

ASSESSMENT-2

Reg.No:20BCR7141

Name:D.Harsha Vardhan

MongoDB:

Code:

```
test> use harsha
```

```
switched to db harsha
```

```
harsha>
```

```
db.Student.insertOne({'Rno':'1','Name':'Harsha','clg':'VIT','Campus':'AP'});
```

```
{
```

```
  acknowledged: true,
```

```
  insertedId: ObjectId("64733a36d92c74b15b099fac")
```

```
}
```

```
harsha>
```

```
db.Student.insertOne({'Rno':'2','Name':'Bharath','clg':'VIT','Campus':'Chennai'})
```

```
;
```

```
{
```

```
  acknowledged: true,
```

```
  insertedId: ObjectId("64733b1fd92c74b15b099fad")
```

```
}
```

```
harsha>
```

```
db.Student.insertOne({'Rno':'3','Name':'Harish','clg':'VIT','Campus':'AP'});
```

```
{
```

```
  acknowledged: true,
```

```
  insertedId: ObjectId("64733b3cd92c74b15b099fae")
```

```
}
harsha> db.Student.find();
[
  {
    _id: ObjectId("64733a36d92c74b15b099fac"),
    Rno: '1',
    Name: 'Harsha',
    clg: 'VIT',
    Campus: 'AP'
  },
  {
    _id: ObjectId("64733b1fd92c74b15b099fad"),
    Rno: '2',
    Name: 'Bharath',
    clg: 'VIT',
    Campus: 'Chennai'
  },
  {
    _id: ObjectId("64733b3cd92c74b15b099fae"),
    Rno: '3',
    Name: 'Harish',
    clg: 'VIT',
    Campus: 'AP'
  }
]
harsha> db.Student.update({Name:'Bharath'},{$set:{Name:'Vardhan'}});
```

DeprecationWarning: Collection.update() is deprecated. Use updateOne, updateMany, or bulkWrite.

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

```
harsha> db.Student.find();
```

```
[  
  {  
    _id: ObjectId("64733a36d92c74b15b099fac"),  
    Rno: '1',  
    Name: 'Harsha',  
    clg: 'VIT',  
    Campus: 'AP'  
  },  
  {  
    _id: ObjectId("64733b1fd92c74b15b099fad"),  
    Rno: '2',  
    Name: 'Vardhan',  
    clg: 'VIT',  
    Campus: 'Chennai'  
  },  
  {  
    _id: ObjectId("64733b3cd92c74b15b099fae"),
```

```

    Rno: '3',
    Name: 'Harish',
    clg: 'VIT',
    Campus: 'AP'
  }
]
harsha> db.Student.drop();
true

```

Creation:

```

The server generated these startup warnings when booting
2023-05-28T16:04:38.003+05:30: Access control is not enabled for the database. Read and write access to data and configuration is unrestricted
-----
test> use harsha
switched to db harsha
harsha> db.Student.insertOne({'Rno':'1','Name':'Harsha','clg':'VIT','Campus':'AP'});
{
  acknowledged: true,
  insertedId: ObjectId("64733a36d92c74b15b099fac")
}
harsha> db.Student.insertMany({'Rno':'1','Name':'Harsha','clg':'VIT','Campus':'AP'},);
MongoInvalidArgumentError: Argument "docs" must be an array of documents
harsha> db.Student.insertMany({'Rno':'2','Name':'Bharath','clg':'VIT','Campus':'Chennai'},{'Rno':'2','Name':'Harish','clg':'VIT','Campus':'AP'});
MongoInvalidArgumentError: Argument "docs" must be an array of documents
harsha> db.Student.insertOne({'Rno':'2','Name':'Bharath','clg':'VIT','Campus':'Chennai'});
{
  acknowledged: true,
  insertedId: ObjectId("64733b1fd92c74b15b099fad")
}
harsha> db.Student.insertOne({'Rno':'3','Name':'Harish','clg':'VIT','Campus':'AP'});
{
  acknowledged: true,
  insertedId: ObjectId("64733b3cd92c74b15b099fae")
}
harsha> db.Student.find();
[
  {
    _id: ObjectId("64733a36d92c74b15b099fac"),
    Rno: '1',
    Name: 'Harsha',
    clg: 'VIT',
    Campus: 'AP'
  },
  {
    _id: ObjectId("64733b1fd92c74b15b099fad"),
    Rno: '2',
    Name: 'Bharath',
    clg: 'VIT',
    Campus: 'Chennai'
  },
  {
    _id: ObjectId("64733b3cd92c74b15b099fae"),
    Rno: '3',
    Name: 'Harish',
    clg: 'VIT',
    Campus: 'AP'
  }
]

