Spring boot with Hibernate

```
Entity Classes
package com.jbk.entity;
// Generated Jul 17, 2020 8:16:54 AM by Hibernate Tools 5.2.3.Final
import java.util.Date;
import javax.persistence.Column;
import javax.persistence.Entity;
import javax.persistence.FetchType;
import javax.persistence.GeneratedValue;
import static javax.persistence.GenerationType.IDENTITY;
import javax.persistence.Id;
import javax.persistence.JoinColumn;
import javax.persistence.ManyToOne;
import javax.persistence.Table;
import javax.persistence.Temporal;
import javax.persistence.TemporalType;
/**
* Employee generated by hbm2java
*/
@Entity
@Table(name = "employee", catalog = "springbootdb")
public class Employee implements java.io.Serializable {
```

```
private Integer id;
      private Country country;
      private String name;
      private String phoneno;
      private String departmentit;
      private String status;
      private Date createddtm;
      private String createdby;
      private Date updateddtm;
      private String updatedby;
      public Employee() {
      public Employee(Country country, Date createddtm, Date updateddtm) {
            this.country = country;
            this.createddtm = createddtm;
            this.updateddtm = updateddtm;
      }
      public Employee(Country country, String name, String phoneno, String
departmentit, String status, Date createddtm,
                   String createdby, Date updateddtm, String updatedby) {
            this.country = country;
            this.name = name;
            this.phoneno = phoneno;
```

```
this.departmentit = departmentit;
      this.status = status;
      this.createddtm = createddtm;
      this.createdby = createdby;
      this.updateddtm = updateddtm;
      this.updatedby = updatedby;
}
@Id
@GeneratedValue(strategy = IDENTITY)
@Column(name = "id", unique = true, nullable = false)
public Integer getId() {
      return this.id;
}
public void setId(Integer id) {
      this.id = id;
}
@ManyToOne(fetch = FetchType.EAGER)
@JoinColumn(name = "cid", nullable = false)
public Country getCountry() {
      return this.country;
}
```

```
public void setCountry(Country country) {
      this.country = country;
}
@Column(name = "name", length = 45)
public String getName() {
      return this.name;
public void setName(String name) {
      this.name = name;
@Column(name = "phoneno", length = 45)
public String getPhoneno() {
      return this.phoneno;
public void setPhoneno(String phoneno) {
      this.phoneno = phoneno; FSTD 2005
}
@Column(name = "departmentit", length = 45)
public String getDepartmentit() {
```

```
return this.departmentit;
}
public void setDepartmentit(String departmentit) {
      this.departmentit = departmentit;
}
@Column(name = "status", length = 45)
public String getStatus() {
      return this.status;
}
public void setStatus(String status) {
      this.status = status;
@Temporal(TemporalType.TIMESTAMP)
@Column(name = "createddtm", nullable = false, length = 19)
public Date getCreateddtm() {
      return this.createddtm;
}
public void setCreateddtm(Date createddtm) {
      this.createddtm = createddtm;
}
```

```
@Column(name = "createdby", length = 45)
public String getCreatedby() {
      return this.createdby;
}
public void setCreatedby(String createdby) {
      this.createdby = createdby;
@Temporal(TemporalType.TIMESTAMP)
@Column(name = "updateddtm", nullable = false, length = 19)
public Date getUpdateddtm() {
      return this.updateddtm;
}
public void setUpdateddtm(Date updateddtm) {
      this.updateddtm = updateddtm;
@Column(name = "updatedby", length = 45)
public String getUpdatedby() {
      return this.updatedby;
}
```

```
public void setUpdatedby(String updatedby) {
            this.updatedby = updatedby;
      }
}
package com.jbk.entity;
// Generated Jul 17, 2020 8:16:54 AM by Hibernate Tools 5.2.3. Final
import java.util.HashSet;
import java.util.Set;
import javax.persistence.Column;
import javax.persistence.Entity;
import javax.persistence.FetchType;
import javax.persistence.GeneratedValue;
import static javax.persistence.GenerationType.IDENTITY;
import javax.persistence.Id;
import javax.persistence.OneToMany;
import javax.persistence.Table;
/**
* Country generated by hbm2java
*/
@Entity
@Table(name = "country", catalog = "springbootdb")
```

```
public class Country implements java.io.Serializable {
      private Integer cid;
      private String cname;
      //private Set employees = new HashSet(0);
      public Country()
      public Country(String cname) {
            this.cname = cname;
      public Country(String cname, Set employees) {
            this.cname = cname;
            this.employees = employees;
*/
      @Id
      @GeneratedValue(strategy = IDENTITY)
      @Column(name = "cid", unique = true, nullable = false)
      public Integer getCid() {
            return this.cid;
      }
```

```
public void setCid(Integer cid) {
      this.cid = cid;
}
@Column(name = "cname", nullable = false, length = 45)
public String getCname() {
      return this.cname;
public void setCname(String cname) {
      this.cname = cname;
@OneToMany(fetch = FetchType.LAZY, mappedBy = "country")
public Set getEmployees() {
      return this.employees;
}
public void setEmployees(Set employees) {
      this.employees = employees;
}*/
```

