Employee Management RESTAPI Assignment - Screenshots

1. **Application Execution:**

```
2022-07-17 00:11:53.501  INFO 92173 --- [  restartedMain] com.zaxxer.hikari.HikariDataSource       : HikariPool-1 - Start completed.
2022-07-17 00:11:53.515  INFO 92173 --- [  restartedMain] o.s.b.a.h2.H2ConsoleAutoConfiguration    : H2 console available at '/h2-console'. Database available at 'jdbc:h2:mem:employee'
2022-07-17 00:11:53.678  INFO 92173 --- [  restartedMain] o.hibernate.jpa.internal.util.LogHelper  : HHH000204: Processing PersistenceUnitInfo [name: default]
2022-07-17 00:11:53.719  INFO 92173 --- [  restartedMain] org.hibernate.Version                    : HHH000412: Hibernate ORM core version 5.6.9.Final
2022-07-17 00:11:53.856  INFO 92173 --- [  restartedMain] o.hibernate.annotations.common.Version   : HCANN000001: Hibernate Commons Annotations {5.1.2.Final}
2022-07-17 00:11:53.994  INFO 92173 --- [  restartedMain] org.hibernate.dialect.Dialect            : HHH000400: Using dialect: org.hibernate.dialect.H2Dialect
2022-07-17 00:11:54.492  INFO 92173 --- [  restartedMain] o.h.e.t.j.p.i.JtaPlatformInitiator       : HHH000490: Using JtaPlatform implementation: [org.hibernate.engine.transaction.jta.plat
2022-07-17 00:11:54.498  INFO 92173 --- [  restartedMain] j.LocalContainerEntityManagerFactoryBean : Initialized JPA EntityManagerFactory for persistence unit 'default'
2022-07-17 00:11:54.859  WARN 92173 --- [  restartedMain] JpaBaseConfiguration$JpaWebConfiguration : spring.jpa.open-in-view is enabled by default. Therefore, database queries may be perfo
2022-07-17 00:11:55.697  INFO 92173 --- [  restartedMain] o.s.s.web.DefaultSecurityFilterChain     : Will secure any request with [org.springframework.security.web.session.DisableEncodeUrl
2022-07-17 00:11:55.724  INFO 92173 --- [  restartedMain] o.s.b.d.a.OptionalLiveReloadServer       : LiveReload server is running on port 35729
2022-07-17 00:11:55.748  INFO 92173 --- [  restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer  : Tomcat started on port(s): 8222 (http) with context path ''
2022-07-17 00:11:55.756  INFO 92173 --- [  restartedMain] c.gl.employeeapi.EmployeeApiApplication  : Started EmployeeApiApplication in 4.146 seconds (JVM running for 4.676)
```

2) Some sample records in H2 Database:

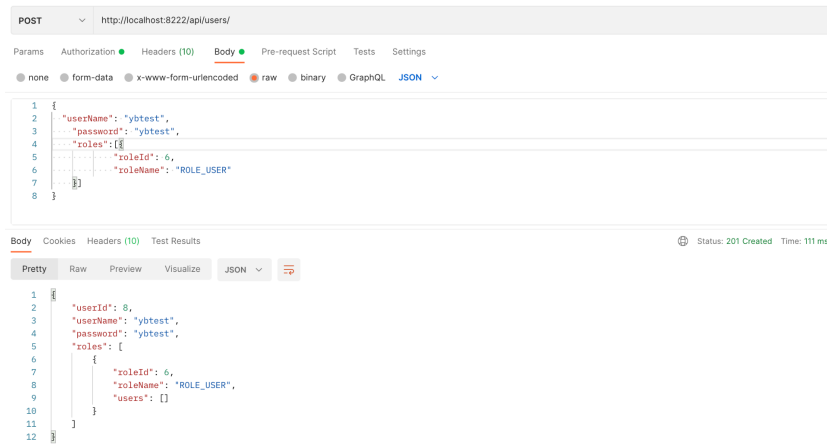| Run | Run Selected | Auto complete | Clear | SQL statement: |

```
SELECT * FROM EMPLOYEE
```

SELECT * FROM EMPLOYEE;