```

Updation:

```

harsha> db.Student.update({Name:'Bharath'},{$set:{Name:'Vardhan'}});
DeprecationWarning: Collection.update() is deprecated. Use updateOne, updateMany, or bulkWrite.
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
harsha> db.Student.find();
[
  {
    _id: ObjectId("64733a36d92c74b15b099fac"),
    Rno: '1',
    Name: 'Harsha',
    clg: 'VIT',
    Campus: 'AP'
  },
  {
    _id: ObjectId("64733b1fd92c74b15b099fad"),
    Rno: '2',
    Name: 'Vardhan',
    clg: 'VIT',
    Campus: 'Chennai'
  },
  {
    _id: ObjectId("64733b3cd92c74b15b099fae"),
    Rno: '3',
    Name: 'Harish',
    clg: 'VIT',
    Campus: 'AP'
  }
]

```

Deletion:

```

harsha> db.Student.drop();
true

```

MySQL:

Code:

```

CREATE TABLE `test1`.`department` (
  `sno` INT NOT NULL,
  `departmentId` INT NOT NULL,
  `departmentName` VARCHAR(45) NOT NULL,
  PRIMARY KEY (`departmentId`),
  UNIQUE INDEX `departmentId_UNIQUE` (`departmentId` ASC) VISIBLE);

```

```

CREATE TABLE test1.FACULTY (SNO INT,DEPARTMENTID INT,FACULTYID
INT,FACULTYNAME VARCHAR(2),PRIMARY KEY (SNO),
FOREIGN KEY(DEPARTMENTID) REFERENCES DEPARTMENT(DEPARTMENTID));

CREATE TABLE test1.STUDENT(SNO INT,DEPARTMENTID INT,STUDENTID
INT,STUDENTNAME VARCHAR(2),
PRIMARY KEY(SNO),FOREIGN KEY(DEPARTMENTID) REFERENCES
DEPARTMENT(DEPARTMENTID));

INSERT INTO TEST1.DEPARTMENT VALUES(1,1,'CSE');

SELECT * FROM TEST1.DEPARTMENT;

INSERT INTO TEST1.FACULTY VALUES(1,1,1,'AB');

SELECT * FROM TEST1.FACULTY;

INSERT INTO TEST1.STUDENT VALUES(1,1,1,'XY');

SELECT * FROM TEST1.STUDENT;

SELECT * FROM TABLE1 INNER JOIN TABLE2 ON
TABLE1.MATCHINGCOLUMN=TABLE2.MATCHINGCOLUMN

SELECT * FROM TABLE1 JOIN TABLE2 ON
TABLE1.MATCHINGCOLUMN=TABLE2.MATCHINGCOLUMN

SELECT * FROM TABLE1 LEFT JOIN TABLE2 ON
TABLE1.MATCHINGCOLUMN=TABLE2.MATCHINGCOLUMN

SELECT * FROM TABLE1 RIGHT JOIN TABLE2 ON
TABLE1.MATCHINGCOLUMN=TABLE2.MATCHINGCOLUMN;

SELECT * FROM TEST1.DEPARTMENT RIGHT JOIN TEST1.FACULTY ON
DEPARTMENT.DEPARTMENTID=FACULTY.DEPARTMENTID;

SELECT * FROM TABLE1 FULL JOIN TABLE 2

```

Output:

File Edit View Query Database Server Tools Scripting Help

Navigator SQL File 3* university - Table Limit to 1000 rows

1 create database assignnet2;
2 Insert into assignnet2.university(sno,Student,Branch,Address,phoneno) values(1,'Harika','CSE','Vijayawada','9845735674');
3 Insert into assignnet2.university(sno,Student,Branch,Address,phoneno) values(2,'Ram','CSE','Rajamundry','9456379832');
4 Insert into assignnet2.university(sno,Student,Branch,Address,phoneno) values(3,'sarat','MECH','Hyderabad','7236789346');
5 Insert into assignnet2.university(sno,Student,Branch,Address,phoneno) values(4,'Heera','ECE','Banglore','8653964278');
6 Insert into assignnet2.university(sno,Student,Branch,Address,phoneno) values(5,'charan','BBA','Tamilnadu','7831278354');
7 select * from assignnet2.university;

Result Grid Filter Rows Edit Export/Import Wrap Cell Contents

sno	Student	Branch	Address	phoneno
3	sarat	MECH	Hyderabad	7236789346
5	charan	BBA	Tamilnadu	7831278354
4	Heera	ECE	Banglore	8653964278
2	Ram	CSE	Rajamundry	9456379832
1	Harika	CSE	Vijayawada	9845735674

Administration Schemas

Information

No object selected

Output

Action Output

#	Time	Action	Message
12	13:30:10	Insert into assignnet2.university(sno,Student,Branch,Address,phoneno) values(1,'Harika','CSE','Vijayawada','9845735674');	1 row(s) affected
13	13:31:17	Insert into assignnet2.university(sno,Student,Branch,Address,phoneno) values(2,'Ram','CSE','Rajamundry','9456379832');	1 row(s) affected
14	13:33:16	Insert into assignnet2.university(sno,Student,Branch,Address,phoneno) values(3,'sarat','MECH','Hyderabad','7236789346');	1 row(s) affected
15	13:33:23	Insert into assignnet2.university(sno,Student,Branch,Address,phoneno) values(4,'Heera','ECE','Banglore','8653964278');	1 row(s) affected
16	13:34:18	Insert into assignnet2.university(sno,Student,Branch,Address,phoneno) values(5,'charan','BBA','Tamilnadu','7831278354');	1 row(s) affected
17	13:34:43	select * from assignnet2.university LIMIT 0, 1000	5 row(s) returned

Object Info Session

Navigator SQL File 3* university - Table Limit to 1000 rows

1 create database assignnet2;
2 Insert into assignnet2.university(sno,Student,Branch,Address,phoneno) values(1,'Harika','CSE','Vijayawada','9845735674');
3 Insert into assignnet2.university(sno,Student,Branch,Address,phoneno) values(2,'Ram','CSE','Rajamundry','9456379832');
4 Insert into assignnet2.university(sno,Student,Branch,Address,phoneno) values(3,'sarat','MECH','Hyderabad','7236789346');
5 Insert into assignnet2.university(sno,Student,Branch,Address,phoneno) values(4,'Heera','ECE','Banglore','8653964278');
6 Insert into assignnet2.university(sno,Student,Branch,Address,phoneno) values(5,'charan','BBA','Tamilnadu','7831278354');
7 select * from assignnet2.university;
8 Update assignnet2.university set Branch='BBA' where phoneno='7236789346';
9 DELETE from assignnet2.university where phoneno='9456379832';

Result Grid Filter Rows Edit Export/Import Wrap Cell Contents

sno	Student	Branch	Address	phoneno
3	sarat	BBA	Hyderabad	7236789346
5	charan	BBA	Tamilnadu	7831278354
4	Heera	ECE	Banglore	8653964278
1	Harika	CSE	Vijayawada	9845735674

