



CERTIFICATE

This is to certify that

Mr./Miss/Ms. _____ student of
B.Sc.(CS) / B.Sc(Animation)/B.Com. / BCA / MCA (Comm.) /
M.Sc(CS) / MCA(Sci.) Semester _____ having Seat No.
_____ at Suryadatta College of Management Information
Research & Technology (SCMIRT), Pune, has successfully
completed the assigned practical in
_____ prescribed by the University of
Pune During the academic year _____.

Internal Examiner

External Examiner

Principa

1 Place: Pune

Date:

COMPUTER APPLICATION

Submitted	
on _____	InCharge _____
Name	

Course _____ Semester _____	
Batch _____	
Expt.No. _____ Title _____	



CERTIFICATE

This is to certify that

Mr./Miss/Ms. _____

Student of B.Sc. (CS) / B.Sc(Animation)/ BCA / MCA (Comm.) /

MSC (CS) / MCA (Sci.) Semester _____ having Seat No.

_____ at

Suryadatta College of Management Information Research &
Technology

(SCMIRT), Pune has successfully completed the assigned Project titled _____ as per the norms of University of Pune During the academic year_____.

Internal Examiner

External Examiner

Project Guide

Principal

Place: Pune

Date:

Mongodb:

1) Create a database with the name 'Movie'.

use Movie

'switched to db Movie'

2)Create a Film and Actor collection -

db.createCollection("Film")

{ ok: 1 } db.createCollection("Actor")

{ ok: 1 }

3)Insert record in the Film collection of documents with the following feilds:

(a) Film Id

- (b) **Title of the Film**
- (c) **Year of release**
- (d) **Genre/Category**
- (e) **Actors(First name and Last name)**
- (f) **Director(First name and Last name)**
- (g) **Release Details(Place of release,Date,Rating)**

Insert 10 Records

```
1      db.Film.insertOne({Fid:101,Ftitle:"Avengers:Endgame",year_of_release:"2019",
      genre:["action","adventure","drama"],actors:[{fname:"robert",lname:"downeyjr"},
      {fname:"chris",lname:"evans"}],director:[{dfname:"anthony",dlname:"russo"},
      {dfname:"joe",dlname:"russo"}],release_details:[{place_of_release:"convention centre",
      date_of_release:"04/22/2019",rating:"A+"}}})
```

```
{ acknowledged: true,
```

```
insertedId: ObjectId("63b84305a3d9b422e12fdf15") }
```

```
2      db.Film.insertOne({Fid:102,Ftitle:"Avengers:Infinity War",year_of_release:"2018",
      genre:["action","adventure","Sci-Fi"],actors:[{fname:"robert",lname:"downeyjr"},
      {fname:"chris",lname:"evans"}],director:[{dfname:"anthony",dlname:"russo"},
      {dfname:"joe",dlname:"russo"}],release_details:[{place_of_release:"Do lby theatre",
      date_of_release:"04/23/2019",rating:"A"}]})
```

```
{ acknowledged: true,
```

```
insertedId: ObjectId("63b846eba3d9b422e12fdf16") }
```

```
3      db.Film.insertOne({Fid:103,Ftitle:"The Lion King",year_of_release:"2019",
      genre:["animation","adventure","drama"],actors:[{fname:"donald",lname:"glover"},
      {fname:"seth",lname:"rogen"}],director:[{dfname:"jon",dlname:"favreau"}],
```

```
release_details:[{place_of_release:"hollywood",date_of_release:"07/09/2019",rating:"A"}]})
```

```
{ acknowledged: true,  
insertedId: ObjectId("63b84838a3d9b422e12fdf17") }
```

```
4      db.Film.insertOne({Fid:104,Ftitle:"Spider-Man:Far From  
Home",year_of_release:"2019",  
genre:["action","adventure","drama"],actors:[{fname:"tom",lname:"holland"},  
{fname:"samuel",lname:"jackson"}],director:[{dfname:"jon",dlname:"watts"}],  
release_details:[{place_of_release:"hollywood",date_of_release:"06/26/2019",rating:"A"}]})
```

```
{ acknowledged: true, insertedId:  
ObjectId("63b84b36a3d9b422e12fdf18") }
```

```
5      db.Film.insertOne({Fid:105,Ftitle:"Dil to pagal hai",year_of_release:"1997",  
genre:["comedy","musical","drama"],actors:[{fname:"shahrukh",lname:"khan"},  
{fname:"madhuri",lname:"dixit"}],director:[{dfname:"yash",dlname:"chopra"}],  
release_details:[{place_of_release:"india",date_of_release:"10/31/1997",rating:"A"}]})
```

```
{ acknowledged: true,  
insertedId: ObjectId("63b84c4ea3d9b422e12fdf19") }
```

```
6      db.Film.insertOne({Fid:106,Ftitle:"hum tumhare hai sanam",year_of_release:"2002",  
genre:["romance","drama"],actors:[{fname:"salman",lname:"khan"},  
{fname:"madhuri",lname:"dixit"}],director:[{dfname:"K",dlname:"adhiyaman"}],  
release_details:[{place_of_release:"india",date_of_release:"05/24/2002",rating:"A"}]})
```

```
{ acknowledged: true,
```

