12-17T00:00:00Z")
}
{
  "_id" : ObjectId("61a8610a90cafa9a1058ec1b"),
  "PatientId" : 5,
  "PatientName" : "Sheema",
  "Age" : 23,
  "Department" : "Physio",
  "Address" : "Sathuvachari,vellore",
  "Email" : "sheema@gmail.com",
  "Bloodgrp" : "AB-ve",
  "Phone" : 9450123456,
  "DateofAppointment" : ISODate("2021-12-18T00:00:00Z")
}

```

Update:

> *db.patientdb.find({PatientName:"Sheema"}).pretty()*

```

> db.patientdb.find({PatientName:"Sheema"}).pretty()
{
  "_id" : ObjectId("61a8610a90cafa9a1058ec1b"),
  "PatientId" : 5,
  "PatientName" : "Sheema",
  "Age" : 23,
  "Department" : "Physio",
  "Address" : "Sathuvachari,vellore",
  "Email" : "sheema@gmail.com",
  "Bloodgrp" : "AB-ve",
  "Phone" : 9450123456,
  "DateofAppointment" : ISODate("2021-12-18T00:00:00Z")
}

```

➔ *Address is getting updated here.*

> *db.patientdb.update(*

... *{ PatientName:"Sheema" },*

... *{*

... *\$set: {*

... *Address: "Velapadi,vellore"*

... *}*

... *}*

... *)*

```

> db.patientdb.update(
...   { PatientName:"Sheema" },
...   {
...     $set: {
...       Address: "Velapadi,vellore"
...     }
...   }
... )
WriteResult<< "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 >>
>

```

> *db.patientdb.find({PatientName:"Sheema"}).pretty()*

```

> db.patientdb.find(<{PatientName:"Sheema"}>).pretty()
{
  "_id" : ObjectId("61a8610a90cafa9a1058ec1b"),
  "PatientId" : 5,
  "PatientName" : "Sheema",
  "Age" : 23,
  "Department" : "Physio",
  "Address" : "Velapadi,vellore",
  "Email" : "sheema@gmail.com",
  "Bloodgrp" : "AB-ve",
  "Phone" : 9450123456,
  "DateofAppointment" : ISODate("2021-12-18T00:00:00Z")
}
>

```

Remove:

> *db.patientdb.find({Age:19}).pretty()*

```

> db.patientdb.find(<{Age:19}>).pretty()
{
  "_id" : ObjectId("61a860d390cafa9a1058ec17"),
  "PatientId" : 1,
  "PatientName" : "kowshik",
  "Age" : 19,
  "Department" : "Cardiology",
  "Address" : "Katpadi,vellore",
  "Email" : "kowshik@gmail.com",
  "Bloodgrp" : "O+ve",
  "Phone" : 9360745079,
  "DateofAppointment" : ISODate("2021-11-11T00:00:00Z")
}
{
  "_id" : ObjectId("61a860e390cafa9a1058ec18"),
  "PatientId" : 2,
  "PatientName" : "Sridhar",
  "Age" : 19,
  "Department" : "Ortho",
  "Address" : "Thottapalayam,vellore",
  "Email" : "sridhar@gmail.com",
  "Bloodgrp" : "A+ve",
  "Phone" : 9360745126,
  "DateofAppointment" : ISODate("2021-12-15T00:00:00Z")
}
>

```

```
> db.patientdb.remove(
```

```
...   { Age: 19 }
```

```
... )
```

```
WriteResult({ "nRemoved" : 2 })
```

```
> db.patientdb.find({Age:19}).pretty()
```

```
> db.patientdb.remove(  
...   { Age: 19 }  
... )  
WriteResult({ "nRemoved" : 2 })  
> db.patientdb.remove( { Age: 19 } )  
WriteResult({ "nRemoved" : 0 })  
>
```

```
> db.patientdb.find().pretty()
```

```
> db.patientdb.find().pretty()  
{  
  "_id" : ObjectId("61a860ef90cafa9a1058ec19"),  
  "PatientId" : 3,  
  "PatientName" : "Nishanth",  
  "Age" : 18,  
  "Department" : "Cardiology",  
  "Address" : "Bagayam,vellore",  
  "Email" : "nishanth@gmail.com",  
  "Bloodgrp" : "O-ve",  
  "Phone" : 9360745456,  
  "DateofAppointment" : ISODate("2021-12-16T00:00:00Z")  
}  
{  
  "_id" : ObjectId("61a860ff90cafa9a1058ec1a"),  
  "PatientId" : 4,  
  "PatientName" : "Tharun",  
  "Age" : 23,  
  "Department" : "Ortho",  
  "Address" : "Thorapadi,vellore",  
  "Email" : "tharun@gmail.com",  
  "Bloodgrp" : "B+ve",  
  "Phone" : 9360123456,  
  "DateofAppointment" : ISODate("2021-12-17T00:00:00Z")  
}  
{  
  "_id" : ObjectId("61a8610a90cafa9a1058ec1b"),  
  "PatientId" : 5,  
  "PatientName" : "Sheema",  
  "Age" : 23,  
  "Department" : "Physio",  
  "Address" : "Uelapadi,vellore",  
  "Email" : "sheema@gmail.com",  
  "Bloodgrp" : "AB-ve",  
  "Phone" : 9450123456,  
  "DateofAppointment" : ISODate("2021-12-18T00:00:00Z")  
}  
>
```

➔ Patients with Age = 19, got removed from the database.

Delete:

```
> try {  
...   db.patientdb.deleteOne( { "PatientName" : "Nishanth" } );  
... } catch (e) {  
...   print(e);  
... }  
  
{ "acknowledged" : true, "deletedCount" : 0 }
```

```
> try {  
...   db.patientdb.deleteOne( { "PatientName" : "Nishanth" } );  
... } catch (e) {  
...   print(e);  
... }  
{ "acknowledged" : true, "deletedCount" : 1 }
```

```
> db.patientdatabase.find().pretty()
```

```
> db.patientdb.find().pretty()  
{  
  "_id" : ObjectId("61a860ff90cafa9a1058ec1a"),  
  "PatientId" : 4,  
  "PatientName" : "Tharun",  
  "Age" : 23,  
  "Department" : "Ortho",  
  "Address" : "Thorapadi,vellore",  
  "Email" : "tharun@gmail.com",  
  "Bloodgrp" : "B+ve",  
  "Phone" : 9360123456,  
  "DateofAppointment" : ISODate("2021-12-17T00:00:00Z")  
}  
{  
  "_id" : ObjectId("61a8610a90cafa9a1058ec1b"),  
  "PatientId" : 5,  
  "PatientName" : "Sheema",  
  "Age" : 23,  
  "Department" : "Physio",  
  "Address" : "Velapadi,vellore",  
  "Email" : "sheema@gmail.com",  
  "Bloodgrp" : "AB-ve",  
  "Phone" : 9450123456,  
  "DateofAppointment" : ISODate("2021-12-18T00:00:00Z")  
}  
>
```

➔ Patient named "Nishanth" got deleted from the database.

2.) Create EMP DB with necessary fields and perform CURD operation.

EMPLOYEE DATABASE:

>mongod.exe

```
Command Prompt - mongod.exe
Microsoft Windows [Version 6.3.9600]
(c) 2013 Microsoft Corporation. All rights reserved.