Administration Schemas

Information

No object selected

Output

Action Output

#	Time	Action	Message
21	13:44:47	Update assignnet2.university set Branch='BBA' where phoneno='7831278354'	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0
22	13:44:51	select * from assignnet2.university LIMIT 0, 1000	5 row(s) returned
23	13:45:30	Update assignnet2.university set Branch='BBA' where phoneno='7236789346'	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0
24	13:45:35	select * from assignnet2.university LIMIT 0, 1000	5 row(s) returned
25	13:51:45	DELETE from assignnet2.university where phoneno='9456379832'	1 row(s) affected
26	13:51:51	select * from assignnet2.university LIMIT 0, 1000	4 row(s) returned

Object Info Session

Filter objects

assignment

- Tables
- Views
- Stored Procedures
- Functions

assignment2

- Tables
 - child
 - department
 - student
 - faculty
 - university
- Views
- Stored Procedures
- Functions

sys

Administration Schemas

No object selected

23 • Insert into assignment2.FACULTY VALUES (4,20,280,'sheela');

24 • Insert into assignment2.FACULTY VALUES (5,2,450,'Nareesh');

25 • select * from assignment2.FACULTY ORDER BY SNO;

26

27 • SELECT * FROM assignment2.department JOIN assignment2.FACULTY ON DEPARTMENT.DEPARTMENTID=FACULTY.DEPARTMENTID;

Result Grid

sno	departmentid	departmentName	SNO	DEPARTMENTID	FACULTYID	FACULTYNAME
1	1	CSE	1	1	203	Rajesh
1	1	CSE	2	1	300	chandu
3	2	MECH	5	2	450	Nareesh
2	3	ECE	3	3	203	Rakesh
4	20	MATH	4	20	280	sheela

Result 10 x

Output

Action Output

#	Time	Action	Message
50	15:33:00	Insert into assignment2.CHILD VALUES (1,1,7910,Prashanth)	1 row(s) affected
51	15:33:03	Insert into assignment2.CHILD VALUES (2,2,6790,Ramu)	1 row(s) affected
52	15:33:42	select * from assignment2.FACULTY ORDER BY SNO LIMIT 0, 1000	Error Code: 1049. Unknown database 'assignment2'
53	15:34:22	select * from assignment2.FACULTY ORDER BY SNO LIMIT 0, 1000	5 row(s) returned
54	15:36:55	SELECT * FROM assignment2.department JOIN assignment2.FACULTY ON DEPARTMENT.DEPARTMENTID=FACULTY.DEPARTMENTID;	5 row(s) returned

Library SQL File 3* university - Table department - Table

23 • Insert into assignment2.FACULTY VALUES (4,20,280,'sheela');

24 • Insert into assignment2.FACULTY VALUES (5,2,450,'Nareesh');

25 • select * from assignment2.FACULTY ORDER BY SNO;

26

27 • SELECT * FROM assignment2.department LEFT JOIN assignment2.FACULTY ON DEPARTMENT.DEPARTMENTID=FACULTY.DEPARTMENTID;

Result Grid

sno	departmentid	departmentName	SNO	DEPARTMENTID	FACULTYID	FACULTYNAME
1	1	CSE	1	1	203	Rajesh
1	1	CSE	2	1	300	chandu
3	2	MECH	5	2	450	Nareesh
2	3	ECE	3	3	203	Rakesh
4	20	MATH	4	20	280	sheela
5	23	ENG				

Result 11 x

Output

Action Output

#	Time	Action	Message
51	15:33:03	Insert into assignment2.CHILD VALUES (2,2,6790,Ramu)	1 row(s) affected
52	15:33:42	select * from assignment2.FACULTY ORDER BY SNO LIMIT 0, 1000	Error Code: 1049. Unknown database 'assignment2'
53	15:34:22	select * from assignment2.FACULTY ORDER BY SNO LIMIT 0, 1000	5 row(s) returned
54	15:36:55	SELECT * FROM assignment2.department JOIN assignment2.FACULTY ON DEPARTMENT.DEPARTMENTID=FACULTY.DEPARTMENTID;	5 row(s) returned
55	15:36:56	SELECT * FROM assignment2.department LEFT JOIN assignment2.FACULTY ON DEPARTMENT.DEPARTMENTID=FACULTY.DEPARTMENTID;	5 row(s) returned

