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1) insert a new record inside product table

```
Product product = new Product();
product.setName(""); product.setManufacturer("");
productRepository.save(product);
```

2) update an existing record in product table

```
Product product = productRepository.findOne(1L);
product.setName(""); product.setManufacturer("");
productRepository.save(product);
```

3) delete an existing record from product table

```
Product product = productRepository.findOne(1L);
productRepository.delete(product);
```

4) execute an query and return the manufacturer list for a given product name

```
List<Product> products = productRepository.findByName(""); for (Product product : products) {

System.out.println(product.getManufacturer());
}
```

service

```
package jp.mitsuruog.springboot.sample.Customer.service;
```

import jp.mitsuruog.springboot.sample.Customer.domain.Customer; import jp.mitsuruog.springboot.sample.Customer.repository.CustomerRepository; import org.springframework.beans.factory.annotation.Autowired; import org.springframework.data.domain.Page; import org.springframework.data.domain.Pageable; import

```
org.springframework.stereotype.Service; import
java.util.List;
@Service public class
CustomerService {
@Autowired
CustomerRepository customerRepository;
public Page<Customer> findAll(Pageable pageable) { return
customer Repository. find All Order By Name (pageable);\\
}
public Customer findById(Integer id) { return
customerRepository.findOne(id);
}
public Customer create(Customer customer) { return
customerRepository.save(customer);
}
public Customer update(Customer customer) { return
customerRepository.save(customer);
}
public void delete(Integer id) { customerRepository.delete(id);
}
}
```

<u>model</u>

 $import\ org. spring framework. boot. autoconfigure. Spring Boot Application;$

```
@SpringBootApplication public class
DemoApplication { public static void
main(String[] args) {
SpringApplication.run(DemoApplication.class, args);
}
}
Dao
public class UserDao implements Dao<User> {
private List<User> users = new ArrayList<>();
public UserDao() { users.add(new User("John",
"john@domain.com")); users.add(new User("Susan",
"susan@domain.com"));
}
@Override public Optional<User>
get(long id) {
return Optional.ofNullable(users.get((int) id));
}
@Override
public List<User> getAll() { return
users;
}
@Override
RestController package
es.macero.dev;
```

```
import\ org. spring framework. boot. Spring Application;\ import
 org. spring framework. boot. autoconfigure. Spring Boot Application; import\\
org.spring framework.context.annotation.Bean; import\\
springfox.documentation.builders.PathSelectors; import
spring fox. documentation. builders. Request Handler Selectors; import\\
springfox.documentation.spi.DocumentationType; import
 springfox.documentation.spring.web.plugins.Docket; import
springfox.documentation.swagger2.annotations.EnableSwagger2;
@SpringBootApplication @EnableSwagger2 public class
SpringBootRestcontrollerExampleApplication {
public static void main(String[] args) {
Spring Application. run (Spring Boot Rest controller Example Application. class, and the sum of t
args);
}
 @Bean
public Docket api() { return new
 Docket(DocumentationType.SWAGGER_2)
.select()
.apis(RequestHandlerSelectors.any())
 .paths(PathSelectors.regex("/getCustomersDetails"))
 .build();
}
}
```

Pom.xml

```
project xmlns="https://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="https://maven.apache.org/POM/4.0.0
http://maven.apache.org/maven-v4_0_0.xsd">
<modelVersion>4.0.0</modelVersion>
<groupId>com.customer
<artifactId>customer-ws-spring-boot</artifactId>
<version>2.3.0</version>
<name>Spring Boot</name>
<description>web services using Spring Boot.</description>
<parent>
<groupId>org.springframework.boot
<artifactId>spring-boot-starter-parent</artifactId>
<version>2.1.1.RELEASE</version>
</parent>
cproperties>
ct.build.sourceEncoding>UTF-8/project.build.sourceEncoding>
<java.version>11</java.version>
</properties>
<dependencies>
<dependency>
<groupId>org.springframework.boot
<artifactId>spring-boot-starter-web</artifactId>
</dependency>
<dependency>
<groupId>org.springframework.boot
```

```
<artifactId>spring-boot-starter-actuator</artifactId>
</dependency>
<dependency>
<groupId>org.springframework.boot
<artifactId>spring-boot-starter-data-jpa</artifactId>
</dependency>
<!-- Dependencies for Unit Testing -->
<dependency>
<groupId>org.springframework.boot
<artifactId>spring-boot-starter-test</artifactId>
<scope>test</scope>
</dependency>
<dependency>
<groupId>org.springframework.security</groupId>
<artifactId>spring-security-test</artifactId>
<scope>test</scope>
</dependency>
<dependency>
<groupId>com.google.guava
<artifactId>guava</artifactId>
<version>27.0.1-jre</version>
<scope>test</scope>
</dependency>
<build>
<plugins>
<plugin>
<groupId>org.springframework.boot
<artifactId>spring-boot-maven-plugin</artifactId> <configuration>
<executable>true</executable>
</configuration>
```

```
<executions>
<execution>
<goals>
<goal>build-info</goal>
</goals>

</execution>
</executions>
</plugin>
</plugins>
</build>
</project>
```

Product Table:

```
CREATE TABLE product ( id int NOT NULL AUTO_INCREMENT, name varchar(255) NOT NULL, price decimal(10,2) NOT NULL, PRIMARY KEY (id) );
```

Customer Table:

```
CREATE TABLE customer ( id int NOT NULL AUTO_INCREMENT, name varchar(255) NOT NULL, address varchar(255) NOT NULL, PRIMARY KEY (id) );
```

Manufacturer Table:

```
CREATE TABLE manufacturer ( id int NOT NULL AUTO_INCREMENT, name varchar(255) NOT NULL, PRIMARY KEY (id)
);
```

class table:

```
CREATE TABLE `class` (
  `class_id` int(11) NOT NULL AUTO_INCREMENT,
  `class_name` varchar(255) NOT NULL,
  `class_code` varchar(255) NOT NULL,
  `class_description` text NOT NULL,
  `class_size` int(11) NOT NULL,
  `class_room` varchar(255) NOT NULL,
  `class_time` time NOT NULL,
  `class_date` date NOT NULL,
  `class_date` date NOT NULL,
```