

VITAP UNIVERSITY

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SMARTBRIDGE EXTERNSHIP

Modern Application Development (Java Spring Boot)

ASSIGNMENT – 2

1. Create, Update, Delete commands in MySQL

To create table in mysql:

```
MySQL 
1 CREATE TABLE student (
2   Id INTEGER PRIMARY KEY,
3   name TEXT NOT NULL,
4   dept TEXT NOT NULL
5 );
6
7 -- insert
8 INSERT INTO student VALUES (1, 'Siddartha', 'mtse');
9 INSERT INTO student VALUES (2, 'Rohit', 'btech');
10 INSERT INTO student VALUES (3, 'Tharun', 'btech');
11 INSERT INTO student VALUES (4, 'Vivek', 'mtse');
12
13 -- fetch
14 SELECT * FROM student;
```

Output:

Output

| Id | name | dept |
|----|-----------|-------|
| 1 | Siddartha | mtse |
| 2 | Rohit | btech |
| 3 | Tharun | btech |
| 4 | Vivek | mtse |

[Execution complete with exit code 0]

To Update in Mysql:

MySQL

```
1 CREATE TABLE student (  
2   Id INTEGER PRIMARY KEY,  
3   name TEXT NOT NULL,  
4   dept TEXT NOT NULL  
5 );  
6  
7 -- insert  
8 INSERT INTO student VALUES (1, 'Siddartha', 'mtse');  
9 INSERT INTO student VALUES (2, 'Rohit', 'btech');  
10 INSERT INTO student VALUES (3, 'Tharun', 'btech');  
11 INSERT INTO student VALUES (4, 'Vivek', 'mtse');  
12  
13 -- fetch  
14 SELECT * FROM student;  
15  
16 -- update  
17 update student set dept="mtse" where Id=2;  
18 SELECT * FROM student;
```

Output:


Output

| Id | name | dept |
|----|-----------|-------|
| 1 | Siddartha | mtse |
| 2 | Rohit | btech |
| 3 | Tharun | btech |
| 4 | Vivek | mtse |

| Id | name | dept |
|----|-----------|-------|
| 1 | Siddartha | mtse |
| 2 | Rohit | mtse |
| 3 | Tharun | btech |
| 4 | Vivek | mtse |

[Execution complete with exit code 0]

To Delete in Mysql:


 MySQL ▾



```
1 CREATE TABLE student (  
2   Id INTEGER PRIMARY KEY,  
3   name TEXT NOT NULL,  
4   dept TEXT NOT NULL  
5 );  
6  
7 -- insert  
8 INSERT INTO student VALUES (1, 'Siddartha', 'mtse');  
9 INSERT INTO student VALUES (2, 'Rohit', 'btech');  
10 INSERT INTO student VALUES (3, 'Tharun', 'btech');  
11 INSERT INTO student VALUES (4, 'Vivek', 'mtse');  
12  
13 -- fetch  
14 SELECT*FROM student;  
15  
16 -- update  
17 update student set dept="mtse" where Id=2;  
18 SELECT * FROM student;  
19 |  
20 -- delete  
21 delete from student where Id=2;  
22 SELECT * FROM student;
```

Output:

 Run

 Save

Output

| Id | name | dept |
|----|-----------|-------|
| 1 | Siddartha | mtse |
| 2 | Rohit | btech |
| 3 | Tharun | btech |
| 4 | Vivek | mtse |



| Id | name | dept |
|----|-----------|-------|
| 1 | Siddartha | mtse |
| 2 | Rohit | mtse |
| 3 | Tharun | btech |
| 4 | Vivek | mtse |

| Id | name | dept |
|----|-----------|-------|
| 1 | Siddartha | mtse |
| 3 | Tharun | btech |
| 4 | Vivek | mtse |

[Execution complete with exit code 0]

2. Create table and perform joins in mysql

Creating a table and performing joins in mysql:

```
MySQL  
1  -- create
2  CREATE TABLE student (
3      Id INTEGER PRIMARY KEY,
4      name TEXT NOT NULL,
5      dept TEXT NOT NULL
6  );
7
8  -- insert
9  INSERT INTO student VALUES (1, 'Siddartha', 'mtse');
10 INSERT INTO student VALUES (2, 'Rohit', 'btech');
11 INSERT INTO student VALUES (3, 'Tharun', 'btech');
12 INSERT INTO student VALUES (4, 'Vivek', 'mtse');
13
14 -- fetch
15 SELECT * FROM student;
16 -- create
17 CREATE TABLE course (
18     Id INTEGER PRIMARY KEY,
19     cname TEXT NOT NULL
20 );
21
22 -- insert
23 INSERT INTO course VALUES (1, 'java');
24 INSERT INTO course VALUES (2, 'mysql');
25
26 -- fetch
27 select * from course;
28
29 -- inner join
30 select student.name, course.cname from student inner join course on student.Id=course.Id;
31
32 -- left join
33 select student.name, course.cname from student left join course on student.Id=course.Id;
34
35 -- right join
36 select student.name, course.cname from student right join course on student.Id=course.Id;
37
38 -- cross join
39 select name from student crosss join course;
```

