Assignment

Feb19/ DBT/ 129

Database Technologies

Diploma in Advance Computing

February 2019

**MongoDB**

USE ***EMP***collection.

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| 1. Display all databases. |
| show dbs;  show databases; |
|  |
| 1. Display the current database. |
| db  db.getName(); |
|  |
| 1. Display all collection. |
| db.getCollectionNames(); |
|  |
| 1. Display the current version of MongoDB. |
| version(); |
|  |
| 1. Display the current host details. |
| hostname(); |
|  |
| 1. Get the current ip address and the port number. |
| db.getMongo(); |
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| 1. Display all documents from EMP collection. |
| db.emp.find();  db.getCollection('emp').find(); |
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| 1. Display first 5 documents from EMP collection. |
| db.emp.find().limit(5); |
|  |
| 1. Display employee name, and his address from EMP collection. |
| db.emp.find({}, { ename: true, address: true }) |
|  |
| 1. Display all building and coord details of all employee from EMP collection. |
| db.getCollection('emp').find({}, { \_id: false, "address.building": true, "address.coord": true }); |
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| 1. Display all documents who are staying in building number “2780”. |
| db.getCollection('emp').find({"address.building":"2780"}); |
|  |
| 1. Display all female employee documents. |
| db.getCollection('emp').find({ gender: "female" }); |
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| 1. Display all employee working in department number 40. |
| db.getCollection('emp').find({ deptno: 40 }); |
|  |
| 1. Enter 5 documents in EMP collection in the following format.   empid:number, ename:str, address:{ building:str,"coord" : [number,number], street:str, zipcode:number }, isActive : bool, gender:char, canVote:bool, canDrive:bool, favouriteColor[,..], favouriteFruit[,..], aadhar:str, job:str, mgr:number, hiredate:date, sal:number, comm:number, deptno:number |
| db.emp.insertMany( [ {}, {}, {}, {}, {} ] ) |
|  |
| 1. Count total documents in EMP collection. |
| db.emp.countDocuments({}) |
|  |
| 1. Display ename, sal, comm fields from the collection, who are getting some comm. |
| db.getCollection('emp').find( {comm: { $ne: null} }, {ename: true, sal: true, comm: true}) |
|  |
| 1. Count the documents of ‘Computer Programmer’ |
| db.emp.countDocuments({ job: "Computer Programmer" } ) |
|  |
| 1. Display ename, job, and salary fields from EMP collection in ascending order of ename. |
| db.emp.find({}, { ename: true, job: true, sal: true }).sort( { ename: 1 } ) |
|  |
| 1. Display all documents between 5 and 10. |
| db.emp.find().skip(5).limit(5) |
|  |
| 1. Display the last document. |
| db.emp.find().skip(db.emp.countDocuments({})-1); |
|  |
| 1. Display all employee *ename, job,* and *sal* field who are working either as ‘manager’ or ‘Computer Programmer’ |
| db.emp.find({ $or:[{job:'manager'}, {job: 'Computer Programmer'} ]}, {ename: true, job: true, sal: true}) |
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| 1. Get all employee whose salary is between 2000 and 4000. |
| db.emp.find({ $and: [ { sal : { $gt : 2000 } }, {sal : { $lt:4000 } } ] }); |
|  |
| 1. Display all distinct job from EMP collection. |
| db.emp.distinct("job") |
|  |
| 1. Display all distinct job from EMP collection whose salary in more than 5000. |
| db.emp.distinct("job", { sal: { $gt: 5000 } } ) |
|  |
| 1. Display all distinct job who are not getting commission. |
| db.emp.distinct("job", { comm: { $ne: null } } ) |
|  |
| 1. Display all documents from EMP collection using aggregate. |
| db.emp.aggregate ([]) |
|  |
| 1. Display all documents whose jab is ‘manager’ using aggregation. |
| db.emp.aggregate ([{$match:{job:'manager'}}]) |
|  |
| 1. Display all documents job is either ‘manager’ or ’salesman’ using aggregation. |
| db.emp.aggregate ([{$match:{$or:[{job:'manager'}, {job:'salesman'}]}}]) |
|  |
| 1. Display sum of salary. |
| db.emp.aggregate ([{$group: {\_id:null, total :{$sum:'$sal'}}}]) |
|  |
| 1. Display sum of salary jobwise. |
| db.emp.aggregate ([{$group: {\_id:'$job', total :{$sum:'$sal'}}}]) |
|  |
| 1. Display all distinct job who are not getting commission. |
| db.emp.distinct("job", { comm: { $eq: null } } ) |
|  |
| 1. Display the count of employees working for every job. |
| db.emp.aggregate ([{$group: {\_id:'$job', count :{$sum:1}}}]) |
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| 1. Export EMP collection in JSON format. (filename “D:\e.json”) |
| mongoexport --host 192.168.100.20 --port 27017 --collection emp --db db1 --out "d:\e.json" |
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