

# Pune Institute of Computer Technology

## Department of Information Technology

Academic Year:2022-23 (Sem-I)

Subject:-LP-I(ADBMS)

### Exercise I

Lab Teacher:-Jagadish Kashinath Kamble

Date:-25/07/2022

---

Q.1)

1. create database “movie”
2. create collection named “film” and “actor”
3. Insert at least 10 documents in the collection Film e.g.  
"film id":101,title:"saaho", "year of release":2019,  
genre:["action","adventure"], actors:[  
{fname:"prabhas",lname:"india"},  
{fname:"jacqueline",lname:"fernandes"} ], directors:[  
{fname:"karan",lname:"johar"}, {fname:"steve",lname:"smith"}  
], "release details":[ {"places of  
release":["Kolhapur","pune","nashik"]},  
{"dates":["1/1/2019","2/2/2020"]}, {"rating of film":4}]
4. Insert at least 10 documents in the collection Actor. e.g "actor  
id":1,fname:"aamir",lname:"khan",address:[ {street:"wall  
street"},{city:"new york"}, {state:"mid state"},  
{country:"usa"},{pincode:"62201"} ],"contact details":[  
{emailid:"sallu@gmail.com"}, {phonene:"12345678"} ]
5. Display all the film details.
6. Display all the actor details.
7. Add a value to the rating of the film whose title starts with ‘T’.
8. Add an actor named "Shahid Kapoor " in the ‘Actor’ collection.  
Also add the details of the film ‘Kismat Konnection’ in film  
collection in which this actor has acted in.
9. Delete the film " Kismat Konnection".
10. Delete an actor named " Shahid Kapoor".
11. Delete all actors from an ‘Actor’ collection who have age  
greater than “ 50”
12. Update the actor’s address where Actor Id is “101 ”

13. Update the genre to action and drama of the film directed by “ Steve Smith”.

#### Q.2)

1. Create a database with name ‘Company’.
2. Create collection “Employee” and Transaction without createCollection method.
3. Insert at least 5 documents in ‘Employee’ collection e.g.  
`{"Employee ID":"111", "first name":"Jagadish", "last name":"kamble", "email":"jkk@pictit.com", "address":[ {"house no":1}, {"street":"PICT College"}, {"city":"Pune"}, {"state":"maharashtra"}, {"country":"India"}, {"pin code":400005} ], "salary":100000, "designation":"Project Head", "experience":8, "date of joining":"04/07/2017", "birthday":"1/1/1989"}`
4. Insert multiple documents (at least 10) into the ‘Transaction’ collection by passing an array of documents to the `db.collection.insert ()` method. E.g. `{"transaction id":"111", "transaction date":"22/07/2022", "name":"Jagadish", "transaction details":[ {"item id":"111"}, {"item name":"bike"}, {"quantity":5}, {"price":95000} ], "payement":[ {"type of payement":"UPI"}, {"total amount paid":85000}, {"payement sucessful":"true"} ], "remark":"bike purchased"}`
5. Display all the documents of both the collections in a formatted manner.
6. Update salary of all employees by giving an increment of Rs. 4000.
7. Update the remark for transaction id 201.
8. Update designation of an employee named “xyz” from supervisor to manager.
9. Update designation of an employee having Employee Id as “101”
10. Change the address of an employee having Employee Id as “101”
11. Delete transaction made by “ raj” employee on the given date.
12. Delete all the employees whose first name starts with ‘K’.

#### Q.3)

1. create database “movie”
2. create collection named “film” and “actor”

3. Insert at least 10 documents in the collection Film e.g.  
`"film id":101,title:"saaho", "year of release":2019,  
genre:["action","adventure"], actors:[  
{fname:"prabhas",lname:"india"},  
{fname:"jacqueline",lname:"fernandes"} ], directors:[  
{fname:"karan",lname:"johar"}, {fname:"steve",lname:"smith"}  
], "release details":[ {"places of  
release":["Kolhapur","pune","nashik"]},  
{"dates":["1/1/2019","2/2/2020"]}, {"rating of film":4}]`
4. Insert at least 10 documents in the collection Actor. e.g "actor  
id":1,fname:"aamir",lname:"khan",address:[ {street:"wall  
street"},{city:"new york"}, {state:"mid state"},  
{country:"usa"},{pincode:"62201"} ],"contact details":[  
{emailid:"sallu@gmail.com"}, {phonene:"12345678"} ]
5. Display all the film details.
6. Display all the actor details
7. Find the titles of all the films starting with the letter 'R' released  
during the year 2009 and 2011.
8. Find the list of films acted by an actor " salman ".
9. Find all the films released in 90s
10. Find all films belonging to "Adventure" and "Thriller" genre
11. Find all the films having 'U' rating.
12. Arrange the film names in ascending order and release year  
should be in descending order.
13. Sort the actors in ascending order according to their age.
14. Find movies that are comedies or dramas and are released  
after 2013
15. Show the latest 2 films acted by an actor " salman".
16. List the titles of films acted by actors " shahid " and "kiara "
17. Retrieve films with an actor living in Spain.
18. Retrieve films with actor details.

#### Q.4)

1. Create a database with name 'Company'.
2. Create collection "Employee" and Transaction without  
createCollection method.
3. Insert at least 5 documents in 'Employee' collection e.g.  
{"Employee ID":"111", "first name":"Jagadish", "last

```
name":"kamble", "email":jkk@pictit.com , "address":[ {"house
no":1}, {"street":"PICT College"}, {"city":"Pune"},
{"state":"maharashtra"}, {"country":"India"}, {"pin
code":400005} ], "salary":100000, "designation":"Project Head",
"experience":8, "date of joining":"04/07/2017",
"birthday":"1/1/1989"}
```

4. Insert multiple documents (at least 10) into the 'Transaction' collection by passing an array of documents to the db.collection.insert () method. E.g. { "transaction id":"111", "transaction date":"22/07/2022", "name":"Jagadish", "transaction details":[ {"item id":"111"}, {"item name":"bike"}, {"quantity":5}, {"price":95000} ], "payement":[ {"type of payement":"UPI"}, {"total amount paid":85000}, {"payement sucessful":"true"} ], "remark":"bike purchased" }
5. Display all the documents of both the collections in a formatted manner.
6. Find employees having designation as either 'manager' or 'floor supervisor'.
7. Find an employee whose name ends with "a ".
8. Display the name of an employee whose salary is greater than "5000".

#### Q.5)

1. Create database EMP and Make Collection With name "EMPL".
2. Insert Records Into EMPL Collection  
e.g. {no:1,name:"ST",salary:2000,role:"OB"}
3. Display all the documents from the collections in a formatted manner.
4. Update Salary Of Employee where Name is "ST" by +8000
5. Update Salary Of All Employee by giving an increment of +4000 each
6. update role of "MSD" as "C and WK"
7. Add a New Field remark to document with name "RS" set Remark as WC
8. Add a New Field As Number 11,name AK,Salary 10000,role coach without using insert statement. But for Doing So You should have a Record Added with number 11.
9. remove added New Field
10. Update the Field "RD" by multiplying with salary by 2

11. To Find Document From the empl collection where name begins with S
12. To Find Document From the empl collection where name begins with R
13. To Find Document From the empl collection where name ends with K
14. To Find Document From the empl collection where name ends with D
15. To Find Document From the empl collection where name has S in any position
16. To Find Document From the empl collection where name begins with S (using regular expression)
17. To Find Document From the empl collection where name begins with S (using regular expression)