insertedId: ObjectId("63b84cf8a3d9b422e12fdf1a") }

```
7      db.Film.insertOne({Fid:107,Ftitle:"hum aapke hai kaun",year_of_release:"1994",
      genre:["comedy","drama","musical"],actors:[{fname:"salman",lname:"khan"},
      {fname:"madhuri",lname:"dixit"},{fname:"sooraj",lname:"barjatya"}],
      director:[{dfname:"sooraj",dlname:"barjatya"}],
      release_details:[{place_of_release:"india",date_of_release:"08/05/1994",rating:"A"}]})
```

{ acknowledged: true,

insertedId: ObjectId("63b84ddba3d9b422e12fdf1b") }

```
8      db.Film.insertOne({Fid:108,Ftitle:"avatar",year_of_release:"2009",
      genre:["action","adventure","fantasy"],actors:[{fname:"sam",lname:"worthington"},
      {fname:"zoe",lname:"saladana"},{fname:"stephan",lname:"lang"}],
      director:[{dfname:"james",dlname:"cameron"}],
      release_details:[{place_of_release:"london",date_of_release:"12/10/2009",rating:"A"}]})
```

{ acknowledged: true,

insertedId: ObjectId("63b84ea3a3d9b422e12fdf1c") }

```
9      db.Film.insertOne({Fid:109,Ftitle:"brothers",year_of_release:"2015",
      genre:["action","drama","sport"],actors:[{fname:"akshay",lname:"kumar"},
      {fname:"sidharth",lname:"malhotra"},{fname:"jacqueline",lname:"fernandez"}],
      director:[{dfname:"karan",dlname:"malhotra"}],
      release_details:[{place_of_release:"India",date_of_release:"08/14/2015",rating:"A"}]})
```

{ acknowledged: true, insertedId:

ObjectId("63b84f7fa3d9b422e12fdf1d") }

```
10    db.Film.insertOne({Fid:110,Ftitle:"war",year_of_release:"2019",
        genre:["action","thriller"],actors:[{fname:"rithik",lname:"roshan"},
        {fname:"tiger",lname:"shroff"}],director:[{dfname:"siddharth",dlname:"anand"}],
        release_details:[{place_of_release:"India",date_of_release:"10/02/2019",rating:"A"}]})
```

```
{ acknowledged: true,
insertedId: ObjectId("63b85078a3d9b422e12fdf1e") }
```

4)Insert record in the Actor collection of documents with the following feilds:

- (a) Actor Id
- (b) First name
- (c) Last name
- (d) Address
- (e) Contact Details
- (f) Age of an actor

Insert 10 Records

```
1    db.Actor.insertOne({Aid:201,Afname:"robert",Alname:"downeyjr",
        address:[{street:"california",Country:"united states",pincode:"90291"}],
        contact_details:[{email:"robert_downeyjr@gmail.com",Phone:14242882000}],Age:54})
```

```
{ acknowledged: true,  insertedId:
ObjectId("63b852b7a3d9b422e12fdf1f") }
```

```
2    db.Actor.insertOne({Aid:202,Afname:"chris",Alname:"evans",
        address:[{street:"morrissey blvd",Country:"boston",pincode:"90292"}],
        contact_details:[{email:"chris.evans@gmail.com",Phone:13242882000}],Age:38})
```

```
{ acknowledged: true, insertedId:
ObjectId("63b853b9a3d9b422e12fdf20") }
```

```
3      db.Actor.insertOne({Aid:203,Afname:"seth",Aname:"rogen",
      address:[{street:"nadeau",Country:"united states",pincode:"90298"}],
      contact_details:[{email:"rogenseth@gmail.com",Phone:13246882000}],Age:37})
```

```
{ acknowledged: true, insertedId:
ObjectId("63b8589da3d9b422e12fdf21") }
```

```
4      db.Actor.insertOne({Aid:204,Afname:"samuel",Aname:"jackson",
      address:[{street:"wilshireblvd",Country:"united states",pincode:"97298"}],
      contact_details:[{email:"samuel.jackson@gmail.com",Phone:13246782000}],Age:70})
```

```
{ acknowledged: true, insertedId:
ObjectId("63b85903a3d9b422e12fdf22") }
```

```
5      db.Actor.insertOne({Aid:205,Afname:"shahrukh",Aname:"khan",
      address:[{street:"h k road",Country:"india",pincode:"77298"}],
      contact_details:[{email:"iamsrk@gmail.com",Phone:12756782000}],Age:53})
```

```
{ acknowledged: true,
insertedId: ObjectId("63b85996a3d9b422e12fdf23") }
```

```
6      db.Actor.insertOne({Aid:206,Afname:"madhuri",Aname:"dixit",
      address:[{street:"vijaydeep",Country:"india",pincode:"75298"}],
      contact_details:[{email:"madhuri.dixit@gmail.com",Phone:127560098000}],Age:52})
```

```
{ acknowledged: true,
insertedId: ObjectId("63b85a14a3d9b422e12fdf24") }
```


