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Usn: 1BM17CS150

Dept: CSE

Sub: BDA lab

LAB-1

Write up

Name: Ravi Kumar

USN: 1BM17CS150

Date: / / 200

Subject: BDA Lab

Q1) College Database

- Collections
- 1) Student
 - 2) Faculty
 - 3) COE
 - 4) Library
 - 5) Admission
 - 6) Collegefestival

1) use College

2) Insert into student

① db.Student.insert ({-id:1, Name:"Ravi", USN:150,
Age:22, Branch:"CSE", Mobile:

7996026361, Email:"ravi@bmsce.ac.in"})

② db.Student.insert ({-id:2, Name:"Ajit", USN:154,
Age:22, Branch:"CSE", Mobile:

7777777777, Email:"ajit@bmsce.ac.in"})

③ db.Student.insert ({-id:3, Name:"Amar", USN:777

Age:21, Branch:"CSE", Mobile:
7777788888, Email:"amar@bmsce.ac.in"})

ac.in" })

④ db.Student.insert({id:4, Name:"Akbar", USN:888,
Age:22, Branch:"CSE", Mobile:
77777799888, Email:
"akbar.us17@bmsce.ac.in"})

2) Insert into Faculty

db.Faculty.insert({id:1, Name:"Abc", Age:35, Branch:"CSE",
Mobile:7777777777, Email:"abc@gmail.com"})

db.Faculty.insert({id:2, Name:"Def", Age:35, Branch:"CSE",
Mobile:7777789777, Email:"def@gmail.com"})

db.Faculty.insert({id:3, Name:"ghi", Age:35, Branch:"CSE",
Mobile:7878787878, Email:"ghi@gmail.com"})

db.Faculty.insert({id:4, Name:"JKL", Age:35, Branch:"CSE",
Mobile:9898989898, Email:"jkl@gmail.com"})

3) Insert into COE

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db.coe.insert ({id:1, Name:"name1", Age:35, Dept:"CSE",
Mobile: 8899889988, Email:"name1@gmail.com"})

db.coe.insert ({id:2, Name:"name2", Age:40, Dept:"CSE",
Mobile: 8989898989, Email:"name2@gmail.com"})

db.coe.insert ({id:3, Name:"name3", Age:45, Dept:"CSE",
Mobile: 9977779999, Email:"name3@gmail.com"})

db.coe.insert ({id:4, Name:"name4", Age:42, Dept:"ECE",
Mobile: 8177779999, Email:"name4@gmail.com"})

4) Insert into Library

db.library.insert ({id:1, BName:"book1", Price:350, Sub:"CSE",
Author:"Author1", Year:2013})

db.library.insert ({id:2, BName:"book2", Price:250, Sub:"ISE",
Author:"Author2", Year:2013})

db.library.insert ({id:3, BName:"book3", Price:450, Sub:"CSE",
Author:"Author3", Year:2013})

db.library.insert ({id:4, BName:"book4", Price:550, Sub:"ECE",
Author:"Author4", Year:2013})

5) Insert into Admission.

db. Admission.insert({ A-id: 1, FName: "fname1", LName: "lname1",
Type: "CET", Tenthpercent: 90,
Twelfthpercent: 95, Place: "place pqr" })

db. Admission.insert({ A-id: 2, FName: "fname2", LName: "lname2",
Type: "CET", Tenthpercent: 91,
Twelfthpercent: 94, Place: "place abc" })

db. Admission.insert({ A-id: 3, FName: "fname3", LName: "lname3",
Type: "Comed-K", Tenthpercent: 90,
Twelfthpercent: 93, Place: "place pqr" })

db. Admission.insert({ A-id: 4, FName: "fname4", LName: "lname3",
Type: "CET", Tenthpercent: 92,
Twelfthpercent: 95, Place: "place pqr" })

6) Insert into Festival

db. Festival.insert({ id: 1, Ename: "E1", Etype: "Fun",
dept: "Math", word1: "abc", Mob: 999999999 })

db.Festival.insert({id:2, Ename:"E2", Etype:"Fun", dept:"Math",
coordi:"pqr", Mob:8888888888})

db.Festival.insert({id:3, Ename:"E3", Etype:"cooking",
dept:"CSE", coordi:"lmn", Mob:9191919191
3})

db.Festival.insert({id:3, Ename:"E4", Etype:"debugging",
dept:"CSE", coordi:"xyz", Mob:8899889999
3})

