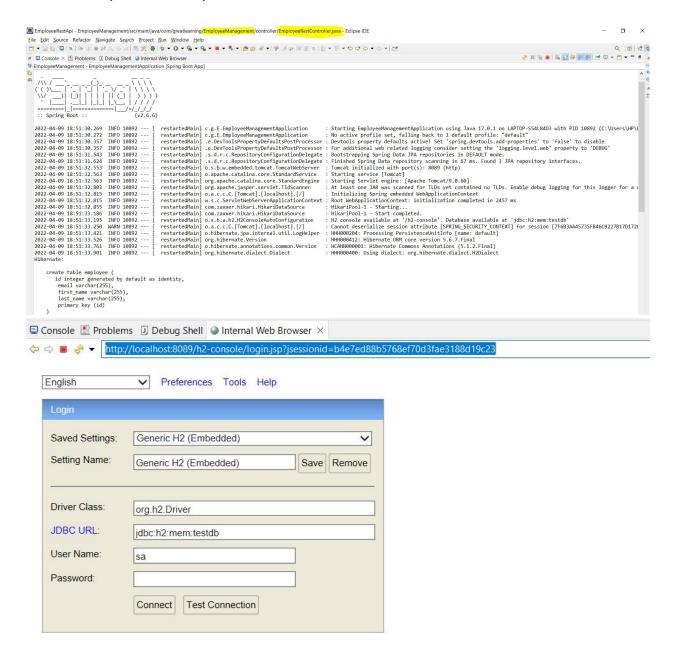
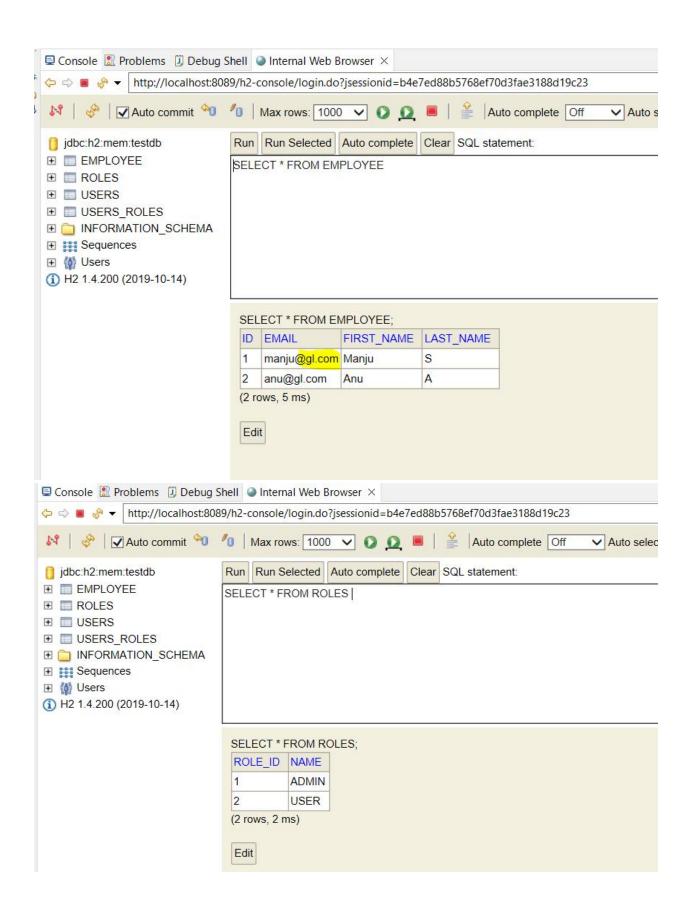
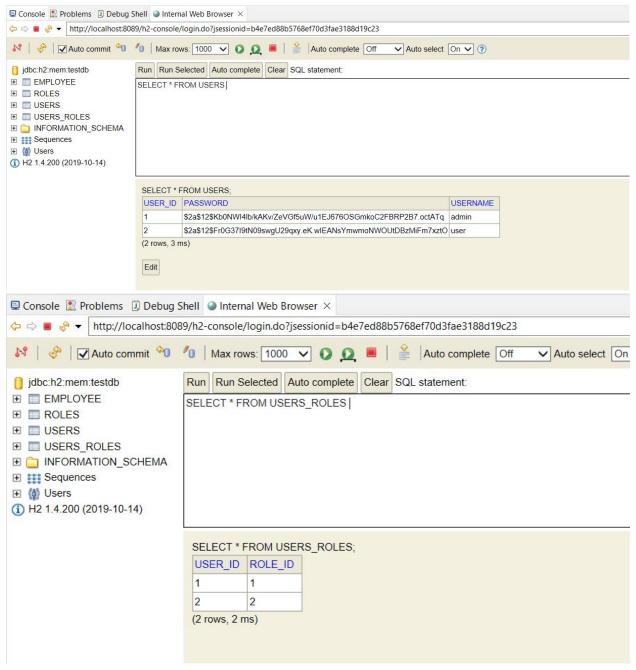
Graded coding assignment 6

Employee Management Rest API Assignment

Create a Employee Management Rest Api based Web application, with CRUD(Create,Read,Update and Delete) functionality along with Sorting, searching and some concepts of security.





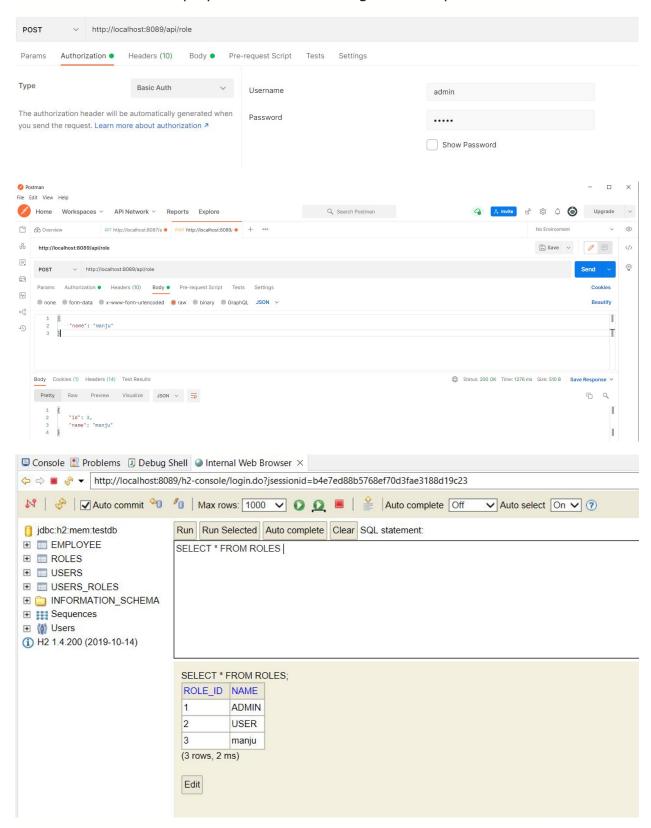


Rest Api is secure, and has different endpoints for different operations as below:

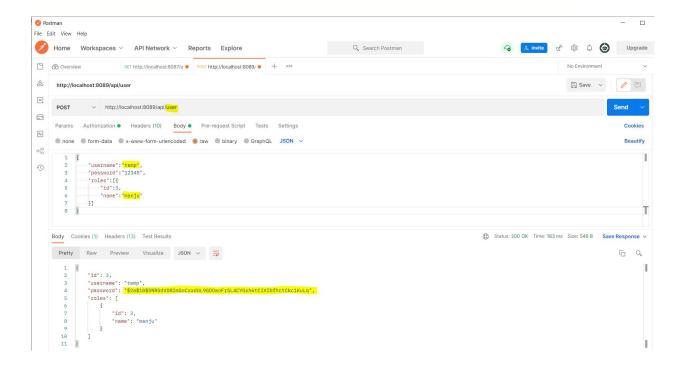
1.Add roles in the database dynamically in the db.