7 **db.Actor.insertOne**({Aid:207,Afname:"salman",Alname:"khan",
address:[{street:"BJroad",Country:"india",pincode:"74298"}],
contact_details:[{email:"beingsalmankhan@gmail.com",Phone:127560000000}],Age:53})

{ acknowledged: true,
insertedId: ObjectId("63b85a4ca3d9b422e12fdf25") }

8 **db.Actor.insertOne**({Aid:208,Afname:"sam",Alname:"worthington",
address:[{street:"E 99th ST",Country:"united states",pincode:"74290"}],
contact_details:[{email:"sam.w@gmail.com",Phone:127560000001}],Age:43})

{ acknowledged: true,
insertedId: ObjectId("63b85aaba3d9b422e12fdf26") }

9 **db.Actor.insertOne**({Aid:209,Afname:"akshay",Alname:"kumar",
address:[{street:"gandhi gram road",Country:"india",pincode:"74760"}],
contact_details:[{email:"iamak@gmail.com",Phone:127560004501}],Age:52})

{ acknowledged: true,
insertedId: ObjectId("63b85b06a3d9b422e12fdf27") }

10 **db.Actor.insertOne**({Aid:210,Afname:"hrithik",Alname:"roshan",
address:[{street:"11th juhu",Country:"india",pincode:"34760"}],
contact_details:[{email:"hrithikroshan@gmail.com",Phone:567560004501}],Age:45})

{ acknowledged: true,
insertedId: ObjectId("63b85b4fa3d9b422e12fdf28") }

5) Display all the documents inserted in the Film Collection-

db.Film.find().pretty()

```
{ _id: ObjectId("63b84305a3d9b422e12fdf15"),  
  Fid: 101,  
  Ftitle: 'Avengers:Endgame',    year_of_release:  
  '2019',  
  genre: [ 'action', 'adventure', 'drama' ],  
  actors:  
  [ { fname: 'robert', lname: 'downeyjr' },  
    { fname: 'chris', lname: 'evans' } ],  
  director:  
  [ { dfname: 'anthony', dlname: 'russo' },  
    { dfname: 'joe', dlname: 'russo' } ],  release_details:  
  [ { place_of_release: 'convention centre',  
    date_of_release: '04/22/2019',  
    rating: 'A+' } ] }
```

```
{ _id: ObjectId("63b846eba3d9b422e12fdf16"),  
  Fid: 102,  
  Ftitle: 'Avengers:Infinity War',  year_of_release:  
  '2018', genre: [ 'action', 'adventure', 'Sci-Fi' ],  
  
  actors:  
  [ { fname: 'robert', lname: 'downeyjr' },  
    { fname: 'chris', lname: 'evans' } ],  
  director:  
  [ { dfname: 'anthony', dlname: 'russo' },  
    { dfname: 'joe', dlname: 'russo' } ],  
  release_details:
```

```
[ { place_of_release: 'Do lby theatre',    date_of_release:
'04/23/2019',
rating: 'A' } ] }
```

```
{ _id: ObjectId("63b84838a3d9b422e12fdf17"),
Fid: 103,
Ftitle: 'The Lion King',    year_of_release: '2019',
genre: [ 'animation', 'adventure', 'drama' ],
actors:
[ { fname: 'donald', lname: 'glover' },    {
fname: 'seth', lname: 'rogen' } ],
director: [ { dfname: 'jon', dlname: 'favreau' } ],
release_details:    [ { place_of_release:
'hollywood',    date_of_release: '07/09/2019',
rating: 'A' } ] }
```

```
{ _id: ObjectId("63b84b36a3d9b422e12fdf18"),
Fid: 104,
Ftitle: 'Spider-Man:Far From Home',
year_of_release: '2019',    genre: [
'action', 'adventure', 'drama' ], actors:
[ { fname: 'tom', lname: 'holland' },    { fname:
'samuel', lname: 'jackson' } ],    director: [ { dfname:
'jon', dlname: 'watts' } ],    release_details:
[ { place_of_release: 'hollywood',
date_of_release: '06/26/2019',
rating: 'A' } ] }
```

```
{ _id: ObjectId("63b84c4ea3d9b422e12fdf19"),
Fid: 105,
```