C:\Users\S.SARATH>mongod.exe
2021-11-16T10:45:34.276+0530 I CONTROL [initandlisten] MongoDB starting : pid=3408 port=27017 dbpath=C:\data\db\ 64-bit host=SRUTHI
2021-11-16T10:45:34.277+0530 I CONTROL [initandlisten] targetMinOS: Windows 7/Windows Server 2008 R2
2021-11-16T10:45:34.277+0530 I CONTROL [initandlisten] db version v3.6.23
2021-11-16T10:45:34.277+0530 I CONTROL [initandlisten] git version: d352e6a4764659e0d0350ce77279de3c1f243e5c
2021-11-16T10:45:34.277+0530 I CONTROL [initandlisten] OpenSSL version: OpenSSL 1.0.2s-fips 28 May 2019
2021-11-16T10:45:34.278+0530 I CONTROL [initandlisten] allocator: tcmalloc
2021-11-16T10:45:34.278+0530 I CONTROL [initandlisten] modules: none
2021-11-16T10:45:34.278+0530 I CONTROL [initandlisten] build environment:
2021-11-16T10:45:34.278+0530 I CONTROL [initandlisten] distmod: 2008plus-ssl
2021-11-16T10:45:34.278+0530 I CONTROL [initandlisten] distarch: x86_64
2021-11-16T10:45:34.278+0530 I CONTROL [initandlisten] target_arch: x86_64
2021-11-16T10:45:34.278+0530 I CONTROL [initandlisten] options: {}
2021-11-16T10:45:34.278+0530 I STORAGE [initandlisten] exception in initAndListen: NonExistentPath: Data directory C:\data\db\ not found. Create the missing directory or specify another path using (1) the --dbpath command line option, or (2) by adding the 'storage.dbPath' option in the configuration file., terminating
```

>mongo.exe

>show dbs;

>use employeeDb;

>db

>db.createCollection.emp;

>show collections;

```
Command Prompt - mongo.exe
Microsoft Windows [Version 6.3.9600]
(c) 2013 Microsoft Corporation. All rights reserved.

C:\Users\S.SARATH>mongo.exe
MongoDB shell version v3.6.23
connecting to: mongod://127.0.0.1:27017/?gssapiServiceName=mongod
Implicit session: session <"id": UUID("fde6992d-94dd-4fb7-8459-31cecf380dea")>
MongoDB server version: 3.6.23
Server has startup warnings:
2021-11-16T10:09:01.623+0530 I CONTROL [initandlisten]
2021-11-16T10:09:01.624+0530 I CONTROL [initandlisten] ** WARNING: Access control is not enabled for the database.
2021-11-16T10:09:01.624+0530 I CONTROL [initandlisten] ** Read and write access to data and configuration is unrestricted.
2021-11-16T10:09:01.624+0530 I CONTROL [initandlisten]
2021-11-16T10:09:01.625+0530 I CONTROL [initandlisten] ** WARNING: This server is bound to localhost
2021-11-16T10:09:01.625+0530 I CONTROL [initandlisten] ** Remote systems will be unable to connect to this server.
2021-11-16T10:09:01.625+0530 I CONTROL [initandlisten] ** Start the server with --bind_ip <address> to specify which IP
2021-11-16T10:09:01.626+0530 I CONTROL [initandlisten] ** addresses it should serve responses from, or with --bind_ip_all to
2021-11-16T10:09:01.626+0530 I CONTROL [initandlisten] ** bind to all interfaces. If this behavior is desired, start the
2021-11-16T10:09:01.627+0530 I CONTROL [initandlisten] ** server with --bind_ip 127.0.0.1 to disable this warning.
2021-11-16T10:09:01.627+0530 I CONTROL [initandlisten]
> show dbs;
admin            0.000GB
config           0.000GB
firstdb          0.000GB
local            0.000GB
myfirstexample   0.000GB
> use employeeDb;
switched to db employeeDb
> db
employeeDb
> db.createCollection.emp;
> show collections;
> db
employeeDb
```


Database Name: *employeedb*

Collection Name: *employeedb.emp*

Inserting 10 records in DB:

```
>db.employeedb.emp.insert({emp_id:1232,emp_name:"laya",age:23,dep="sales",contact:3443224343,mail:laya@gmail.com,sal:45000,year_of_joining:2013});
```

```
>db.employeedb.emp.insert({emp_id:1242,emp_name:"vidya",age:43,dep="sales",contact:353543524343,mail:vidya123@gmail.com,sal:68000,year_of_joining:2010});
```

.....

```
>db.employeedb.emp.insert({emp_id:1232,emp_name:"gops",age:48,dep="marketing",contact:6566767673,mail:gops19@gmail.com,sal:23000,year_of_joining:2020});
```

```
employeedb
> db.employeedb.emp.insert({emp_id:1232,emp_name:"laya",age:23,dep="sales",contact:3443224343,mail:"laya@gmail.com",sal:45000,year_of_joining:2013});
2021-11-26T10:16:28.308+0530 E QUERY [thread1] SyntaxError: missing : after property id @<shell>:1:64
> db.employeedb.emp.insert({emp_id:1232,emp_name:"laya",age:23,dep="sales",contact:3443224343,mail:"laya@gmail.com",sal:45000,year_of_joining:2013});
WriteResult({ "nInserted" : 1 })
> db.employeedb.emp.insert({emp_id:1242,emp_name:"vidya",age:43,dep:"production",contact:343543524343,mail:"vidya123@gmail.com",sal:68000,year_of_joining:2010});
WriteResult({ "nInserted" : 1 })
> db.employeedb.emp.insert({emp_id:1342,emp_name:"daya",age:53,dep:"marketing",contact:3333524343,mail:"daya3@gmail.com",sal:56000,year_of_joining:2015});
WriteResult({ "nInserted" : 1 })
> db.employeedb.emp.insert({emp_id:1332,emp_name:"dada",age:57,dep:"finance",contact:352444343433,mail:"dada43@gmail.com",sal:23000,year_of_joining:2001});
WriteResult({ "nInserted" : 1 })
> db.employeedb.emp.insert({emp_id:1762,emp_name:"nive",age:35,dep:"HR",contact:355776433,mail:"niveee@gmail.com",sal:46000,year_of_joining:1999});
WriteResult({ "nInserted" : 1 })
> db.employeedb.emp.insert({emp_id:1962,emp_name:"sarathu",age:65,dep:"production",contact:35588833,mail:"sarath@gmail.com",sal:89000,year_of_joining:1997});
WriteResult({ "nInserted" : 1 })
> db.employeedb.emp.insert({emp_id:1882,emp_name:"sruthi",age:35,dep:"sales",contact:366776767673,mail:"sruthih@gmail.com",sal:46000,year_of_joining:2017});
WriteResult({ "nInserted" : 1 })
> db.employeedb.emp.insert({emp_id:1862,emp_name:"nithu",age:25,dep:"HR",contact:36667673,mail:"nithu24@gmail.com",sal:70000,year_of_joining:2012});
WriteResult({ "nInserted" : 1 })
> db.employeedb.emp.insert({emp_id:1862,emp_name:"sheemu",age:42,dep:"production",contact:65465667673,mail:"sheemu4@gmail.com",sal:76000,year_of_joining:1999});
WriteResult({ "nInserted" : 1 })
> db.employeedb.emp.insert({emp_id:1862,emp_name:"gops",age:48,dep:"marketing",contact:65667673,mail:"gops19@gmail.com",sal:23000,year_of_joining:2020});
WriteResult({ "nInserted" : 1 })
>
```

Displaying records using find() command:

```
>db.employeedb.emp.find();
```

```
Command Prompt - mongo.exe
> db.employee.db.emp.find(<>);
{ "_id" : ObjectId("61a066bbdcce735276c7553d"), "emp_id" : 1232, "emp_name" : "laya", "age" : 23, "dep" : "sales", "contact" : 3443224343, "mail" : "laya@gmail.com", "sal" : 45000, "year_of_joining" : 2013 }
{ "_id" : ObjectId("61a067addcce735276c7553e"), "emp_id" : 1242, "emp_name" : "vidya", "age" : 43, "dep" : "production", "contact" : 343543524343, "mail" : "vidya123@gmail.com", "sal" : 68000, "year_of_joining" : 2010 }
{ "_id" : ObjectId("61a06810dcce735276c7553f"), "emp_id" : 1342, "emp_name" : "daya", "age" : 53, "dep" : "marketing", "contact" : 3333524343, "mail" : "daya3@gmail.com", "sal" : 56000, "year_of_joining" : 2015 }
{ "_id" : ObjectId("61a06850dcce735276c75540"), "emp_id" : 1332, "emp_name" : "dada", "age" : 57, "dep" : "finance", "contact" : 352444343433, "mail" : "dada43@gmail.com", "sal" : 23000, "year_of_joining" : 2001 }
{ "_id" : ObjectId("61a06885dcce735276c75541"), "emp_id" : 1762, "emp_name" : "nive", "age" : 35, "dep" : "HR", "contact" : 355776433, "mail" : "niveee@gmail.com", "sal" : 46000, "year_of_joining" : 1999 }
{ "_id" : ObjectId("61a068ebdcce735276c75542"), "emp_id" : 1962, "emp_name" : "sarathu", "age" : 65, "dep" : "production", "contact" : 35588833, "mail" : "sarathu@gmail.com", "sal" : 89000, "year_of_joining" : 1997 }
{ "_id" : ObjectId("61a06921dcce735276c75543"), "emp_id" : 1882, "emp_name" : "sruthi", "age" : 35, "dep" : "sales", "contact" : 366776767673, "mail" : "sruthi@gmail.com", "sal" : 46000, "year_of_joining" : 2017 }
{ "_id" : ObjectId("61a06995dcce735276c75544"), "emp_id" : 1862, "emp_name" : "nithu", "age" : 25, "dep" : "HR", "contact" : 36667673, "mail" : "nithu24@gmail.com", "sal" : 70000, "year_of_joining" : 2012 }
{ "_id" : ObjectId("61a069f5dcce735276c75545"), "emp_id" : 1862, "emp_name" : "sheemu", "age" : 42, "dep" : "production", "contact" : 65465667673, "mail" : "sheemu4@gmail.com", "sal" : 76000, "year_of_joining" : 1999 }
{ "_id" : ObjectId("61a06a72dcce735276c75546"), "emp_id" : 1862, "emp_name" : "gops", "age" : 48, "dep" : "marketing", "contact" : 65667673, "mail" : "gops19@gmail.com", "sal" : 23000, "year_of_joining" : 2020 }
>
```

Displaying records using find() command along with pretty():

`>db.employee.db.emp.find().pretty();`

```
Command Prompt - mongo.exe
> db.employee.db.emp.find(<>).pretty(<>);
{
  "_id" : ObjectId("61a066bbdcce735276c7553d"),
  "emp_id" : 1232,
  "emp_name" : "laya",
  "age" : 23,
  "dep" : "sales",
  "contact" : 3443224343,
  "mail" : "laya@gmail.com",
  "sal" : 45000,
  "year_of_joining" : 2013
}
{
  "_id" : ObjectId("61a067addcce735276c7553e"),
  "emp_id" : 1242,
  "emp_name" : "vidya",
  "age" : 43,
  "dep" : "production",
  "contact" : 343543524343,
  "mail" : "vidya123@gmail.com",
  "sal" : 68000,
  "year_of_joining" : 2010
}
{
  "_id" : ObjectId("61a06810dcce735276c7553f"),
  "emp_id" : 1342,
  "emp_name" : "daya",
  "age" : 53,
  "dep" : "marketing",
  "contact" : 3333524343,
  "mail" : "daya3@gmail.com",
  "sal" : 56000,
  "year_of_joining" : 2015
}
{
  "_id" : ObjectId("61a06850dcce735276c75540"),
  "emp_id" : 1332,
  "emp_name" : "dada",
  "age" : 57,
  "dep" : "finance",
  "contact" : 352444343433,
  "mail" : "dada43@gmail.com",
  "sal" : 23000,
  "year_of_joining" : 2001
}
{
  "_id" : ObjectId("61a06885dcce735276c75541"),
  "emp_id" : 1762,
  "emp_name" : "nive",
  "age" : 35,
  "dep" : "HR",
  "contact" : 355776433,
  "mail" : "niveee@gmail.com",
  "sal" : 46000,
  "year_of_joining" : 1999
}
{
  "_id" : ObjectId("61a068ebdcce735276c75542"),
  "emp_id" : 1962,
  "emp_name" : "sarathu",
  "age" : 65,

```

```
Command Prompt - mongo.exe
{"contact": 355776433,
"mail": "niveee@gmail.com",
"sal": 46000,
"year_of_joining": 1999
}
{
  "_id": ObjectId("61a068ebdcce735276c75542"),
  "emp_id": 1962,
  "emp_name": "sarathu",
  "age": 65,
  "dep": "production",
  "contact": 35588833,
  "mail": "sarath@gmail.com",
  "sal": 89000,
  "year_of_joining": 1997
}
{
  "_id": ObjectId("61a06921dcce735276c75543"),
  "emp_id": 1882,
  "emp_name": "sruthi",
  "age": 35,
  "dep": "sales",
  "contact": 366776767673,
  "mail": "sruthih@gmail.com",
  "sal": 46000,
  "year_of_joining": 2017
}
{
  "_id": ObjectId("61a06995dcce735276c75544"),
  "emp_id": 1862,
  "emp_name": "nithu",
  "age": 25,
  "dep": "HR",
  "contact": 36667673,
  "mail": "nithu24@gmail.com",
  "sal": 70000,
  "year_of_joining": 2012
}
{
  "_id": ObjectId("61a069f5dcce735276c75545"),
  "emp_id": 1862,
  "emp_name": "sheemu",
  "age": 42,
  "dep": "production",
  "contact": 65465667673,
  "mail": "sheemu4@gmail.com",
  "sal": 76000,
  "year_of_joining": 1999
}
{
  "_id": ObjectId("61a06a72dcce735276c75546"),
  "emp_id": 1862,
  "emp_name": "gops",
  "age": 48,
  "dep": "marketing",
  "contact": 65667673,
  "mail": "gops19@gmail.com",
  "sal": 23000,
  "year_of_joining": 2020
}
```

Details of employee joined after 2000:

```
>db.employee.db.emp.find({year_of_joining:({$gt:2000})}).pretty();
```

```

> db.employee.db.emp.find({year_of_joining:{>2000}}).pretty();
{
  "_id" : ObjectId("61a066bbdcce735276c7553d"),
  "emp_id" : 1232,
  "emp_name" : "laya",
  "age" : 23,
  "dep" : "sales",
  "contact" : 3443224343,
  "mail" : "laya@gmail.com",
  "sal" : 45000,
  "year_of_joining" : 2013
}
{
  "_id" : ObjectId("61a067addcce735276c7553e"),
  "emp_id" : 1242,
  "emp_name" : "vidya",
  "age" : 43,
  "dep" : "production",
  "contact" : 343543524343,
  "mail" : "vidya123@gmail.com",
  "sal" : 68000,
  "year_of_joining" : 2010
}
{
  "_id" : ObjectId("61a06810dcce735276c7553f"),
  "emp_id" : 1342,
  "emp_name" : "daya",
  "age" : 53,
  "dep" : "marketing",
  "contact" : 3333524343,
  "mail" : "daya3@gmail.com",
  "sal" : 56000,
  "year_of_joining" : 2015
}
{
  "_id" : ObjectId("61a06850dcce735276c75540"),
  "emp_id" : 1332,
  "emp_name" : "dada",
  "age" : 57,
  "dep" : "finance",
  "contact" : 352444343433,
  "mail" : "dada43@gmail.com",
  "sal" : 23000,
  "year_of_joining" : 2001
}
{
  "_id" : ObjectId("61a06921dcce735276c75543"),
  "emp_id" : 1882,
  "emp_name" : "sruthi",
  "age" : 35,
  "dep" : "sales",
  "contact" : 366776767673,
  "mail" : "sruthih@gmail.com",
  "sal" : 46000,
  "year_of_joining" : 2017
}
{
  "_id" : ObjectId("61a06995dcce735276c75544"),
  "emp_id" : 1862,
  "emp_name" : "nithu",
  "age" : 25,
  "dep" : "HR",
  "contact" : 36667673,
  "mail" : "nithu24@gmail.com",
  "sal" : 70000,
  "year_of_joining" : 2012
}
{
  "_id" : ObjectId("61a06a72dcce735276c75546"),
  "emp_id" : 1862,
  "emp_name" : "gops",
  "age" : 48,
  "dep" : "marketing",
  "contact" : 65667673,
  "mail" : "gops19@gmail.com",
  "sal" : 23000,
  "year_of_joining" : 2020
}

```

Details of employee in production team:

```

> db.employee.db.emp.find({dep:"production"}).pretty();

```

```

> db.employee.db.emp.find(<<dep:"production">>).pretty();
{
  "_id" : ObjectId("61a067addcce735276c7553e"),
  "emp_id" : 1242,
  "emp_name" : "vidya",
  "age" : 43,
  "dep" : "production",
  "contact" : 343543524343,
  "mail" : "vidya123@gmail.com",
  "sal" : 68000,
  "year_of_joining" : 2010
}
{
  "_id" : ObjectId("61a068ebdcce735276c75542"),
  "emp_id" : 1962,
  "emp_name" : "sarathu",
  "age" : 65,
  "dep" : "production",
  "contact" : 35588833,
  "mail" : "sarath@gmail.com",
  "sal" : 89000,
  "year_of_joining" : 1997
}
{
  "_id" : ObjectId("61a069f5dcce735276c75545"),
  "emp_id" : 1862,
  "emp_name" : "sheemu",
  "age" : 42,
  "dep" : "production",
  "contact" : 65465667673,
  "mail" : "sheemu4@gmail.com",
  "sal" : 76000,
  "year_of_joining" : 1999
}

```

Details of employee with specific empid:

```
>db.employee.db.emp.find({emp_id:1242}).pretty();
```

```

> db.employee.db.emp.find(<<emp_id:1242>>).pretty();
{
  "_id" : ObjectId("61a067addcce735276c7553e"),
  "emp_id" : 1242,
  "emp_name" : "vidya",
  "age" : 43,
  "dep" : "production",
  "contact" : 343543524343,
  "mail" : "vidya123@gmail.com",
  "sal" : 68000,
  "year_of_joining" : 2010
}

```

Details of employee salary >50000:

```
>db.employee.db.emp.find({sal:({$gt:50000})}).pretty();
```

```

> db.employee.db.emp.find(<<sal:<$gt:50000>>>).pretty();
{
  "_id" : ObjectId<"61a067addcce735276c7553e">,
  "emp_id" : 1242,
  "emp_name" : "vidya",
  "age" : 43,
  "dep" : "production",
  "contact" : 343543524343,
  "mail" : "vidya123@gmail.com",
  "sal" : 68000,
  "year_of_joining" : 2010
}
{
  "_id" : ObjectId<"61a06810dcce735276c7553f">,
  "emp_id" : 1342,
  "emp_name" : "daya",
  "age" : 53,
  "dep" : "marketing",
  "contact" : 3333524343,
  "mail" : "daya3@gmail.com",
  "sal" : 56000,
  "year_of_joining" : 2015
}
{
  "_id" : ObjectId<"61a068ebdcce735276c75542">,
  "emp_id" : 1962,
  "emp_name" : "sarathu",
  "age" : 65,
  "dep" : "production",
  "contact" : 35588833,
  "mail" : "sarath@gmail.com",
  "sal" : 89000,
  "year_of_joining" : 1997
}
{
  "_id" : ObjectId<"61a06995dcce735276c75544">,
  "emp_id" : 1862,
  "emp_name" : "nithu",
  "age" : 25,
  "dep" : "HR",
  "contact" : 36667673,
  "mail" : "nithu24@gmail.com",
  "sal" : 70000,
  "year_of_joining" : 2012
}
{
  "_id" : ObjectId<"61a069f5dcce735276c75545">,
  "emp_id" : 1862,
  "emp_name" : "sheemu",
  "age" : 42,
  "dep" : "production",
  "contact" : 65465667673,
  "mail" : "sheemu4@gmail.com",
  "sal" : 76000,
  "year_of_joining" : 1999
}

```

Employee details in sorted order:

```

> db.employee.db.emp.find().sort({KEY:1}).pretty();

```

```

> db.employee.find().sort(<<KEY:1>>).pretty();
{
  "_id" : ObjectId("61a066bbdcce735276c7553d"),
  "emp_id" : 1232,
  "emp_name" : "laya",
  "age" : 23,
  "dep" : "sales",
  "contact" : 3443224343,
  "mail" : "laya@gmail.com",
  "sal" : 45000,
  "year_of_joining" : 2013
}

{
  "_id" : ObjectId("61a067addcce735276c7553e"),
  "emp_id" : 1242,
  "emp_name" : "vidya",
  "age" : 43,
  "dep" : "production",
  "contact" : 343543524343,
  "mail" : "vidya123@gmail.com",
  "sal" : 68000,
  "year_of_joining" : 2010
}

{
  "_id" : ObjectId("61a06810dcce735276c7553f"),
  "emp_id" : 1342,
  "emp_name" : "daya",
  "age" : 53,
  "dep" : "marketing",
  "contact" : 3333524343,
  "mail" : "daya3@gmail.com",
  "sal" : 56000,
  "year_of_joining" : 2015
}

{
  "_id" : ObjectId("61a06850dcce735276c75540"),
  "emp_id" : 1332,
  "emp_name" : "dada",
  "age" : 57,
  "dep" : "finance",
  "contact" : 352444343433,
  "mail" : "dada43@gmail.com",
  "sal" : 23000,
  "year_of_joining" : 2001
}

{
  "_id" : ObjectId("61a06885dcce735276c75541"),
  "emp_id" : 1762,
  "emp_name" : "nive",
  "age" : 35,
  "dep" : "HR",
  "contact" : 355776433,
  "mail" : "niveee@gmail.com",
  "sal" : 46000,
  "year_of_joining" : 1999
}

{
  "_id" : ObjectId("61a068ebdcce735276c75542"),
  "emp_id" : 1962,
  "emp_name" : "sarathu",
  "age" : 65,
  "dep" : "production",
  "contact" : 35588833,
  "mail" : "sarath@gmail.com",
  "sal" : 89000,
  "year_of_joining" : 1997
}

{
  "_id" : ObjectId("61a06921dcce735276c75543"),
  "emp_id" : 1882,
  "emp_name" : "sruthi",
  "age" : 35,
  "dep" : "sales",
  "contact" : 366776767673,
  "mail" : "sruthih@gmail.com",
  "sal" : 46000,
  "year_of_joining" : 2017
}

{
  "_id" : ObjectId("61a06995dcce735276c75544"),
  "emp_id" : 1862,
  "emp_name" : "nithu",
  "age" : 25,
  "dep" : "HR",
  "contact" : 36667673,
  "mail" : "nithu24@gmail.com",
  "sal" : 70000,
  "year_of_joining" : 2012
}

{
  "_id" : ObjectId("61a069f5dcce735276c75545"),
  "emp_id" : 1862,
  "emp_name" : "sheemu",
  "age" : 42,
  "dep" : "production",
  "contact" : 65465667673,
  "mail" : "sheemu4@gmail.com",
  "sal" : 76000,
  "year_of_joining" : 1999
}

{
  "_id" : ObjectId("61a06a72dcce735276c75546"),
  "emp_id" : 1862,
  "emp_name" : "gops",
  "age" : 48,
  "dep" : "marketing",
  "contact" : 65667673,
  "mail" : "gops19@gmail.com",
  "sal" : 23000,
  "year_of_joining" : 2020
}

```


Sorting in Descending order:

>db.employee.db.emp.find().sort({KEY:-1}).pretty();

Select Command Prompt - mongo.exe

```
> db.employee.db.emp.find().sort({KEY:-1}).pretty();
{
  "_id" : ObjectId("61a066bbdcce735276c7553d"),
  "emp_id" : 1232,
  "emp_name" : "laya",
  "age" : 23,
  "dep" : "sales",
  "contact" : 3443224343,
  "mail" : "laya@gmail.com",
  "sal" : 45000,
  "year_of_joining" : 2013
}

{
  "_id" : ObjectId("61a067addcce735276c7553e"),
  "emp_id" : 1242,
  "emp_name" : "vidya",
  "age" : 43,
  "dep" : "production",
  "contact" : 343543524343,
  "mail" : "vidya123@gmail.com",
  "sal" : 68000,
  "year_of_joining" : 2010
}

{
  "_id" : ObjectId("61a06810dcce735276c7553f"),
  "emp_id" : 1342,
  "emp_name" : "daya",
  "age" : 53,
  "dep" : "marketing",
  "contact" : 3333524343,
  "mail" : "daya3@gmail.com",
  "sal" : 56000,
  "year_of_joining" : 2015
}

{
  "_id" : ObjectId("61a06850dcce735276c75540"),
  "emp_id" : 1332,
  "emp_name" : "dada",
  "age" : 57,
  "dep" : "finance",
  "contact" : 352444343433,
  "mail" : "dada43@gmail.com",
  "sal" : 23000,
  "year_of_joining" : 2001
}

{
  "_id" : ObjectId("61a06885dcce735276c75541"),
  "emp_id" : 1762,
  "emp_name" : "nive",
  "age" : 35,
  "dep" : "HR",
  "contact" : 355776433,
  "mail" : "niveee@gmail.com",
  "sal" : 46000,
  "year_of_joining" : 1999
}

{
  "_id" : ObjectId("61a068ebdcce735276c75542"),
  "emp_id" : 1962,
  "emp_name" : "sarathu",
  "age" : 65,
  "dep" : "production",
  "contact" : 35588833,
  "mail" : "sarath@gmail.com",
  "sal" : 89000,
  "year_of_joining" : 1997
}

{
  "_id" : ObjectId("61a06921dcce735276c75543"),
  "emp_id" : 1882,
  "emp_name" : "sruthi",
  "age" : 35,
  "dep" : "sales",
  "contact" : 366776767673,
  "mail" : "sruthih@gmail.com",
  "sal" : 46000,
  "year_of_joining" : 2017
}

{
  "_id" : ObjectId("61a06995dcce735276c75544"),
  "emp_id" : 1862,
  "emp_name" : "nithu",
  "age" : 25,
  "dep" : "HR",
  "contact" : 36667673,
  "mail" : "nithu24@gmail.com",
  "sal" : 70000,
  "year_of_joining" : 2012
}

{
  "_id" : ObjectId("61a069f5dcce735276c75545"),
  "emp_id" : 1862,
  "emp_name" : "sheemu",
  "age" : 42,
  "dep" : "production",
  "contact" : 65465667673,
  "mail" : "sheemu4@gmail.com",
  "sal" : 76000,
  "year_of_joining" : 1999
}

{
  "_id" : ObjectId("61a06a72dcce735276c75546"),
  "emp_id" : 1862,
  "emp_name" : "gops",
  "age" : 48,
  "dep" : "marketing",
  "contact" : 65667673,
  "mail" : "gops19@gmail.com",
  "sal" : 23000,
  "year_of_joining" : 2020
}
```

Employee details in sorted order based on salary:

>db.employeeedb.emp.find().sort({sal:-1}).pretty();

```
Command Prompt - mongo.exe
> db.employeeedb.emp.find().sort({sal:-1}).pretty();
{
  "_id" : ObjectId("61a068ebdcce735276c75542"),
  "emp_id" : 1962,
  "emp_name" : "sarathu",
  "age" : 65,
  "dep" : "production",
  "contact" : 35588833,
  "mail" : "sarath@gmail.com",
  "sal" : 89000,
  "year_of_joining" : 1997
}
{
  "_id" : ObjectId("61a069f5dcce735276c75545"),
  "emp_id" : 1862,
  "emp_name" : "sheemu",
  "age" : 42,
  "dep" : "production",
  "contact" : 6546567673,
  "mail" : "sheemu4@gmail.com",
  "sal" : 76000,
  "year_of_joining" : 1999
}
{
  "_id" : ObjectId("61a06995dcce735276c75544"),
  "emp_id" : 1862,
  "emp_name" : "nithu",
  "age" : 25,
  "dep" : "HR",
  "contact" : 36667673,
  "mail" : "nithu24@gmail.com",
  "sal" : 70000,
  "year_of_joining" : 2012
}
{
  "_id" : ObjectId("61a067addcce735276c7553e"),
  "emp_id" : 1242,
  "emp_name" : "vidya",
  "age" : 43,
  "dep" : "production",
  "contact" : 343543524343,
  "mail" : "vidya123@gmail.com",
  "sal" : 68000,
  "year_of_joining" : 2010
}
{
  "_id" : ObjectId("61a06810dcce735276c7553f"),
  "emp_id" : 1342,
  "emp_name" : "daya",
  "age" : 53,
  "dep" : "marketing",
  "contact" : 3333524343,
  "mail" : "daya3@gmail.com",
  "sal" : 56000,
  "year_of_joining" : 2015
}
{
  "_id" : ObjectId("61a06885dcce735276c75541"),
  "emp_id" : 1762,
  "emp_name" : "nive",
  "age" : 35,
  "dep" : "HR",
  "contact" : 355776433,
  "mail" : "niveeee@gmail.com",
  "sal" : 46000,
  "year_of_joining" : 1999
}
{
  "_id" : ObjectId("61a06921dcce735276c75543"),
  "emp_id" : 1882,
  "emp_name" : "sruthi",
  "age" : 35,
  "dep" : "sales",
  "contact" : 366776767673,
  "mail" : "sruthih@gmail.com",
  "sal" : 46000,
  "year_of_joining" : 2017
}
{
  "_id" : ObjectId("61a066bbdcce735276c7553d"),
  "emp_id" : 1232,
  "emp_name" : "laya",
  "age" : 23,
  "dep" : "sales",
  "contact" : 3443224343,
  "mail" : "laya@gmail.com",
  "sal" : 45000,
  "year_of_joining" : 2013
}
{
  "_id" : ObjectId("61a06850dcce735276c75540"),
  "emp_id" : 1332,
  "emp_name" : "dada",
  "age" : 52,
  "dep" : "finance",
  "contact" : 352444343433,
  "mail" : "dada43@gmail.com",
  "sal" : 23000,
  "year_of_joining" : 2001
}
{
  "_id" : ObjectId("61a06a72dcce735276c75546"),
  "emp_id" : 1862,
  "emp_name" : "gops",
  "age" : 48,
  "dep" : "marketing",
  "contact" : 65667673,
  "mail" : "gops19@gmail.com",
  "sal" : 23000,
  "year_of_joining" : 2020
}
```

Delete employee details with specific id:

```
>db.employeeedb.emp.remove({emp_id:1332});
```

```
>db.employeeedb.emp.find().pretty();
```

```
Command Prompt - mongo.exe
> db.employeeedb.emp.remove({emp_id:1332});
WriteResult<< "nRemoved" : 1 >>
> db.employeeedb.emp.find({emp_id:1332}).pretty();
> db.employeeedb.emp.find().pretty();
{
  "_id" : ObjectId("61a066bbdcce735276c7553d"),
  "emp_id" : 1232,
  "emp_name" : "laya",
  "age" : 23,
  "dep" : "sales",
  "contact" : 3443224343,
  "mail" : "laya@gmail.com",
  "sal" : 45000,
  "year_of_joining" : 2013
}

{
  "_id" : ObjectId("61a067addcce735276c7553e"),
  "emp_id" : 1242,
  "emp_name" : "vidya",
  "age" : 43,
  "dep" : "production",
  "contact" : 343543524343,
  "mail" : "vidya123@gmail.com",
  "sal" : 68000,
  "year_of_joining" : 2010
}

{
  "_id" : ObjectId("61a06810dcce735276c7553f"),
  "emp_id" : 1342,
  "emp_name" : "daya",
  "age" : 53,
  "dep" : "marketing",
  "contact" : 3333524343,
  "mail" : "daya3@gmail.com",
  "sal" : 56000,
  "year_of_joining" : 2015
}

{
  "_id" : ObjectId("61a06885dcce735276c75541"),
  "emp_id" : 1762,
  "emp_name" : "nive",
  "age" : 35,
  "dep" : "HR",
  "contact" : 355776433,
  "mail" : "niveeee@gmail.com",
  "sal" : 46000,
  "year_of_joining" : 1999
}

{
  "_id" : ObjectId("61a068ebdcce735276c75542"),
  "emp_id" : 1962,
  "emp_name" : "sarathu",
  "age" : 65,
  "dep" : "production",
  "contact" : 35588833,
  "mail" : "sarath@gmail.com",
  "sal" : 89000,
  "year_of_joining" : 1997
}

{
  "_id" : ObjectId("61a06921dcce735276c75543"),
  "emp_id" : 1882,
  "emp_name" : "sruthi",
  "age" : 35,
  "dep" : "sales",
  "contact" : 366776767673,
  "mail" : "sruthih@gmail.com",
  "sal" : 46000,
  "year_of_joining" : 2017
}

{
  "_id" : ObjectId("61a06995dcce735276c75544"),
  "emp_id" : 1862,
  "emp_name" : "nithu",
  "age" : 25,
  "dep" : "HR",
  "contact" : 36667673,
  "mail" : "nithu24@gmail.com",
  "sal" : 70000,
  "year_of_joining" : 2012
}

{
  "_id" : ObjectId("61a069f5dcce735276c75545"),
  "emp_id" : 1862,
  "emp_name" : "sheemu",
  "age" : 42,
  "dep" : "production",
  "contact" : 65465667673,
  "mail" : "sheemu4@gmail.com",
  "sal" : 76000,
  "year_of_joining" : 1999
}

{
  "_id" : ObjectId("61a06a72dcce735276c75546"),
  "emp_id" : 1862,
  "emp_name" : "gops",
  "age" : 48,
  "dep" : "marketing",
  "contact" : 65667673,
  "mail" : "gops19@gmail.com",
  "sal" : 23000,
  "year_of_joining" : 2020
}
```

3.) Create a Express js form to receive data (emp data) and update in to db.

App.js:

```
const { MongoClient } = require('mongodb');
```

```
// or as an es module:
```

```
// import { MongoClient } from 'mongodb'
```

```
// Connection URL
```

```
const url = 'mongodb://localhost:27017';
```

```
const client = new MongoClient(url);
```

```
// Database Name
```

```
const dbName = 'employees';
```

```
async function main() {
```

```
  // Use connect method to connect to the server
```

```
  await client.connect();
```

```
  console.log('Connected successfully to server');
```

```
  const db = client.db(dbName);
```

```
  const collection = db.collection('employee_details');
```

```
  const insertResult = await
```

```
  collection.insertMany([ {empid:101,empname:"zainab",dept:"development",doj:"2010-06-
```

```
05T08:00:00.000",salary
```

```
:87000,age:30,num:932323326786,mail:"zainab@gmail.com"}, {
```

```
empid:102,empname:"
```

rajan",dept:"production",doj:"1998-09-16T08:00:00.000",salary

:59000,age:56,num:97899887786,mail:"raja@gmail.com" }, {

empid:103,empname:"anima",dept:"production",doj:"2001-06-14T08:00:00.000",salary

:78000,age:87,num:9765496886,mail:"anima@gmail.com" },

{empid:104,empname:"nithu

ma",dept:"testing",doj:"2008-03-16T08:00:00.000",salary

:87000,age:24,num:97886896786,mail:"nithuma4@gmail.com"},

{empid:105,empname:"gops",dept:"production",doj:"2003-06-10T08:00:00.000",salary

:67000,age:43,num:966756786,mail:"gops@gmail.com"},

{empid:106,empname:"payya",dept:"development",doj:"2006-07-15T08:00:00.000",salary

:89000,age:37,num:97888778786,mail:"payya@gmail.com"},

{empid:107,empname:"rithikl",dept:"production",doj:"1995-06-10T08:00:00.000",salary

```
:78000,age:35,num:9443346786,mail:"rithikl@gmail.com"},

{empid:108,empname:"hari",dept:"development",doj:"2010-06-
11T08:00:00.000",salary

:70000,age:27,num:97889876656,mail:"hariii@gmail.com"},

{empid:109,empname:"soundar",dept:"production",doj:"2014-06-
16T08:00:00.000",salary

:80000,age:33,num:97886221323,mail:"soundar@gmail.com"},

{empid:110,empname:"saii",dept:"development",doj:"1997-06-
10T08:00:00.000",salary

:35000,age:35,num:983373786,mail:"saiii@gmail.com"}]);

console.log('Inserted documents =>', insertResult)

return 'done.';
}

main()
.then(console.log)
.catch(console.error)
.finally(() => client.close());

;
```

```
Command Prompt
Microsoft Windows [Version 6.3.9600]
(c) 2013 Microsoft Corporation. All rights reserved.

C:\Users\S.SARATH>cd desktop
C:\Users\S.SARATH\Desktop>cd sem 5
C:\Users\S.SARATH\Desktop\sem 5>cd adc_web_tech
C:\Users\S.SARATH\Desktop\sem 5\adc_web_tech>node app.js
Connected successfully to server
Inserted documents => {
  acknowledged: true,
  insertedCount: 10,
  insertedIds: {
    '0': new ObjectId("61a86b533894fb59881744ef"),
    '1': new ObjectId("61a86b533894fb59881744f0"),
    '2': new ObjectId("61a86b533894fb59881744f1"),
    '3': new ObjectId("61a86b533894fb59881744f2"),
    '4': new ObjectId("61a86b533894fb59881744f3"),
    '5': new ObjectId("61a86b533894fb59881744f4"),
    '6': new ObjectId("61a86b533894fb59881744f5"),
    '7': new ObjectId("61a86b533894fb59881744f6"),
    '8': new ObjectId("61a86b533894fb59881744f7"),
    '9': new ObjectId("61a86b533894fb59881744f8")
  }
}
done.