Controller code:-

```
import com.jbk.SpringBootWithHibernateDemo.service.EmployeeService;
import com.jbk.entity.Country;
import com.jbk.entity.Employee;
@RestController
public class EmployeeController {
      @Autowired
      EmployeeService service;
     //API 1-
     //url:localhost:8080/showallemployee
     // method:Get
      @RequestMapping("/showallemployee")
     public List<Employee> showallemployee()
           List<Employee> listemp=service.showallemployee();
           return listemp;
     //API 3
     //url:localhost:8080/showemployeebyid/{id}
      // method:Get
      @RequestMapping("/showemployeebyid/{id}")
      public List<Employee> showemployeebyid(@PathVariable int id)
```

```
List<Employee> listemp=service.showemployeebyid(id);
           return listemp;
      }
     //API 4
     //url:localhost:8080/showallemployeebyname/{name}
     // method:Get
     @RequestMapping("/showemployeebyname/{name}")
     public List<Employee> showemployeebyname(@PathVariable String name)
           List<Employee> listemp=service.showemployeebyname(name);
           return listemp;
     //API 11
      //url:localhost:8080/showemployeebydepartment/{department}
     // method:Get
     @RequestMapping("/showemployeebydepartment/{department}")
     public List<Employee> showallemployeebydepartment(@PathVariable
String department)
```

{

```
List<Employee>
listemp=service.showallemployeebydepartment(department);
            return listemp;
      }
     //API 2
     //url:localhost:8080/showallemployeebystatus/{status}
     // method:Get
      @RequestMapping("/showemployeebystatus/{status}")
     public List<Employee> showallemployeebystatus(@PathVariable String
status)
            List<Employee> listemp=service.showallemployeebystatus(status);
            return listemp;
      }
     //API 6
     //url:localhost:8080/addemployee
     // method:Post
      @PostMapping("/addemployee")
```

```
public String addEmployee(@RequestBody Employee emp)
      String result=service.addEmployee(emp);
      return result;
}
//API 7
//url:localhost:8080/addcountry
// method:Post
@PostMapping("/addcountry")
public String addCountry(@RequestBody Country ctr)
      String result=service.addCountry(ctr);
      return result;
}
//API-10
//url:localhost:8080/deleteemployeebyid/{id}
// method:Delete
```

```
@DeleteMapping("/deleteemployeebyid/{id}")
public String deleteEmployeebyid(@PathVariable int id)
      String result=service.deleteEmployeebyid(id);
      return result;
//API12
//url:localhost:8080/deletecountrybyid{cid}
// method:Delete
@DeleteMapping("/deletecountrybyid/{countryid}")
public String deleteCountrybyid(@PathVariable int countryid)
      String result=service.deleteCountrybyid(countryid);
      return result;
//API-9
//url:localhost:8080/deletecountrybyname/{cname}
// method:Delete
@DeleteMapping("/deletecountrybyname/{cname}")
public String deleteCountrybyName(@PathVariable String cname)
```

```
String result=service.deleteCountrybyName(cname);
return result;

//API-13

//url:localhost:8080/getcountrybycid/{cid}

// method:Get

@RequestMapping("/getcountrybyid/{cid}")

public List<Country> getCountrybyId(@PathVariable int cid)

{
    List<Country> listcountry=service.getCountrybyId(cid);
    return listcountry;
}
```

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```
//API-8
//url:localhost:8080/updatecountry
// method:Put

@RequestMapping(value="/updatecountry", method=RequestMethod.PUT)
public String updateCountry(@RequestBody Country country)
```

```
{
           String result=service.updateCountry(country);
           return result;
     //API 5
     //url:localhost:8080/getemployeelistbeforetoday
     // method:Get
      @RequestMapping("/getemployeebeforetoday")
      public List<Employee> getemployeeBeforeToday()
           List<Employee> listemp=service.getemployeeBeforeToday();
           return listemp;
     //API14
     //url:localhost:8080/updateemployee
     // method:Put
      @RequestMapping(value="/updateemployee",
method=RequestMethod.PUT)
     public String updateEmployee(@RequestBody Employee employee)
           String msg=service.updateEmployee(employee);
           return msg;
     //API 15
```

```
/\!/url: local host: 8080/s howemployee by country name/\{cname\}
     // method:Get
      @RequestMapping("/showemployeebbycounrtryname/{cname}")
     public List<Employee> showallemployeebycountryname(@PathVariable
String cname)
           List<Employee>
listemp=service.showallemployeebycountryname(cname);
           return listemp;
      }
```

```
Service class code:-
package com.jbk.SpringBootWithHibernateDemo.service;
import java.util.List;
import com.jbk.entity.Country;
import com.jbk.entity.Employee;
@Service
public class EmployeeService {
      @Autowired
      EmployeeDao dao;
     public List<Employee> showallemployee() {
            List<Employee> listemp=dao.showallemployee();
            return listemp;
      }
     public List<Employee> showemployeebyid(int id) {
```

List<Employee> listemp=dao.showemployeebyid(id);

```
return listemp;
      }
     public List<Employee> showemployeebyname(String name) {
            List<Employee> listemp=dao.showemployeebyname(name);
            return listemp;
      public List<Employee> showallemployeebydepartment(String department) {
            List<Employee>
listemp=dao.showallemployeebydepartment(department);
            return listemp;
      public List<Employee> showallemployeebystatus(String status) {
            List<Employee> listemp=dao.showallemployeebystatus(status);
            return listemp;
      public String addEmployee(Employee emp) {
            String result=dao.addEmployee(emp);
            return result;
      }
     public String addCountry(Country ctr) {
            String result=dao.addCountry(ctr);
```

```
return result;
}
public String deleteEmployeebyid(int id) {
      String result=dao.deleteEmployeebyid(id);
      return result;
public String deleteCountrybyid(int countryid) {
      String result=dao.deleteCountrybyid(countryid);
      return result;
public String deleteCountrybyName(String cname) {
      String result=dao.deletecountrybyName(cname);
      return result;
public List<Country> getCountrybyId(int cid) {
      List<Country>listcountry=dao.getCountrybyId(cid);
      return listcountry;
}
public String updateCountry(Country country) {
```

```
return result;
      }
     public List<Employee> getemployeeBeforeToday() {
           List<Employee> listemp=dao.getemployeeBeforeToday();
           return listemp;
     public String updateEmployee(Employee employee) {
           String msg=dao.updateEmployee(employee);
           return msg;
     public List<Employee> showallemployeebycountrybyid(int cid)
                 List<Employee>
listemp=dao.showallemployeebycountrybyid(cid);
           return listemp;
      }
     public List<Employee> showallemployeebycountryname(String cname) {
           List<Employee>
listemp=dao.showallemployeebycountryname(cname);
           return listemp;
      }
```

String result=dao.updateCountry(country);





Dao Class code:-

