

# Modern Application Development with Spring Boot

## Second Week Assignment

20MIC0008

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Qn 1:

Code:

```
create database CollegeSpring;
```

```
use CollegeSpring;
```

```
create table employees (
```

```
    id int primary key auto_increment,
```

```
    emp_name varchar(50),
```

```
    dept varchar(50),
```

```
    salary int(10)
```

```
);
```

```
insert into employees values(1,"user1","Health",33000);
```

```
insert into employees values(3,"user2","Defense",50000);
```

```
insert into employees values(4,"user3","Finance",45000);
```

```
insert into employees values(8,"user4","Management",65600);
```

```
insert into employees values(5,"user5","Marketing",75400);
```

```
insert into employees values(2,"user6","IT",80000);
```

```
select * from employees;
```

```
desc employees;
```

```
update employees set salary = salary+3000 where dept = "Health";
```

```
select * from employees;
```

```
delete from employees where salary>46465;
```

select \* from employees;

Screenshot:

The image displays three sequential screenshots of a database query result grid, showing the 'employees' table. Each screenshot includes a toolbar with options like 'Filter Rows', 'Edit', and 'Export/Import', and a sidebar with 'Result Grid', 'Form Editor', and 'Field Types'.

**Screenshot 1: Full Table**

	id	emp_name	dept	salary
▶	1	user1	Health	33000
	2	user6	IT	80000
	3	user2	Defense	50000
	4	user3	Finance	45000
	5	user5	Marketing	75400
	8	user4	Management	65600
*	NULL	NULL	NULL	NULL

**Screenshot 2: 'id' Column Highlighted**

	id	emp_name	dept	salary
▶	1	user1	Health	36000
	2	user6	IT	80000
	3	user2	Defense	50000
	4	user3	Finance	45000
	5	user5	Marketing	75400
	8	user4	Management	65600
*	NULL	NULL	NULL	NULL

**Screenshot 3: 'id' and 'dept' Columns Highlighted**

	id	emp_name	dept	salary
▶	1	user1	Health	36000
	4	user3	Finance	45000
*	NULL	NULL	NULL	NULL

Qn 2:

Code:

```
create database CollegeSpring2;
```

```
use CollegeSpring2;
```

```
create table employees (  
    id int primary key auto_increment,  
    emp_name varchar(50),  
    dept_id int(5),  
    salary int(10)  
);
```

```
insert into employees values(1,"user1",11111,33000);
```

```
insert into employees values(3,"user2",11112,50000);
```

```
insert into employees values(2,"user6",11116,80000);
```

```
create table department(  
    id int primary key,  
    dept_name varchar(25)  
);
```

```
insert into department values(11111,"Finance");
```

```
insert into department values(11112,"Management");
```

```
insert into department values(11116,"IT");
```

```
desc employees;
```

```
select employees.emp_name,department.dept_name as Department_Name from employees join  
department on employees.dept_id = department.id;
```

Screenshot:

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	Field	Type	Null	Key	Default	Extra
▶	id	int	NO	PRI	NULL	auto_increment
	emp_name	varchar(50)	YES		NULL	
	dept_id	int	YES		NULL	
	salary	int	YES		NULL	

Result Grid

Form Editor

Field Types

Result 4 × Result 5

Read Only

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	emp_name	Department_Name
▶	user1	Finance
	user6	IT
	user2	Management

Result Grid

Form Editor

Field Types

Result 4

Result 5 ×

Read Only

Qn 3:

Code and results:

```

db.createCollection("new_mongo_try")

{ ok: 1 }

db.new_mongo_try.insertOne({id:1})

{
  acknowledged: true,
  insertedId: ObjectId("647311e7ec1cb43763c0a02e")
}

db.new_mongo_try.updateOne({id:1},{ $set:{id:5}})

{
  acknowledged: true,
  insertedId: null,

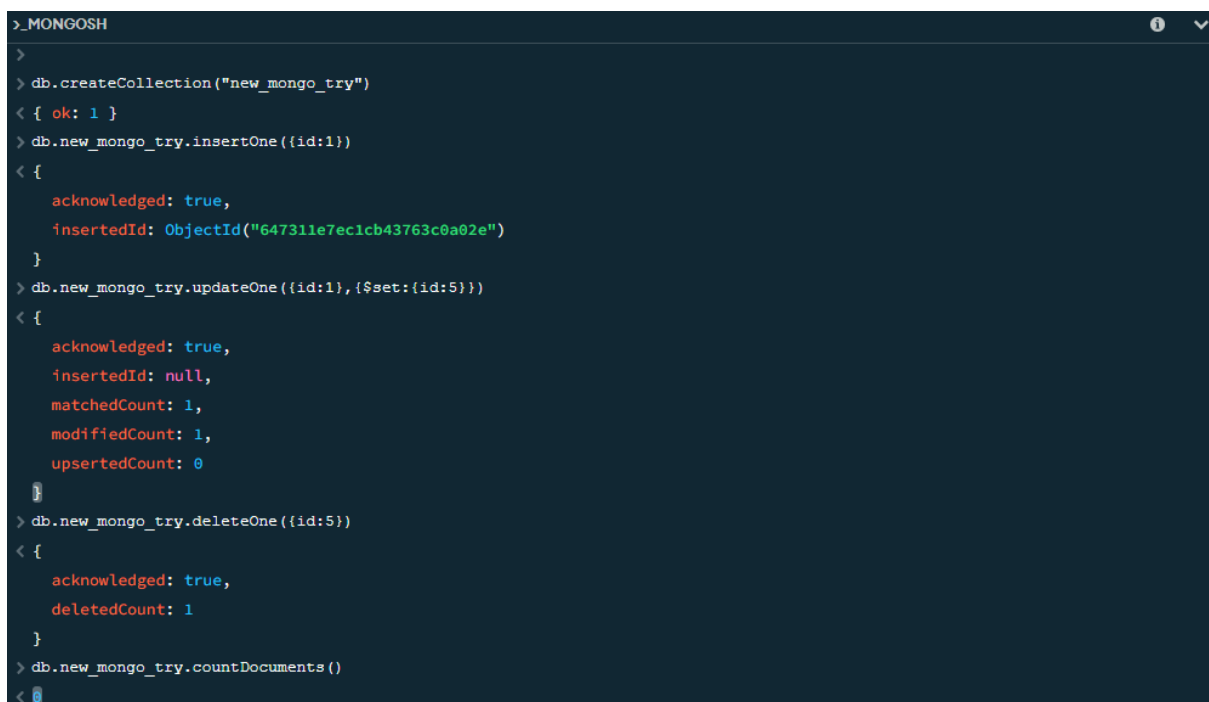
```

```
    matchedCount: 1,
    modifiedCount: 1,
    upsertedCount: 0
  }
  db.new_mongo_try.deleteOne({id:5})

  {
    acknowledged: true,
    deletedCount: 1
  }
  db.new_mongo_try.countDocuments()

  0
```

Screenshot:



```
>_MONGOSH
>
> db.createCollection("new_mongo_try")
< { ok: 1 }
> db.new_mongo_try.insertOne({id:1})
< {
  acknowledged: true,
  insertedId: ObjectId("647311e7ec1cb43763c0a02e")
}
> db.new_mongo_try.updateOne({id:1},{set:{id:5}})
< {
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
> db.new_mongo_try.deleteOne({id:5})
< {
  acknowledged: true,
  deletedCount: 1
}
> db.new_mongo_try.countDocuments()
< 0
```