Output

1) db.Student.find() → Screenshot 1

2) db.Faculty.find() → Screenshot 2

3) db.COE.find() → Screenshot 3

4) db.Library.find() → Screenshot 4

5) db.Admission.find() → Screenshot 5

6) db.Festival.find() → Screenshot 6

3)

Horizon

BDA_LAB (3)

- System
 - admin
 - local
 - config

* db.Student.find() x

BDA_LAB localhost:27017 College

db.Student.find()

Student 0.002 sec.

Key	Value	Type
(1) ObjectId("5f6c6a922f33581e1326391c") <ul style="list-style-type: none"> _id: ObjectId("5f6c6a922f33581e1326391c") id: 1.0 Name: Ravi USN: 1BM17CS150 Age: 22.0 Branch: CSE Mobile: 7996026361.0 Email: ravikumar.cs17@bmsce.ac.in 	{ 8 fields }	Object
(2) ObjectId("5f6c6ad22f33581e1326391d") <ul style="list-style-type: none"> _id: ObjectId("5f6c6ad22f33581e1326391d") id: 2.0 Name: Ajit USN: 1BM17CS154 Age: 22.0 Branch: CSE Mobile: 777777777.0 Email: ajitjain.cs17@bmsce.ac.in 	{ 8 fields }	Object
(3) ObjectId("5f6c6c4d2f33581e1326391e")	{ 8 fields }	Object
(4) ObjectId("5f6c6c622f33581e1326391f")	{ 8 fields }	Object

Screenshot 1

Screenshot 2

BDA_LAB (3)

- System
 - admin
 - local
 - config

* db.Faculty.find() x

BDA_LAB localhost:27017 College

db.Faculty.find()

Faculty 0.002 sec.

Key	Value	Type
(1) ObjectId("5f6c6d3c2f33581e13263920") <ul style="list-style-type: none"> _id: ObjectId("5f6c6d3c2f33581e13263920") id: 1.0 Name: Abc Age: 35.0 Branch: CSE Mobile: 7777779999.0 Email: abc.cse@bmsce.ac.in 	{ 7 fields }	Object
(2) ObjectId("5f6c6d462f33581e13263921") <ul style="list-style-type: none"> _id: ObjectId("5f6c6d462f33581e13263921") id: 2.0 Name: Def Age: 35.0 Branch: ECE Mobile: 7777770000.0 Email: def.ece@bmsce.ac.in 	{ 7 fields }	Object
(3) ObjectId("5f6c6d542f33581e13263922")	{ 7 fields }	Object
(4) ObjectId("5f6c6d602f33581e13263923")	{ 7 fields }	Object

Screenshot 3

The screenshot shows a MongoDB IDE interface. On the left, a project tree for 'BDA_LAB (3)' is visible, with folders for 'System', 'admin', 'local', and 'config'. The main editor displays a query: `db.COE.find()`. Below the query, the results are shown in a table with columns 'Key', 'Value', and 'Type'. The results are for the 'COE' collection, with a query time of 0.002 sec. The table shows four documents, each with a unique ObjectID and various fields like '_id', 'id', 'Name', 'Age', 'Department', 'Mobile', and 'Email'.

Key	Value	Type
(1) ObjectId("5f6c6fbc2f33581e13263928")	{ 7 fields }	Object
_id	ObjectId("5f6c6fbc2f33581e13263928")	ObjectId
id	1.0	Double
Name	name1	String
Age	35.0	Double
Department	CSE	String
Mobile	887779999.0	Double
Email	name1@bmsce.ac.in	String
(2) ObjectId("5f6c6fcb2f33581e13263929")	{ 7 fields }	Object
_id	ObjectId("5f6c6fcb2f33581e13263929")	ObjectId
id	2.0	Double
Name	name2	String
Age	40.0	Double
Department	ISE	String
Mobile	897779999.0	Double
Email	name2@bmsce.ac.in	String
(3) ObjectId("5f6c6fd42f33581e1326392a")	{ 7 fields }	Object
(4) ObjectId("5f6c6fde2f33581e1326392b")	{ 7 fields }	Object