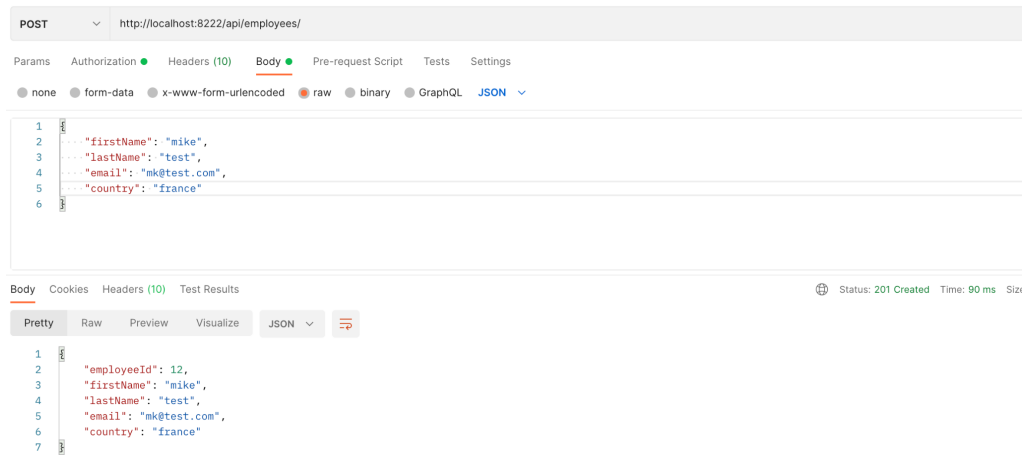| EMPLOYEE_ID	COUNTRY	EMAIL	FIRST_NAME	LAST_NAME
1	India0	maddy@test0.com	Maddy0	R0
2	India1	maddy@test1.com	Maddy1	R1
3	India2	maddy@test2.com	Maddy2	R2

(3 rows, 2 ms)

3) Addition of a new userv "ybtest" with "USER" role using User service in Postman with Admin user
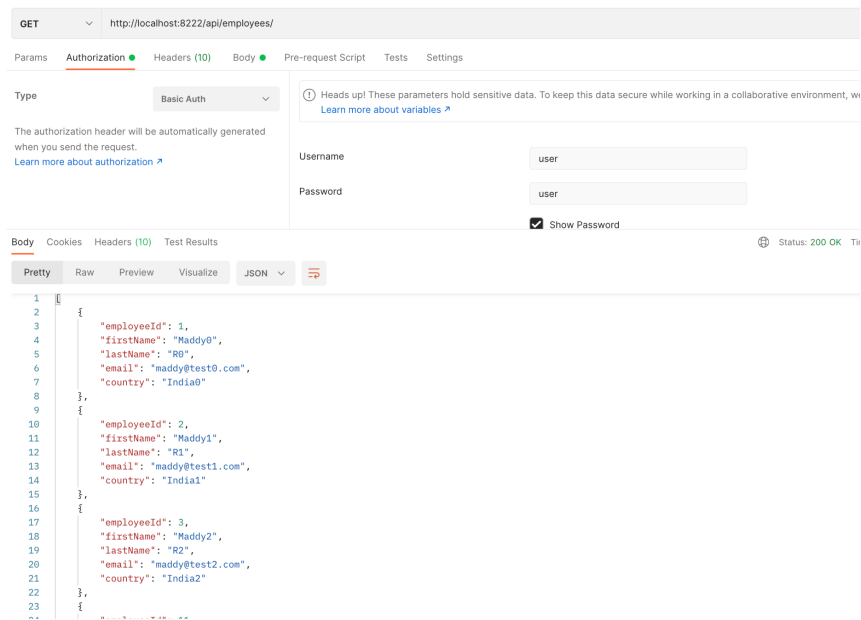