```
import java.util.Date;
import java.util.List;
import com.jbk.entity.Country;
import com.jbk.entity.Employee;
@Repository
public class EmployeeDao {
      @Autowired
      SessionFactory sessionFactory;
      public List<Employee> showallemployee() {
            Session session=sessionFactory.openSession();
            Criteria criteria=session.createCriteria(Employee.class);
            List<Employee> listemp=criteria.list();
            return listemp;
      public List<Employee> showemployeebyid( int id)
      {
            Session session=sessionFactory.openSession();
            Criteria criteria=session.createCriteria(Employee.class);
            criteria.add(Restrictions.eq("id", id));
```

```
List<Employee> listemp=criteria.list();
      return listemp;
}
public List<Employee> showemployeebyname(String name)
      Session session=sessionFactory.openSession();
      Criteria criteria=session.createCriteria(Employee.class);
      criteria.add(Restrictions.eq("name", name));
      List<Employee> listemp=criteria.list();
      return listemp;
}
public List<Employee> showallemployeebydepartment(String department)
      Session session=sessionFactory.openSession();
      Criteria criteria=session.createCriteria(Employee.class);
      criteria.add(Restrictions.eq("departmentit", department));
      List<Employee> listemp=criteria.list();
```

```
return listemp;
}
public List<Employee> showallemployeebystatus(String status)
      Session session=sessionFactory.openSession();
      Criteria criteria=session.createCriteria(Employee.class);
      criteria.add(Restrictions.eq("status",status));
      List<Employee> listemp=criteria.list();
      return listemp;
public String addEmployee(Employee emp) {
      System.out.println(emp.getName());
      Country country=new Country();
      country.setCid(emp.getCountry().getCid());
      country.setCname(emp.getCountry().getCname());
      Employee emp1=new Employee();
      String name=emp.getName();
```

```
emp1.setPhoneno(emp.getPhoneno());
      emp1.setDepartmentit(emp.getDepartmentit());
      emp1.setStatus(emp.getStatus());
      emp1.setCreateddtm(emp.getCreateddtm());
      emp1.setCreatedby(emp.getCreatedby());
      emp1.setUpdateddtm(emp.getUpdateddtm());
      emp1.setUpdatedby(emp.getUpdatedby());
      emp1.setCountry(country);
      Session session=sessionFactory.openSession();
      Transaction transaction=session.beginTransaction();
      session.save(emp1);
      transaction.commit();
      return "Employee Inserted Successfully";
public String addCountry(Country ctr) {
      System.out.println(ctr.getCname());
      Country country=new Country();
      country.setCname(ctr.getCname());
```

emp1.setName(name);

```
Session session=sessionFactory.openSession();
            Transaction transaction=session.beginTransaction();
            session.save(country);
            transaction.commit();
            return "Country Added Successfully";
      public String deleteEmployeebyid(int id) {
            System.out.println("Id"+id);
            Session session=sessionFactory.openSession();
            Transaction transaction=session.beginTransaction();
            Query query=session.createQuery("delete from Employee where
id=:id");
            query.setParameter("id",id);
            int i=query.executeUpdate();
            transaction.commit();
            if(i>0)
                  return "Employee deleted Succefully";
            else
                  return "Something Went wrong";
```

```
public String deleteCountrybyid(int countryid) {
            System.out.println("Country id:- "+countryid);
            Session session=sessionFactory.openSession();
            Transaction transaction=session.beginTransaction();
      Query query=session.createQuery("delete from Country where
cid=:countryid");
      query.setParameter("countryid", countryid);
      int i=query.executeUpdate();
      transaction.commit();
            if(i>0)
                  return "Country deleted Successfully!"+countryid+"country id";
            else
                  return "Something went Wrong!";
      public String deletecountrybyName(String cname) {
```

```
System.out.println("Country Name:-"+cname);
            Session session=sessionFactory.openSession();
            Transaction transaction=session.beginTransaction();
            Query query=session.createQuery("delete from Country where
cname=:cname");
            query.setParameter("cname", cname);
            int i=query.executeUpdate();
            transaction.commit();
            if(i>0)
                  return " "+cname+" Country deleted successfully";
            else
                  return "something went wrong";
      public List<Country> getCountrybyId(int cid) {
            Session session=sessionFactory.openSession();
            Criteria criteria=session.createCriteria(Country.class);
            criteria.add(Restrictions.eq("cid", cid));
```

```
List<Country> listcountry=criteria.list(); return listcountry;
```

```
public String updateCountry(Country country) {
            System.out.println(country.getCid());
            System.out.println(country.getCname());
            String countryname=country.getCname();
            Session session=sessionFactory.openSession();
            Transaction transaction=session.beginTransaction();
            Query query=session.createQuery("update Country set cname=:cname
where cid=:cid");
            query.setParameter("cname",country.getCname());
            query.setParameter("cid", country.getCid());
            int result=query.executeUpdate();
            transaction.commit();
            if(result>0)
                  return "country "+countryname+" Updated Successfully";
            else
                  return "something Went Wrong";
```

```
public List<Employee> getemployeeBeforeToday() {
            Date date=new Date();
            System.out.println(date);
            Session session=sessionFactory.openSession();
            Query query=session.createQuery("from Employee where createddtm
<:date");
            query.setParameter("date", date);
            List<Employee> listemp=query.list();
            System.out.println(listemp);
            return listemp;
     public String updateEmployee(Employee employee) {
            int id=employee.getId();
            System.out.println(employee.getName());
            Session session=sessionFactory.openSession();
            Transaction transaction=session.beginTransaction();
            Query query=session.createQuery("update Employee set name=:name
,phoneno=:phoneno,departmentit=:departmentit,status=:status,createddtm=:created
dtm,createdby=:createdby,updateddtm=:updateddtm,updatedby=:updatedby,countr
y=:country where id=:id ");
            query.setParameter("name", employee.getName());
```

```
query.setParameter("phoneno", employee.getPhoneno());
      query.setParameter("departmentit", employee.getDepartmentit());
      query.setParameter("status", employee.getStatus());
      query.setParameter("createddtm", employee.getCreateddtm());
      query.setParameter("createdby", employee.getCreatedby());
      query.setParameter("updateddtm", employee.getUpdateddtm());
      query.setParameter("updatedby", employee.getUpdatedby());
      query.setParameter("country", employee.getCountry());
      query.setParameter("id", employee.getId());
      int i=query.executeUpdate();
      transaction.commit();
      if(i>0)
            return "Employee "+id+" Updated Successfully!";
      else
            return "Something went Wrong!";
public List<Employee> showallemployeebycountrybyid(int cid) {
      Session session=sessionFactory.openSession();
            Criteria criteria=session.createCriteria(Employee.class);
            Criteria criteria 1=session.createCriteria (Country.class);
```

```
Country country=session.get(Country.class,cid);
            System.out.println(country.getCname());
            criteria.add(Restrictions.eq("country",country));
            List<Employee> listemp=criteria.list();
            return listemp;
public List<Employee> showallemployeebycountryname(String cname) {
      Session session=sessionFactory.openSession();
            Criteria criteria=session.createCriteria(Country.class);
            criteria.add(Restrictions.eq("cname",cname));
            int cid=0;
            String country_name=null;
            List<Country> listcountry=criteria.list();
            for(Country country:listcountry)
                  cid=country.getCid();
               System.out.println(cid);
              country_name=country.getCname();
              System.out.println(country_name);
            Country ctr=new Country();
            ctr.setCid(cid);
            ctr.setCname(cname);
```

Criteria criteria_emp=session.createCriteria(Employee.class); criteria_emp.add(Restrictions.eq("country", ctr)); List<Employee>listemp=criteria_emp.list();

return listemp;

}

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