C:\Users\S.SARATH\Desktop\sem 5\adc_web_tech>
```

```
> show dbs;
PatientDetails  0.000GB
admin            0.000GB
config          0.000GB
employeeedb     0.000GB
employees       0.000GB
firstdb         0.000GB
local           0.000GB
myfirstexample  0.000GB
patientdb       0.000GB
> use employees;
switched to db employees
> db.employee_details.find(<>).pretty(<>)
{
  "_id" : ObjectId("61a86b533894fb59881744ef"),
  "empid" : 101,
  "empname" : "zainab",
  "dept" : "development",
  "doj" : "2010-06-05T08:00:00.000",
  "salary" : 87000,
  "age" : 30,
  "num" : 93232326786,
  "mail" : "zainab@gmail.com"
}
{
  "_id" : ObjectId("61a86b533894fb59881744f0"),
  "empid" : 102,
  "empname" : "rajan",
  "dept" : "production",
  "doj" : "1998-09-16T08:00:00.000",
  "salary" : 59000,
  "age" : 56,
  "num" : 97899887786,
  "mail" : "raja@gmail.com"
}
{
  "_id" : ObjectId("61a86b533894fb59881744f1"),
  "empid" : 103,
  "empname" : "anima",
  "dept" : "production",
  "doj" : "2001-06-14T08:00:00.000",
  "salary" : 78000,
  "age" : 87,
  "num" : 9765496886,
  "mail" : "anima@gmail.com"
}
{
  "_id" : ObjectId("61a86b533894fb59881744f2"),
  "empid" : 104,
  "empname" : "nithu ma",
  "dept" : "testing",
  "doj" : "2008-03-16T08:00:00.000",
  "salary" : 87000,
  "age" : 24,
  "num" : 97886896786,
  "mail" : "nithuma4@gmail.com"
}
```



```
<
  "_id" : ObjectId<"61a86b533894fb59881744f3">,
  "empid" : 105,
  "empname" : "gops",
  "dept" : "production",
  "doj" : "2003-06-10T08:00:00.000",
  "salary" : 67000,
  "age" : 43,
  "num" : 966756786,
  "mail" : "gops@gmail.com"
>
```

```
<
  "_id" : ObjectId<"61a86b533894fb59881744f4">,
  "empid" : 106,
  "empname" : "payya",
  "dept" : "development",
  "doj" : "2006-07-15T08:00:00.000",
  "salary" : 89000,
  "age" : 37,
  "num" : 97888778786,
  "mail" : "payya@gmail.com"
>
```

```
<
  "_id" : ObjectId<"61a86b533894fb59881744f5">,
  "empid" : 107,
  "empname" : "rithik1",
  "dept" : "production",
  "doj" : "1995-06-10T08:00:00.000",
  "salary" : 78000,
  "age" : 35,
  "num" : 9443346786,
  "mail" : "rithik1@gmail.com"
>
```

```
<
  "_id" : ObjectId<"61a86b533894fb59881744f6">,
  "empid" : 108,
  "empname" : "hari",
  "dept" : "development",
  "doj" : "2010-06-11T08:00:00.000",
  "salary" : 70000,
  "age" : 27,
  "num" : 97889876656,
  "mail" : "hariii@gmail.com"
>
```

```
<
  "_id" : ObjectId<"61a86b533894fb59881744f7">,
  "empid" : 109,
  "empname" : "soundar",
  "dept" : "production",
  "doj" : "2014-06-16T08:00:00.000",
  "salary" : 80000,
  "age" : 33,
  "num" : 97886221323,
  "mail" : "soundar@gmail.com"
>
```

```
<
  "_id" : ObjectId<"61a86b533894fb59881744f8">,
  "empid" : 110,
  "empname" : "saii",
  "dept" : "development",
  "doj" : "1997-06-10T08:00:00.000",
  "salary" : 35000,
  "age" : 35,
  "num" : 983373786,
  "mail" : "saiiii@gmail.com"
>
```

4.) Create a node js program to illustrate get and Post method request.

GET METHOD:

Server3.js:

```
var express = require('express');
```

```
var app = express();
```

```
app.use(express.static('public'));

app.get('/pat.html', function (req, res) {

    res.sendFile( __dirname + "/" + "pat.html" );

})
```

```
app.get('/process_get', function (req, res) {

    // Prepare output in JSON format

    response = {

        first_name:req.query.first_name,

        last_name:req.query.last_name,

        regNo:req.query.regNo,

        sex:req.query.sex,

        dob:req.query.dob,


        mail:req.query.mail,

        year:req.query.year,

        Course:req.query.Course,

        Work:req.query.Work

    };

    console.log(response);

    res.end(JSON.stringify(response));

})
```

```
var server = app.listen(8081, function () {

    var host = server.address().address
```

```
var port = server.address().port

console.log("Example app listening at http://%s:%s", host, port)

})
```

Pat.html:

```
<html>

<head>

  <title>

    HTML forms

  </title>

<style>

body {

  background-color:rgba(128, 128, 128, 0.459);

  font-size: 20px;

}

h1 {

  color: Black;

  font-size: 60px;

  text-align: center;

}

p {color: red;}

table,td{

  font-size: 20px;

  padding: 15px;
```

```

}

table{

    background-color: white;

    border: 0px solid black;

}

td{

    /*border-spacing: 15px;*/

    border: 0px solid black;

    font-size: 30px;

}

tr:hover {background-color: rgba(243, 135, 211, 0.521);}

tr:nth-child(even) {background-color: #93ccec;}

```

```

</style>

```

```

</head>

```

```

<body >

```

```

<h1>

```

```

    PAT-Registration Form</h1>

```

```

<center>

```

```

<form action = "http://127.0.0.1:8081/process_get" method = "GET">

```

```

    <table style="width:55%;">

```

```

        <tr>

```

```

            <td><b>First Name:</b><br>

```

`<input type="text" placeholder="Enter First Name"`

`name="first_name">`

`</td>`

`<td>Last Name:
`

`<input type="text" placeholder="Enter Last Name"`

`name="last_name">`

`</td>`

`</tr>`

`<tr>`

`<td colspan="2">`

`Reg No.:
`

`<input type="text" placeholder="Enter Reg No"`

`name="regNo">`

`</td>`

`</tr>`

`<tr>`

`<td colspan="2">`

`Sex
`

`<input type="radio" name="sex">Male
`

`<input type="radio" name="sex">Female`

`</td>`

`</tr>`

<tr>

<td colspan="2">

Date Of Birth

<input type="date" name="dob">

</td>

</tr>

<tr>

<td colspan="2">

Email address:

<input type="email" placeholder="Enter Email"

name="mail">

</td>

</tr>

<tr>

<td colspan="2">

Year of Graduation

<select name="year">

<option value="2021">2021</option>

<option value="2022" >2022</option>

<option value="2023" selected>2023</option>

<option value="2024">2024</option>

<option value="2025">2025</option>

</select>