4) Addition of a new role "Read-only" using Role service with Admin user postman
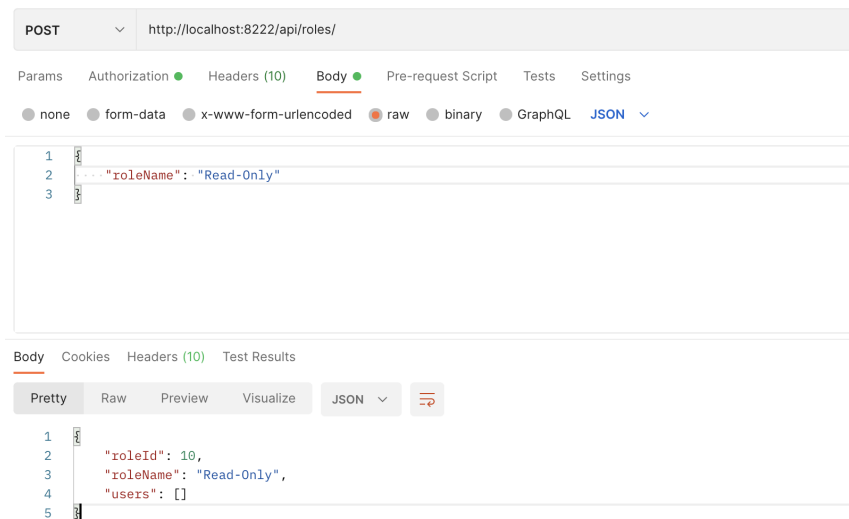
5) Addition of a new employee using Employee service with Admin user in Postman

| POST ∨ | http://localhost:8222/api/employees/ |

Params   Authorization ●   Headers (10)   Body ●   Pre-request Script   Tests   Settings

○ none   ○ form-data   ○ x-www-form-urlencoded   ● raw   ○ binary   ○ GraphQL   JSON ∨

```
1  {
2      "firstName": "mike",
3      "lastName": "test",
4      "email": "mk@test.com",
5      "country": "france"
6  }
```

Body   Cookies   Headers (10)   Test Results   Status: 201 Created   Time: 90 ms   Size

Pretty   Raw   Preview   Visualize   JSON ∨

```
1  {
2      "employeeId": 12,
3      "firstName": "mike",
4      "lastName": "test",
5      "email": "mk@test.com",
6      "country": "france"
7  }
```

6) View All Employees in Postman with just a normal user.

| GET ∨ | http://localhost:8222/api/employees/ |

Params   Authorization ●   Headers (10)   Body ●   Pre-request Script   Tests   Settings

Type   Basic Auth ∨   (!) Heads up! These parameters hold sensitive data. To keep this data secure while working in a collaborative environment, we
                                             Learn more about variables ↗

The authorization header will be automatically generated
when you send the request.   Username   user
Learn more about authorization ↗
                                                              Password   user

                                                                                ☑ Show Password

Body   Cookies   Headers (10)   Test Results   Status: 200 OK   Ti

Pretty   Raw   Preview   Visualize   JSON ∨

```
1  [
2      {
3          "employeeId": 1,
4          "firstName": "Maddy0",
5          "lastName": "R0",
6          "email": "maddy@test0.com",
7          "country": "India0"
8      },
9      {
10         "employeeId": 2,
11         "firstName": "Maddy1",
12         "lastName": "R1",
13         "email": "maddy@test1.com",
14         "country": "India1"
15     },
16     {
17         "employeeId": 3,
18         "firstName": "Maddy2",
19         "lastName": "R2",
20         "email": "maddy@test2.com",
21         "country": "India2"
22     },
23     {
```

7) View a specific Employee by ID

8) Update an employee record. We're updating the country of the Employee ID -2 below.

Before:

After:

PUT   http://localhost:8222/api/employees/2

Params   Authorization ●   Headers (10)   Body ●   Pre-request Script   Tests   Settings

○ none   ○ form-data   ○ x-www-form-urlencoded   ● raw   ○ binary   ○ GraphQL   JSON ⌄

```
1
2    {
3        "employeeId": 2,
4        "firstName": "Maddy1",
5        "lastName": "R1",
6        "email": "maddy@test1.com",
7        "country": "India"
8    }
```

Body   Cookies   Headers (10)   Test Results

Pretty   Raw   Preview   Visualize   JSON ⌄

```
1    {
2        "employeeId": 2,
3        "firstName": "Maddy1",
4        "lastName": "R1",
5        "email": "maddy@test1.com",
6        "country": "India"
7    }
```