Result Grid

Form Editor

Field Types

Query Stats

Read Only

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

assignment

Tables

Views

Stored Procedures

Functions

assignment2

Tables

child

department

student

faculty

university

Views

Stored Procedures

Functions

sys

Query 1 - SQL File 3* university - Table department - Table

Limit to 1000 rows

```
5 * Insert into assignment2.university(sno,Student,Branch,Address,phoneno) values(4,'Heera','ECE','Banglore','8653964278');
6 * Insert into assignment2.university(sno,Student,Branch,Address,phoneno) values(5,'charan','BBA','Tamilnadu','7831278354');
7 * select * from assignment2.university;
8 * Update assignment2.university set Branch='BBA' where phoneno='7236789346';
9 * DELETE from assignment2.university where phoneno='9456379832';
10 * create TABLE assignment2.FACULTY(SNO INT,DEPARTMENTID INT,FACULTYID INT,FACULTYNAME VARCHAR(25), PRIMARY KEY(SNO),
11 FOREIGN KEY(DEPARTMENTID) REFERENCES DEPARTMENT(DEPARTMENTID));
12 * Insert into assignment2.DEPARTMENT VALUES (1,1,'CSE');
13 * Insert into assignment2.DEPARTMENT VALUES (2,3,'ECE');
14 * Insert into assignment2.DEPARTMENT VALUES (3,2,'MECH');
15 * Insert into assignment2.DEPARTMENT VALUES (4,20,'MATH');
16 * Insert into assignment2.DEPARTMENT VALUES (5,23,'ENG');
17 * select * from assignment2.department order by sno;
```

Result Grid

sno	departmentid	departmentName
1	1	CSE
2	3	ECE
3	2	MECH
4	20	MATH
5	23	ENG

department 8 x

Output

Action Output

#	Time	Action	Message
37	15:21:37	select * from assignment2.department LIMIT 0, 1000	5 row(s) returned
38	15:22:07	select * from assignment2.department order by sno LIMIT 0, 1000	5 row(s) returned
39	15:23:59	reate TABLE assignment2.STUDENT(SNO INT,DEPARTMENTID INT,STUDENTID INT,STUDENTYNAME	Error Code: 1064. You have an error in your SQL syntax; check the manual that correspond
40	15:24:58	create TABLE assignment2.STUDENT(SNO INT,DEPARTMENTID INT,STUDENTID INT,STUDENTYNAME	Error Code: 1050. Table 'student' already exists
41	15:25:24	create TABLE assignment2.CHILD(SNO INT,DEPARTMENTID INT,STUDENTID INT,STUDENTYNAME VA	0 row(s) affected
42	15:26:02	select * from assignment2.department order by sno LIMIT 0, 1000	5 row(s) returned

Object Info

Session

Navigator

SCHEMAS

Filter objects

assignment

Tables

Views

Stored Procedures

Functions

assignment2

Tables

Views

Stored Procedures

Functions

sys

Query 1 - SQL File 3* university - Table

Limit to 1000 rows

```
1 * create database assignment2;
2 * Insert into assignment2.university(sno,Student,Branch,Address,phoneno) values(1,'Harika','CSE','Vijayawada','9845735674');
3 * Insert into assignment2.university(sno,Student,Branch,Address,phoneno) values(2,'Ram','CSE','Rajamundry','9456379832');
4 * Insert into assignment2.university(sno,Student,Branch,Address,phoneno) values(3,'sarat','MECH','Hyderabad','7236789346');
5 * Insert into assignment2.university(sno,Student,Branch,Address,phoneno) values(4,'Heera','ECE','Banglore','8653964278');
6 * Insert into assignment2.university(sno,Student,Branch,Address,phoneno) values(5,'charan','BBA','Tamilnadu','7831278354');
7 * select * from assignment2.university;
8 * Update assignment2.university set Branch='ECE' where phoneno='7831278354';
```