```

        </td>

</tr>

<tr>

<td colspan="2">

    <b>Select your Course</b><br>

    <select name="Course">

        <option value="Btech CSE">Btech CSE</option>

        <option value="Int Mtech MID" selected>Int Mtech MID</option>

        <option value="Int Mtech SE">Int Mtech SE</option>

        <option value="Btech ECE">Btech ECE</option>

        <option value="Btech EEE">Btech EEE</option>

    </select>

</td>

</tr>

<tr>

<td colspan="2">

    <b>Any work Experience</b><br>

    <input type="checkbox" name="Work">Yes<br>

    <input type="checkbox" name="Work">No

</td>

</tr>

<tr>

<td colspan="2">

    <input type="submit" value="Submit">

</td>

```


</tr>

</table>

</center>

</form>

</body>

</html>

```
Command Prompt - node server3.js
>
C:\Users\S.SARATH\Desktop\sem 5\adc_web_tech\EXPRESS>node server3.js
Example app listening at http://:::8081
{
  first_name: 'SRUTHI',
  last_name: 'RAJAN',
  regNo: '19MID0053',
  sex: 'on',
  dob: undefined,
  mail: 'sruthir048@gmail.com',
  year: '2023',
  Course: 'Int Mtech MID',
  Work: 'on'
}
```

<http://127.0.0.1:8081/pat.html>

PAT-Registration Form

First Name:

Last Name:

Reg No.:

Sex
☐ Male
☒ Female

Date Of Birth

Email address:

Year of Graduation

Select your Course

Any work Experience
☒ Yes
☐ No

http://127.0.0.1:8081/process_get?first_name=sruthi&last_name=s®No=19MID0053&sex=on&mail=sruthi.s2019a%40vitstudent.ac.in&year=2024&Course=Int+Mtech+MID&Work=on

`{"first_name":"SRUTHI","last_name":"RAJAN","regNo":"19MID0053","sex":"on","mail":"sruthir048@gmail.com","year":"2023","Course":"Int Mtech MID","Work":"on"}`

POST METHOD:

Post.js:

```
var express = require('express');
var bodyParser = require('body-parser');

// Create application/x-www-form-urlencoded parser
var urlencodedParser = bodyParser.urlencoded({ extended: false })

app.use(express.static('public'));
app.get('/pat.html', function (req, res) {
  res.sendFile( __dirname + "/" + "pat.html" );
})

app.post('/process_post', urlencodedParser, function (req, res) {
  // Prepare output in JSON format
  response = {
    first_name:req.body.first_name,
    last_name:req.body.last_name,
    regNo:req.body.regNo,
    sex:req.body.sex,
    dob:req.bodydob,
    mail:req.body.mail,
    year:req.body.year,
    Course:req.body.Course,
    Work:req.body.Work
  };
  console.log(response);
  res.end(JSON.stringify(response));
```

```
})
```

```
var server = app.listen(8081, function () {
```

```
    var host = server.address().address
```

```
    var port = server.address().port
```

```
    console.log("Example app listening at http://%s:%s", host, port)
```

```
})
```

Pat.html:

```
<html>
```

```
<head>
```

```
    <title>
```

```
        HTML forms
```

```
    </title>
```

```
<style>
```

```
body {
```

```
    background-color:rgba(128, 128, 128, 0.459);
```

```
    font-size: 20px;
```

```
}
```

```
h1 {
```

```
    color: Black;
```

```
    font-size: 60px;
```

```
    text-align: center;
```

```
}
```

```
p {color: red;}
```

```
table,td{
```

```
    font-size: 20px;
```

padding: 15px;

}

table{

background-color: white;

border: 0px solid black;

}

td{

*/*border-spacing: 15px;*/*

border: 0px solid black;

font-size: 30px;

}

tr:hover {background-color: rgba(243, 135, 211, 0.521);}

tr:nth-child(even) {background-color: #93ccec;}

</style>

</head>

<body >

<h1>

PAT-Registration Form</h1>

<center>

<form action = "http://127.0.0.1:8081/process_post" method = "POST">

<table style="width:55%;">

<tr>

*<td>First Name:
*

```
                <input type="text" placeholder="Enter First Name"
name="first_name">
            </td>
            <td><b>Last Name:</b><br>
                <input type="text" placeholder="Enter Last Name"
name="last_name">
            </td>

        </tr>
        <tr>
            <td colspan="2">
                <b>Reg No.:</b><br>
                <input type="text" placeholder="Enter Reg No"
name="regNo">
            </td>
        </tr>
        <tr>
            <td colspan="2">
                <b>Sex</b><br>
                <input type="radio" name="sex">Male<br>
                <input type="radio" name="sex">Female
            </td>
        </tr>
        <tr>
            <td colspan="2">
                <b>Date Of Birth</b><br>
                <input type="date" name="dob">
            </td>
        </tr>
```

</tr>

<tr>

<td colspan="2">

Email address:

<input type="email" placeholder="Enter Email"
name="mail">

</td>

</tr>

<tr>

<td colspan="2">

Year of Graduation

<select name="year">

<option value="2021">2021</option>

<option value="2022" >2022</option>

<option value="2023" selected>2023</option>

<option value="2024">2024</option>

<option value="2025">2025</option>

</select>

</td>

</tr>

<tr>

<td colspan="2">

Select your Course

<select name="Course">

<option value="Btech CSE">Btech CSE</option>

<option value="Int Mtech MID" selected>Int Mtech MID</option>

<option value="Int Mtech SE">Int Mtech SE</option>

<option value="Btech ECE">Btech ECE</option>

<option value="Btech EEE">Btech EEE</option>

</select>

</td>

</tr>

<tr>

<td colspan="2">

*Any work Experience
*

*<input type="checkbox" name="Work">Yes
*

<input type="checkbox" name="Work">No

</td>

</tr>

<tr>

<td colspan="2">

<input type="submit" value="Submit">

</td>

</tr>

</table>

</center>

</form>

</body>

</html>

```
Command Prompt - node post.js

Microsoft Windows [Version 6.3.9600]
(c) 2013 Microsoft Corporation. All rights reserved.

C:\Users\S.SARATH>cd desktop
C:\Users\S.SARATH\Desktop>cd sem 5
C:\Users\S.SARATH\Desktop\sem 5>cd adc_web_tech
C:\Users\S.SARATH\Desktop\sem 5\adc_web_tech>cd express
C:\Users\S.SARATH\Desktop\sem 5\adc_web_tech\EXPRESS>node post.js
Example app listening at http://:::8081
{
  first_name: 'SRUTHI ',
  last_name: 'RAJAN',
  regNo: '19MID0053',
  sex: 'on',
  dob: undefined,
  mail: 'sruthirajan@gmail.com',
  year: '2024',
  Course: 'Int Mtech MID',
  Work: 'on'
}
```

<http://127.0.0.1:8081/pat.html>

The screenshot shows a web browser window with the title 'HTML forms'. The address bar displays '127.0.0.1:8081/pat.html'. The main content area features a form titled 'PAT-Registration Form'. The form includes the following fields and options:

- First Name:** Text input field containing 'SRUTHI'.
- Last Name:** Text input field containing 'RAJAN'.
- Reg No.:** Text input field containing '19MID0053'.
- Sex:** Radio button group with 'Male' and 'Female' options. 'Female' is selected.
- Date Of Birth:** Date picker showing '12/14/2021'.
- Email address:** Text input field containing 'sruthirajan@gmail.com'.
- Year of Graduation:** Dropdown menu showing '2024'.
- Select your Course:** Dropdown menu showing 'Int Mtech MID'.
- Any work Experience:** Radio button group with 'Yes' and 'No' options. 'No' is selected.
- Submit:** A button at the bottom of the form.

http://127.0.0.1:8081/process_post

```
{"first_name": "SRUTHI ", "last_name": "RAJAN", "regNo": "19MID0053", "sex": "on", "mail": "sruthirajan@gmail.com", "year": "2024", "Course": "Int Mtech MID", "Work": "on"}
```