Screenshot 4

The screenshot shows a MongoDB IDE interface. On the left, a project tree for 'BDA_LAB (3)' is visible, with folders for 'System', 'admin', 'local', and 'config'. The main editor displays a query: `db.Library.find()`. Below the query, the results are shown in a table with columns 'Key', 'Value', and 'Type'. The results are for the 'Library' collection, with a query time of 0.002 sec. The table shows four documents, each with a unique ObjectID and various fields like '_id', 'id', 'BookName', 'Price', 'Subject', 'Author', and 'Year'.

Key	Value	Type
(1) ObjectId("5f6c6eac2f33581e13263924")	{ 7 fields }	Object
_id	ObjectId("5f6c6eac2f33581e13263924")	ObjectId
id	1.0	Double
BookName	book1	String
Price	350.0	Double
Subject	CSE	String
Author	Author1	String
Year	2012.0	Double
(2) ObjectId("5f6c6eb72f33581e13263925")	{ 7 fields }	Object
_id	ObjectId("5f6c6eb72f33581e13263925")	ObjectId
id	2.0	Double
BookName	book2	String
Price	250.0	Double
Subject	ISE	String
Author	Author2	String
Year	2011.0	Double
(3) ObjectId("5f6c6ebf2f33581e13263926")	{ 7 fields }	Object
(4) ObjectId("5f6c6ec82f33581e13263927")	{ 7 fields }	Object

Screenshot 5

The screenshot shows a database management interface with a left sidebar containing a tree view of the database structure. The main area displays the results of a query executed on the 'Admission' table. The query is `db.Admission.find()`. The results are shown in a table with columns 'Key', 'Value', and 'Type'. The 'Key' column shows the object ID and a list of fields. The 'Value' column shows the corresponding values for these fields. The 'Type' column shows the data type of each field.

Key	Value	Type
(1) ObjectId("5f6c70fe2f33581e1326392c")	{ 8 fields }	Object
_id	ObjectId("5f6c70fe2f33581e1326392c")	ObjectId
A_id	1.0	Double
FName	fname1	String
Lname	lname1	String
Type	CET	String
TenthPercent	90.0	Double
TwelfthPercent	95.0	Double
Place	placepqr	String
(2) ObjectId("5f6c711a2f33581e1326392d")	{ 8 fields }	Object
_id	ObjectId("5f6c711a2f33581e1326392d")	ObjectId
A_id	2.0	Double
FName	fname2	String
Lname	lname2	String
Type	CET	String
TenthPercent	91.0	Double
TwelfthPercent	94.0	Double
Place	placeabc	String
(3) ObjectId("5f6c71272f33581e1326392e")	{ 8 fields }	Object
(4) ObjectId("5f6c71302f33581e1326392f")	{ 8 fields }	Object
(5) ObjectId("5f6c71512f33581e13263930")	{ 8 fields }	Object

Screenshot 6

The screenshot shows a database management interface with a left sidebar containing a tree view of the database structure. The main area displays the results of a query executed on the 'Festival' table. The query is `db.Festival.find()`. The results are shown in a table with columns 'Key', 'Value', and 'Type'. The 'Key' column shows the object ID and a list of fields. The 'Value' column shows the corresponding values for these fields. The 'Type' column shows the data type of each field.

Key	Value	Type
(1) ObjectId("5f6c7c5d2f33581e13263931")	{ 7 fields }	Object
_id	ObjectId("5f6c7c5d2f33581e13263931")	ObjectId
id	1.0	Double
Ename	E1	String
Etype	Fun	String
dept	Math	String
coordi	abc	String
Mob	999999999.0	Double
(2) ObjectId("5f6c7c672f33581e13263932")	{ 7 fields }	Object
_id	ObjectId("5f6c7c672f33581e13263932")	ObjectId
id	2.0	Double
Ename	E2	String
Etype	Fun	String
dept	Math	String
coordi	pqr	String
Mob	888888888.0	Double
(3) ObjectId("5f6c7c702f33581e13263933")	{ 7 fields }	Object
(4) ObjectId("5f6c7c782f33581e13263934")	{ 7 fields }	Object