```
Code:
RestapiOne:
Spring boot Application:
package com.example;
import org.springframework.boot.SpringApplication;
import org.springframework.boot.autoconfigure.SpringBootApplication;
@SpringBootApplication
public class MicroservicesSpringBootApplication {
     public static void main(String[] args) {
     SpringApplication.run(MicroservicesSpringBootApplication.class,
args);
}
PersonResponse:
package com.example;
public class PersonResponse {
     private Integer personId;
     private String name;
     private Integer age;
     private String hobby;
     public Integer getPersonId() {
           return personId;
     }
     public void setPersonId(Integer personId) {
           this.personId = personId;
     }
     public String getName() {
           return name;
     }
     public void setName(String name) {
           this.name = name;
     }
     public Integer getAge() {
           return age;
```

```
public void setAge(Integer age) {
           this.age = age;
     public String getHobby() {
           return hobby;
     public void setHobby(String hobby) {
           this.hobby = hobby;
     }
}
PersonController:
package com.example.controller;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.web.bind.annotation.PathVariable;
import org.springframework.web.bind.annotation.RequestBody;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RequestMethod;
import org.springframework.web.bind.annotation.RestController;
import com.example.PersonResponse;
import com.example.entity.PersonEntity;
import com.example.service.PersonService;
@RestController
@RequestMapping(path="/webapione")
public class PersonController {
     @Autowired
     PersonService personService;
     @RequestMapping("/person/{id}")
     public PersonResponse getPerson(@PathVariable int id)
     {
           return personService.getPerson(id);
     }
     @RequestMapping(method= RequestMethod.POST, path="/person",
consumes="application/json", produces="application/json")
     public void addPerson(@RequestBody PersonEntity pe) {
           personService.addPerson(pe);
```

```
}
}
PersonEntity:
package com.example.entity;
import jakarta.persistence.Column;
import jakarta.persistence.Entity;
import jakarta.persistence.GeneratedValue;
import jakarta.persistence.GenerationType;
import jakarta.persistence.Id;
@Entity
public class PersonEntity {
     @Id
     @GeneratedValue(strategy = GenerationType.AUTO)
     @Column(name="id",nullable = false)
     private Integer personId;
     private String name;
     private Integer age;
     public PersonEntity() {
     }
     public PersonEntity(Integer personId, String name, Integer age) {
           super();
           this.personId = personId;
           this.name = name;
           this.age = age;
     }
     public String getName() {
           return name;
     }
     public void setName(String name) {
           this.name = name;
     }
     public Integer getAge() {
           return age;
     }
```

```
public void setAge(Integer age) {
           this.age = age;
     }
     public Integer getPersonId() {
           return personId;
     }
}
PersonRepository:
package com.example.Repository;
import org.springframework.data.jpa.repository.JpaRepository;
import org.springframework.stereotype.Repository;
import com.example.entity.PersonEntity;
@Repository
public interface PersonRepository extends JpaRepository<PersonEntity,</pre>
Integer> {
}
PersonService:
package com.example.service;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Service;
import org.springframework.web.client.RestTemplate;
import com.example.PersonResponse;
import com.example.Repository.PersonRepository;
import com.example.entity.PersonEntity;
@Service
public class PersonService {
     @Autowired
     PersonRepository personRepository;
```

```
RestTemplate restTemplate = new RestTemplate();
     public PersonResponse getPerson(int personId) {
           final String uri =
"http://localhost:8062/webapitwo/hobby/"+personId;
           //Map<String , Integer> params = new HashMap<String,</pre>
Integer>();
           String result = restTemplate.getForObject(uri,
String.class);
           PersonEntity pe = personRepository.findById(personId).get();
           PersonResponse pr = new PersonResponse();
           pr.setPersonId(pe.getPersonId());
           pr.setName(pe.getName());
           pr.setAge(pe.getAge());
           pr.setHobby(result);
           return pr;
     }
     public void addPerson(PersonEntity pe) {
           personRepository.save(pe);
     }
}
Application.properties:
server.port=8060
spring.application.name=RestApiOne
spring.h2.console.enabled=true
spring.jpa.hibernate.ddl-auto=update
```

```
RestApiTwo:
Application:
package com.example;
import org.springframework.boot.SpringApplication;
import org.springframework.boot.autoconfigure.SpringBootApplication;
import org.springframework.context.annotation.ComponentScan;
@SpringBootApplication
@ComponentScan("com.example")
public class RestApiTwoApplication {
     public static void main(String[] args) {
           SpringApplication.run(RestApiTwoApplication.class, args);
     }
}
HobbyEntity:
package com.example;
import jakarta.persistence.Column;
import jakarta.persistence.Entity;
import jakarta.persistence.GeneratedValue;
import jakarta.persistence.GenerationType;
import jakarta.persistence.Id;
@Entity
public class HobbyEntity {
    @Id
    @GeneratedValue(strategy = GenerationType.AUTO)
    @Column(name = "id", updatable = false, nullable = false)
    private Integer id;
    @Column
    private Integer personId;
    @Column
    private String name;
    public HobbyEntity() {
        super();
    public HobbyEntity(Integer personId, String name) {
```

```
super();
        this.personId = personId;
        this.name = name;
    public Integer getPersonId() {
        return personId;
    public void setPersonId(Integer personId) {
        this.personId = personId;
    public String getName() {
        return name;
    public void setName(String name) {
        this.name = name;
    }
}
HobbyRepository:
package com.example;
import org.springframework.data.jpa.repository.JpaRepository;
import org.springframework.data.jpa.repository.Query;
import org.springframework.stereotype.Repository;
@Repository
public interface HobbyRepository extends JpaRepository<HobbyEntity,</pre>
Integer> {
       @Query("SELECT h.name FROM HobbyEntity h WHERE
h.personId=:personId")
        public String findByPersonId(Integer personId);
}
HobbyService:
package com.example;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Service;
@Service
public class HobbyService {
```

```
@Autowired
    HobbyRepository hobbyRepository;
    public String findByPersonId(int personid){
        return hobbyRepository.findByPersonId(personid);
    }
    public void addHobby(HobbyEntity he){
        hobbyRepository.save(he);
    }
}
HobbyController:
package com.example;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.web.bind.annotation.PathVariable;
import org.springframework.web.bind.annotation.RequestBody;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RequestMethod;
import org.springframework.web.bind.annotation.RestController;
@RestController
@RequestMapping(path = "/webapitwo")
public class HobbyController {
    @Autowired
    HobbyService hobbyService;
    @RequestMapping("/hobby/{personid}")
    public String findByPersonId(@PathVariable int personid){
        return hobbyService.findByPersonId(personid);
    }
    @RequestMapping(method=RequestMethod.POST, value="/hobby")
    public void addHobby(@RequestBody HobbyEntity he ) {
        hobbyService.addHobby(he);
    }
}
```

Application.properties:

```
server.port=8062
spring.application.name=RestApiTwo
spring.h2.console.enabled=true
spring.jpa.show-sql=true
```

Output:

