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Spring Boot 9AM

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Spring Boot : Data JPA

\*) deleteById(id):void

This method is used to delete one row based on  
PrimaryKey(ID).

=> This method is checking given id exist or not  
in DB table using internally findById()  
method, if exist then it is calling  
delete(obj) method, else throwing  
EmptyResultDataAccessException.

-----  
\*) delete(Object):void

This method takes object having PK.  
If given Id exist in DB it will delete  
else does nothing.[no exception, no error]

-----code-----

1. Model

```
package in.nareshit.raghu.model;
```

```
import javax.persistence.Entity;  
import javax.persistence.Id;
```

```
import lombok.AllArgsConstructor;  
import lombok.Data;  
import lombok.NoArgsConstructor;
```

```
@Data
```

```
@NoArgsConstructor
```

```
@AllArgsConstructor
```

```
@Entity
```

```
public class Student {
```

```
    @Id
```

```
    private Integer sid;
```

```
    private String sname;
```

```
    private Double sfee;
```

```
}
```

2. application.properties

```
#spring.datasource.driver-class-name=
```

```
spring.datasource.url=jdbc:mysql://localhost:3306/boot9am
```

```
spring.datasource.username=root
```

```
spring.datasource.password=root
```

```
spring.jpa.show-sql=true
```

```
spring.jpa.hibernate.ddl-auto=create
```

```
#spring.jpa.database-platform=
```

3. Repository

```

package in.nareshit.raghu.repo;

import org.springframework.data.repository.CrudRepository;

import in.nareshit.raghu.model.Student;

public interface StudentRepository
    extends CrudRepository<Student, Integer>
{

}

```

#### 4. Runner class

```

package in.nareshit.raghu.runner;

import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.boot.CommandLineRunner;
import org.springframework.stereotype.Component;

import in.nareshit.raghu.model.Student;
import in.nareshit.raghu.repo.StudentRepository;

@Component
public class TestStudentOprRunner implements CommandLineRunner {
    @Autowired
    private StudentRepository repo;

    @Override
    public void run(String... args) throws Exception {

        repo.save(new Student(10, "A", 2.2));
        repo.save(new Student(11, "B", 3.2));
        repo.save(new Student(12, "C", 4.2));
        repo.save(new Student(13, "D", 5.2));

        repo.deleteById(120);
        //repo.delete(new Student(102, null, null));
        System.out.println("12 Deleted...");

    }
}

```

```

}

```

```

=====

```

```

*) deleteAll(Iterable<? extends T> entities):void
This is used to take object having primary key
as List of objects.
If given object id is matching with table row
then it will delete such row (else does nothing
no exception, no error).

```

#### Runner class:

```

package in.nareshit.raghu.runner;

import java.util.Arrays;

import org.springframework.beans.factory.annotation.Autowired;

```

```

import org.springframework.boot.CommandLineRunner;
import org.springframework.stereotype.Component;

import in.nareshit.raghu.model.Student;
import in.nareshit.raghu.repo.StudentRepository;

@Component
public class TestStudentOprRunner implements CommandLineRunner {
    @Autowired
    private StudentRepository repo;

    @Override
    public void run(String... args) throws Exception {

        repo.save(new Student(10, "A", 2.2));
        repo.save(new Student(11, "B", 3.2));
        repo.save(new Student(12, "C", 4.2));
        repo.save(new Student(13, "D", 5.2));

        //repo.deleteById(120);
        //repo.delete(new Student(102, null, null));
        repo.deleteAll(Arrays.asList(
            new Student(10),
            new Student(12),
            new Student(14),
            new Student(16)
        ));

        System.out.println("Data Deleted...");

    }
}

```

-----

\*) deleteAll():void  
It will delete all rows in DB table.

```

package in.nareshit.raghu.runner;

import java.util.Arrays;

import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.boot.CommandLineRunner;
import org.springframework.stereotype.Component;

import in.nareshit.raghu.model.Student;
import in.nareshit.raghu.repo.StudentRepository;

@Component
public class TestStudentOprRunner implements CommandLineRunner {
    @Autowired
    private StudentRepository repo;

    @Override
    public void run(String... args) throws Exception {

```

```

repo.save(new Student(10, "A", 2.2));
repo.save(new Student(11, "B", 3.2));
repo.save(new Student(12, "C", 4.2));
repo.save(new Student(13, "D", 5.2));

repo.deleteAll();

//repo.deleteById(120);
//repo.delete(new Student(102, null, null));
/*
 * repo.deleteAll(Arrays.asList( new Student(10), new
Student(12), new
 * Student(14), new Student(16) ));
 */

System.out.println("Data Deleted...");

}

}
-----
save() insert --update

```