Session: Spring Data JPA with Hibernate Part 1 <u>Assignment</u>

(1) Create an Employee Entity which contains following fields

Name, Id, Age, Location

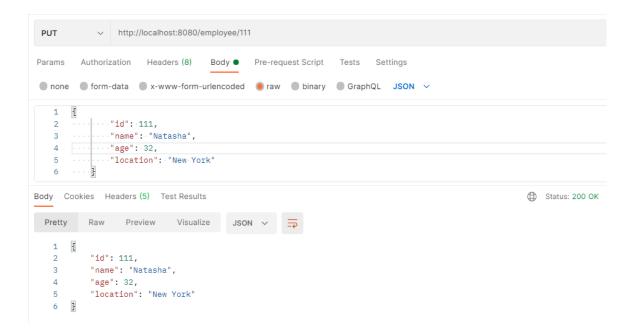
```
@Entity
public class Employee {
    D T B
    @Column(name = "empid")
    private int id;
    @Column (name = "empname")
    private String name;
    private int age;
    private String location;
    public Employee() {
    public int getId() {
        return id;
    public void setId(int id) {
        this.id = id;
    public String getName() {
        return name;
    public void setName(String name) {
        this.name = name;
    public int getAge() {
       return age;
    public void setAge(int age) {
        this.age = age;
    public String getLocation() {
       return location;
    public void setLocation(String location) {
       this.location = location;
}
```

(2) Set up Employee Repository with Spring Data JPA

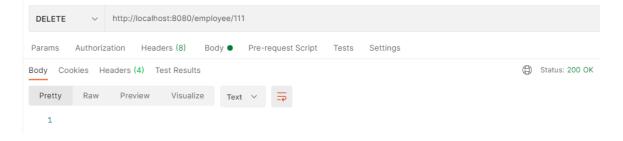
(3) Perform Create Operation on Entity using Spring Data JPA

```
POST
               http://localhost:8080/employee
        Authorization Headers (8)
                                  Body •
                                           Pre-request Script Tests
Params
none form-data x-www-form-urlencoded raw binary GraphQL JSON v
   1
      £
          ...."id": ·111,
   2
            ···"name": ·"Natasha",
             ·"age": 30,
            ···"location": · "New · York"
Body Cookies Headers (5) Test Results
                                                                                                 Status: 200 OK
          Raw Preview Visualize JSON V
   1
      £
          "id": 111,
   2
   3
          "name": "Natasha",
          "age": 30,
          "location": "New York"
   6
```

(4) Perform Update Operation on Entity using Spring Data JPA



(5) Perform Delete Operation on Entity using Spring Data JPA

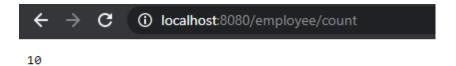


(6) Perform Read Operation on Entity using Spring Data JPA

← → C ① localhost:8080/employee

```
₹ {
      "id": 101,
      "name": "John",
      "age": 32,
      "location": "New York"
  },
₹ {
      "id": 102,
      "name": "Alex",
      "age": 31,
      "location": "Dallas"
  },
₹ {
      "id": 103,
      "name": "Clark",
      "age": 22,
      "location": "Chicago"
  },
₹ {
      "id": 104,
      "name": "Scott",
      "age": 25,
      "location": "Boston"
  },
₹ {
     "id": 105,
      "name": "Adams",
      "age": 29,
      "location": "London"
  },
₹ {
      "id": 106,
      "name": "Justin",
      "age": 30,
      "location": "Paris"
  },
```

(7) Get the total count of the number of Employees



(8) Implement Pagination and Sorting on the bases of Employee Age

"age": 29,

"location": "London"

(9) Create and use finder to find Employee by Name

(10) Create and use finder to find Employees starting with A character

```
\leftarrow \rightarrow \circ
               ① localhost:8080/employee/likeA
   ₹ {
          "id": 102,
          "name": "Alex",
          "age": 31,
          "location": "Dallas"
     },
   ₹ {
          "id": 105,
          "name": "Adams",
          "age": 29,
          "location": "London"
     },
   ₹ {
          "id": 107,
          "name": "Andrew",
          "age": 31,
          "location": "Los Angeles"
```

(11) Create and use finder to find Employees Between the age of 28 to 32

```
\leftarrow \rightarrow c
               (i) localhost:8080/employee/age
   ₹ {
         "id": 101,
         "name": "John",
         "age": 32,
          "location": "New York"
     },
   ₹ {
         "id": 102,
         "name": "Alex",
         "age": 31,
         "location": "Dallas"
     },
   ₹ {
         "id": 105,
         "name": "Adams",
          "age": 29,
         "location": "London"
      },
   ₹ {
         "id": 106,
         "name": "Justin",
          "age": 30,
          "location": "Paris"
     },
   ₹ {
         "id": 107,
         "name": "Andrew",
          "age": 31,
         "location": "Los Angeles"
     },
   ₹ {
         "id": 108,
          "name": "Smith",
         "age": 30,
         "location": "Madrid"
```