Ftitle: 'Dil to pagal hai',
year_of_release: '1997', genre: [
'comedy', 'musical', 'drama'],
actors:
[{ fname: 'shahrukh', lname: 'khan' }, {
fname: 'madhuri', lname: 'dixit' }],
director: [{ dfname: 'yash', dlname: 'chopra' }],
release_details: [{ place_of_release: 'india',
date_of_release: '10/31/1997',
rating: 'A' }] }

{ _id: ObjectId("63b84cf8a3d9b422e12fdf1a"),
Fid: 106,
Ftitle: 'hum tumhare hai sanam',
year_of_release: '2002', genre: [
'romance', 'drama'], actors:
[{ fname: 'salman', lname: 'khan' },
{ fname: 'madhuri', lname: 'dixit' }],
director: [{ dfname: 'K', dlname: 'adhiyaman' }],
release_details:
[{ place_of_release: 'india', date_of_release:
'05/24/2002',
rating: 'A' }] }

{ _id: ObjectId("63b84ddba3d9b422e12fdf1b"),
Fid: 107,
Ftitle: 'hum aapke hai kaun',
year_of_release: '1994', genre: [
'comedy', 'drama', 'musical'],
actors:

```
[ { fname: 'salman', lname: 'khan' },
  { fname: 'madhuri', lname: 'dixit' },
  { fname: 'sooraj', lname: 'barjatya' } ],
director: [ { dfname: 'sooraj', dlname: 'barjatya' } ],      release_details:
[ { place_of_release: 'india',    date_of_release:
  '08/05/1994',
  rating: 'A' } ] }
```

```
{ _id: ObjectId("63b84ea3a3d9b422e12fdf1c"),
  Fid: 108,
  Ftitle: 'avatar',      year_of_release:
  '2009',      genre: [ 'action', 'adventure',
  'fantasy' ],
  actors:
  [ { fname: 'sam', lname: 'worthington' },
    { fname: 'zoe', lname: 'saladana' },    { fname: 'stephan',
  lname: 'lang' } ],      director: [ { dfname: 'james',
  dlname: 'cameron' } ], release_details:      [ {
  place_of_release: 'london',    date_of_release:
  '12/10/2009',
  rating: 'A' } ] }
```

```
{ _id: ObjectId("63b84f7fa3d9b422e12fdf1d"),
  Fid: 109,
  Ftitle: 'brothers',    year_of_release:
  '2015',      genre: [ 'action', 'drama',
  'sport' ],
  actors:
  [ { fname: 'akshay', lname: 'kumar' },
    { fname: 'sidharth', lname: 'malhotra' },
```

```
{ fname: 'jacqueline', lname: 'fernandez' } ],    director: [
{ dfname: 'karan', dlname: 'malhotra' } ],
release_details:
[ { place_of_release: 'India',    date_of_release:
'08/14/2015',
rating: 'A' } ] }
```

```
{ _id: ObjectId("63b85078a3d9b422e12fdf1e"),
Fid: 110,    Ftitle: 'war',
year_of_release: '2019',
genre: [ 'action', 'thriller' ],
actors:
[ { fname: 'rithik', lname: 'roshan' },
{ fname: 'tiger', lname: 'shroff' } ],    director: [ {
dfname: 'siddharth', dlname: 'anand' } ],
release_details:
[ { place_of_release: 'India',
date_of_release: '10/02/2019',
rating: 'A' } ] }
```