9) Delete an employee record. We're removing the Employee ID record - 12

DELETE ⌄   http://localhost:8222/api/employees/12

Params   Authorization ●   Headers (10)   Body ●   Pre-request Script   Tests   Settings

Type   Basic Auth ⌄   ⓘ Heads up! These parameters hold sensitive data. To keep this data secure while working in a collaborative environment, we recomm
The authorization header will be automatically generated   Learn more about variables ↗
when you send the request.
Learn more about authorization ↗   Username   admin

                                                Password   admin

                                                ☑ Show Password

Body   Cookies   Headers (8)   Test Results   ⊕ Status: 204 No Content   Time: 90 m

Pretty   Raw   Preview   Visualize   Text ⌄

```
1
```

10) List all employee records sorted on their first name in ascending order

11) List all employee records sorted on their first name in Descending order

12) Search an employee by FirstName - Maddy0 is an example of one record.


```
GET  ∨   http://localhost:8222/api/employees/searchbyname/Maddy0

Params   Authorization ●   Headers (10)   Body ●   Pre-request Script   Tests   Settings

Type                    Basic Auth  ∨        ⓘ Heads up! These parameters hold sensitive data. To keep this data secure while working in
                                                Learn more about variables ↗
The authorization header will be automatically generated
when you send the request.               Username                    user
Learn more about authorization ↗
                                         Password                    user
                                                                     ☑ Show Password

Body   Cookies   Headers (10)   Test Results

Pretty   Raw   Preview   Visualize        JSON ∨

1  [
2      {
3          "employeeId": 1,
4          "firstName": "Maddy0",
5          "lastName": "R0",
6          "email": "maddy@test0.com",
7          "country": "India0"
8      }
9  ]
```

13) Search an employee for a first name and returns multiple matches.

Before - Two records are there with first name being Maddy1.

GET ∨ http://localhost:8222/api/employees/

Params Authorization ● Headers (10) Body ● Pre-request Script Tests Settings

○ none ○ form-data ○ x-www-form-urlencoded ● raw ○ binary ○ GraphQL JSON ∨

```
1    {
2        "firstName": "Maddy1",
3        "lastName": "R1",
4        "email": "maddy@test1.com",
5        "country": "India1"
6    }
7
8
```

Body Cookies Headers (10) Test Results

Pretty Raw Preview Visualize JSON ∨

```
8        },
9        {
10           "employeeId": 2,
11           "firstName": "Maddy1",
12           "lastName": "R1",
13           "email": "maddy@test1.com",
14           "country": "India1"
15       },
16       {
17           "employeeId": 3,
18           "firstName": "Maddy2",
19           "lastName": "R2",
20           "email": "maddy@test2.com",
21           "country": "India2"
22       },
23       {
24           "employeeId": 8,
25           "firstName": "Maddy1",
26           "lastName": "R1",
27           "email": "maddy@test1.com",
28           "country": "India1"
29       }
30   ]
```

After - searchbyname for Maddy1 returns both the matches.

GET ⌄   http://localhost:8222/api/employees/searchbyname/Maddy1

Params   Authorization ●   Headers (10)   Body ●   Pre-request Script   Tests   Settings

Type   Basic Auth ⌄   ⚠ Heads up! These parameters hold sensitive data. To keep this data secure while working
                                                  Learn more about variables ↗
The authorization header will be automatically generated
when you send the request.
Learn more about authorization ↗   Username   user

                                          Password   user

                                                                          ☑ Show Password

Body   Cookies   Headers (10)   Test Results

Pretty   Raw   Preview   Visualize   JSON ⌄   ⇥

```
 1   [
 2       {
 3           "employeeId": 2,
 4           "firstName": "Maddy1",
 5           "lastName": "R1",
 6           "email": "maddy@test1.com",
 7           "country": "India1"
 8       },
 9       {
10           "employeeId": 8,
11           "firstName": "Maddy1",
12           "lastName": "R1",
13           "email": "maddy@test1.com",
14           "country": "India1"
15       }
16   ]
```