Result Grid

sno	Student	Branch	Address	phoneno
3	sarat	MECH	Hyderabad	7236789346
5	charan	ECE	Tamilnadu	7831278354
4	Heera	ECE	Banglore	8653964278
2	Ram	CSE	Rajamundry	9456379832
1	Harika	CSE	Vijayawada	9845735674

university 2 x

Output

Action Output

#	Time	Action	Message
15	13:33:23	Insert into assignment2.university(sno,Student,Branch,Address,phoneno) values(4,'Heera','ECE','Banglore','86...	1 row(s) affected
16	13:34:18	Insert into assignment2.university(sno,Student,Branch,Address,phoneno) values(5,'charan','BBA','Tamilnadu','7...	1 row(s) affected
17	13:34:43	select * from assignment2.university LIMIT 0, 1000	5 row(s) returned
18	13:42:42	Update assignment2.university set Branch='ECE' where Student='charan'	Error Code: 1175. You are using safe update mode and you tried to update a table without a W
19	13:43:18	Update assignment2.university set Branch='ECE' where phoneno='7831278354'	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0
20	13:43:25	select * from assignment2.university LIMIT 0, 1000	5 row(s) returned

Object Info

Session

Filter objects

assignment

Tables

Views

Stored Procedures

Functions

assignmentnet2

Tables

child

department

student

faculty

university

Views

Stored Procedures

Functions

sys

Administration

Schemas

Information

No object selected

Tables

Views

Stored Procedures

Functions

assignmentnet2

Tables

child

department

student

faculty

university

Views

Stored Procedures

Functions

sys

Administration

Schemas

Information

Schema: assignmentnet2

23

Insert into assignmentnet2.FACULTY VALUES (4,20,280,'sheela');

24

Insert into assignmentnet2.FACULTY VALUES (5,2,450,'Naresh');

25

select * from assignmentnet2.FACULTY ORDER BY SNO;

26

27

SELECT * FROM assignmentnet2.department RIGHT JOIN assignmentnet2.FACULTY ON DEPARTMENT.DEPARTMENTID=FACTULTY.DEPARTMENTID;

Result Grid

Filter Rows

Export

Wrap Cell Contents

sno	departmentid	departmentName	SNO	DEPARTMENTID	FACULTYID	FACULTYNAME
1	1	CSE	1	1	203	Rajesh
1	1	CSE	2	1	300	chandu
2	3	ECE	3	3	203	Rakesh
4	20	MATH	4	20	280	sheela
3	2	MECH	5	2	450	Naresh

Result 12

Output

25

select * from assignmentnet2.FACULTY ORDER BY SNO;

26

27

SELECT * FROM assignmentnet2.department FULL JOIN assignmentnet2.FACULTY

Result Grid

Filter Rows

Export

Wrap Cell Contents

sno	departmentid	departmentName	SNO	DEPARTMENTID	FACULTYID	FACULTYNAME
5	23	ENG	1	1	203	Rajesh
4	20	MATH	1	1	203	Rajesh
2	3	ECE	1	1	203	Rajesh
3	2	MECH	1	1	203	Rajesh
1	1	CSE	1	1	203	Rajesh
5	23	ENG	2	1	300	chandu
4	20	MATH	2	1	300	chandu
2	3	ECE	2	1	300	chandu
3	2	MECH	2	1	300	chandu
1	1	CSE	2	1	300	chandu
5	23	ENG	3	3	203	Rakesh
4	20	MATH	3	3	203	Rakesh
2	3	ECE	3	3	203	Rakesh
3	2	MECH	3	3	203	Rakesh
1	1	CSE	3	3	203	Rakesh
5	23	ENG	4	20	280	sheela
4	20	MATH	4	20	280	sheela
2	3	ECE	4	20	280	sheela
3	2	MECH	4	20	280	sheela
1	1	CSE	4	20	280	sheela
5	23	ENG	5	2	450	Naresh
4	20	MATH	5	2	450	Naresh

Result 13

Output

Action Output

#

Time

Action

Message