Output:

▶ Run

📁 Save

Output

```
Id      name      dept
1       Siddartha  mtse
2       Rohit      btech
3       Tharun     btech
4       Vivek      mtse
```

```
Id      cname
1       java
2       mysql
name    cname
Siddartha  java
Rohit      mysql
name      cname
Siddartha  java
Rohit      mysql
Tharun     NULL
Vivek      NULL
```

```
name    cname
Siddartha  java
Rohit      mysql
name
Siddartha
Siddartha
Rohit
Rohit
Tharun
Tharun
Vivek
Vivek
```

[Execution complete with exit code 0]

3. Create, Update, delete commands in MongoDB

Creating in MongoDB:

```
MongoDB ⓘ  
1 db.student.insertMany([  
2   {Id: 1, name: 'Siddartha', dept: 'btech' },  
3   {Id: 2, name: 'Rohit', dept: 'mtse' },  
4   {Id: 3, name: 'Tharun', dept: 'mtse' },  
5   {Id: 4, name: 'Vivek', dept: 'btech' }  
6 ]);  
7  
8 db.student.find();
```

Output:

```
Run Save  
Output  
mycompiler_mongodb> ... .. {  
  acknowledged: true,  
  insertedIds: {  
    '0': ObjectId("64744a078f9bbf24375fe64b"),  
    '1': ObjectId("64744a078f9bbf24375fe64c"),  
    '2': ObjectId("64744a078f9bbf24375fe64d"),  
    '3': ObjectId("64744a078f9bbf24375fe64e")  
  }  
}  
mycompiler_mongodb>  
mycompiler_mongodb> [  
  {  
    _id: ObjectId("64744a078f9bbf24375fe64b"),  
    Id: 1,  
    name: 'Siddartha',  
    dept: 'btech'  
  },  
  {  
    _id: ObjectId("64744a078f9bbf24375fe64c"),  
    Id: 2,  
    name: 'Rohit',  
    dept: 'mtse'  
  },  
  {  
    _id: ObjectId("64744a078f9bbf24375fe64d"),  
    Id: 3,  
    name: 'Tharun',  
    dept: 'mtse'  
  },  
  {  
    _id: ObjectId("64744a078f9bbf24375fe64e"),  
    Id: 4,  
    name: 'Vivek',  
    dept: 'btech'  
  }  
]
```

```
    },
    {
      _id: ObjectId("64744a078f9bbf24375fe64c"),
      Id: 2,
      name: 'Rohit',
      dept: 'mtse'
    },
    {
      _id: ObjectId("64744a078f9bbf24375fe64d"),
      Id: 3,
      name: 'Tharun',
      dept: 'mtse'
    },
    {
      _id: ObjectId("64744a078f9bbf24375fe64e"),
      Id: 4,
      name: 'Vivek',
      dept: 'btech'
    }
  ]
}
```

```
]
mycompiler_mongodb>
```

[Execution complete with exit code 0]

Updating in MangoDB:

 MongoDB ▼



```
1 db.student.insertMany([
2   {Id: 1, name: 'Siddartha', dept: 'btech' },
3   {Id: 2, name: 'Rohit', dept: 'mtse' },
4   {Id: 3, name: 'Tharun', dept: 'mtse' },
5   {Id: 4, name: 'Vivek', dept: 'btech' }
6 ]);
7
8 db.student.find();
9
10 db.student.updateOne( { Id: 1 }, { $set: { dept:"mtse"}})
```

Output:

Output

```
{
  _id: ObjectId("64744ab9e7f59c88fc667f3e"),
  Id: 4,
  name: 'Vivek',
  dept: 'btech'
}
]
mycompiler_mongodb>
mycompiler_mongodb> {
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
mycompiler_mongodb>

[Execution complete with exit code 0]
```

Delete in MangoDB:

MongoDB  

```
1 db.student.insertMany([
2   {Id: 1, name: 'Siddartha', dept: 'btech' },
3   {Id: 2, name: 'Rohit', dept: 'mtse' },
4   {Id: 3, name: 'Tharun', dept: 'mtse' },
5   {Id: 4, name: 'Vivek', dept: 'btech' }
6 ]);
7
8 db.student.find();
9
10 db.student.remove({'Id':2})
11 db.student.find();
```


Output:

Output

```
mycompiler_mongodb>
mycompiler_mongodb> DeprecationWarning: Collection.ren
{ acknowledged: true, deletedCount: 1 }
mycompiler_mongodb> [
  {
    _id: ObjectId("64744b35c9157c547a971625"),
    Id: 1,
    name: 'Siddartha',
    dept: 'btech'
  },
  {
    _id: ObjectId("64744b35c9157c547a971627"),
    Id: 3,
    name: 'Tharun',
    dept: 'mtse'
  },
  {
    _id: ObjectId("64744b35c9157c547a971628"),
    Id: 4,
    name: 'Vivek',
    dept: 'btech'
  }
]
mycompiler_mongodb>

[Execution complete with exit code 0]
```