6) Display all the documents inserted in the Actor Collection-

db.Actor.find().pretty()

```
{ _id: ObjectId("63b852b7a3d9b422e12fdf1f"),
Aid: 201,
Afname: 'robert',    Alname:
'downeyjr',    address:
```

```
[ { street: 'california',    Country:
'united states',    pincode: '90291' }
],
contact_details: [ { email: 'robert_downeyjr@gmail.com', Phone: 14242882000 } ],
Age: 54 }
```

```
{ _id: ObjectId("63b853b9a3d9b422e12fdf20"),
Aid: 202,
Afname: 'chris',
Alname: 'evans',
address: [ { street: 'morrissey blvd', Country: 'boston', pincode: '90292' } ],    contact_details:
[ { email: 'chris.evans@gmail.com', Phone: 13242882000 } ],
Age: 38 }
```

```
{ _id: ObjectId("63b8589da3d9b422e12fdf21"),
Aid: 203,
Afname: 'seth',
Alname: 'rogen',
address: [ { street: 'nadeau', Country: 'united states', pincode: '90298' } ], contact_details: [ {
email: 'rogenseth@gmail.com', Phone: 13246882000 } ], Age: 37 }
```

```
{ _id: ObjectId("63b85903a3d9b422e12fdf22"),
Aid: 204,
Afname: 'samuel',    Alname:
'jackson',    address:
[ { street: 'wilshireblvd',    Country:
'united states',    pincode: '97298' }
],
contact_details: [ { email: 'samuel.jackson@gmail.com', Phone: 13246782000 } ],
Age: 70 }
```

{ _id: ObjectId("63b85996a3d9b422e12fdf23"),

Aid: 205,

Afname: 'shahrukh', Alname:

'khan',

address: [{ street: 'h k road', Country: 'india', pincode: '77298' }],

contact_details: [

{ email: 'iamsrk@gmail.com', Phone: 12756782000 }],

Age: 53 }

{ _id: ObjectId("63b85a14a3d9b422e12fdf24"),

Aid: 206,

Afname: 'madhuri', Alname:

'dixit',

address: [{ street: 'vijaydeep', Country: 'india', pincode: '75298' }],

contact_details: [{

email: 'madhuri.dixit@gmail.com', Phone: 127560098000 }],

Age: 52 }

{ _id: ObjectId("63b85a4ca3d9b422e12fdf25"),

Aid: 207,

Afname: 'salman',

Alname: 'khan', address: [{ street: 'BJroad', Country: 'india', pincode:

'74298' }], contact_details: [{ email: 'beingsalmankhan@gmail.com', Phone:

127560000000 }],

Age: 53 }

{ _id: ObjectId("63b85aaba3d9b422e12fdf26"),

Aid: 208,

Afname: 'sam',

Alname: 'worthington',

address:


```
[ { street: 'E 99th ST',    Country:
'united states',    pincode: '74290' }
],
contact_details: [ { email: 'sam.w@gmail.com', Phone: 127560000001 } ],
Age: 43 }
```

```
{ _id: ObjectId("63b85b06a3d9b422e12fdf27"),
Aid: 209,
Afname: 'akshay',    Alname:
'kumar',    address:
[ { street: 'gandhi gram road',
Country: 'india',    pincode:
'74760' } ] },
contact_details: [ { email: 'iamak@gmail.com', Phone: 127560004501 } ],
Age: 52 }
```

```
{ _id: ObjectId("63b85b4fa3d9b422e12fdf28"),
Aid: 210,
    Afname: 'hrithik', Alname: 'roshan', address: [ { street: '11th juhu',
    Country: 'india', pincode: '34760' } ] },
contact_details: [ { email: 'hrithikroshan@gmail.com', Phone: 567560004501 } ],
Age: 45 }
```

7) Delete the film "Avatar" -

db.File.deleteOne({Ftitle:"avatar"})

{ acknowledged: true, deletedCount: 0 }

8) Delete an actor named "Salman"

```
db.Actor.deleteOne({Afname:"salman"})
```

```
{ acknowledged: true, deletedCount: 1 }
```

9) Delete all actors from an 'Actor' collection who have age greater than "50"-

```
db.Actor.deleteMany({Age:{$gt:50}})
```

```
{ acknowledged: true, deletedCount: 4 }
```

10) Update the actor's address where Id is "210"

```
db.Actor.updateMany({Aid:210}, {$set:{address:[{street:"1260  
nadeau",Country:"united states",pincode:"9002"}]}})
```

```
{ acknowledged: true,  
  insertedId: null,  
  matchedCount: 1,    modifiedCount:  
  1,    upsertedCount: 0 }
```

11) Update the genre of the film directed by "Yash Chopra"-

```
db.Film.updateMany({"director.dfname":"yash"},{$set:{genre:["adven  
ture","comedy"]}})
```

```
{ acknowledged: true, insertedId: null,  
  matchedCount: 1,    modifiedCount:  
  1,    upsertedCount: 0 }
```