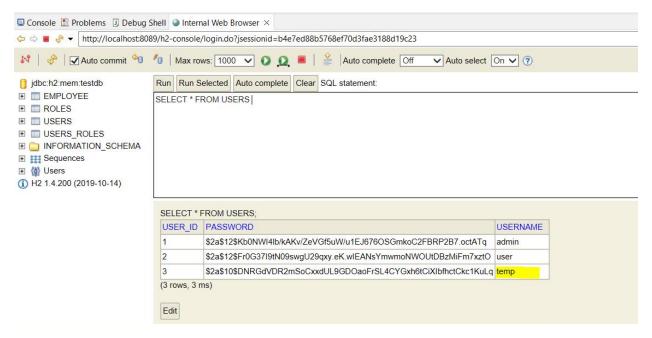
Where name specifies a role which can be assigned to a user that will be

used for authentication purposes while interacting with the api.



2. Add Users in the db which can be used for authentication purposes.

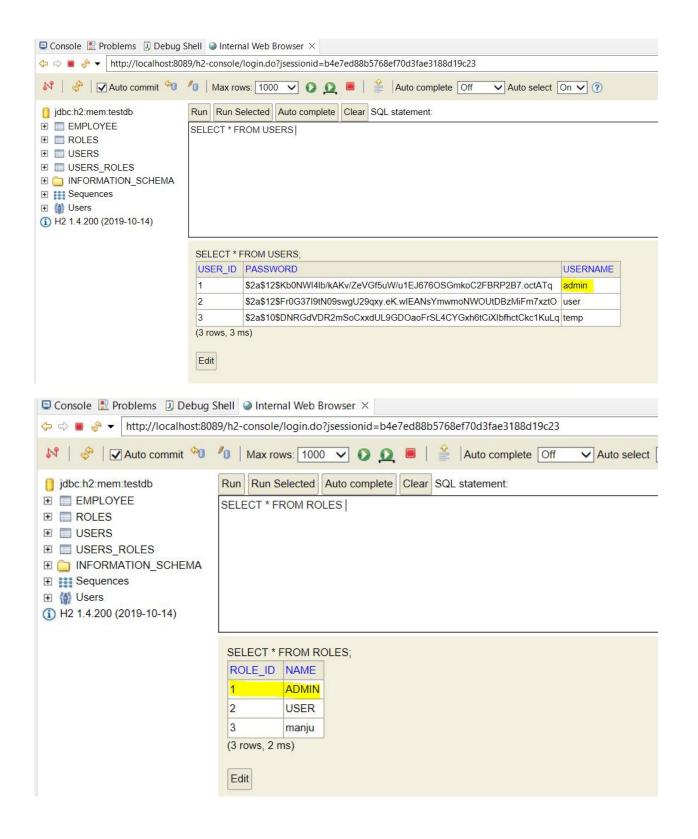


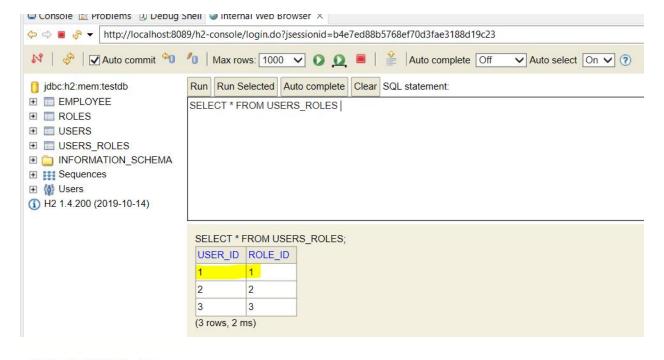


3. Add employees data in the db if and only if the authenticated user is ADMIN.

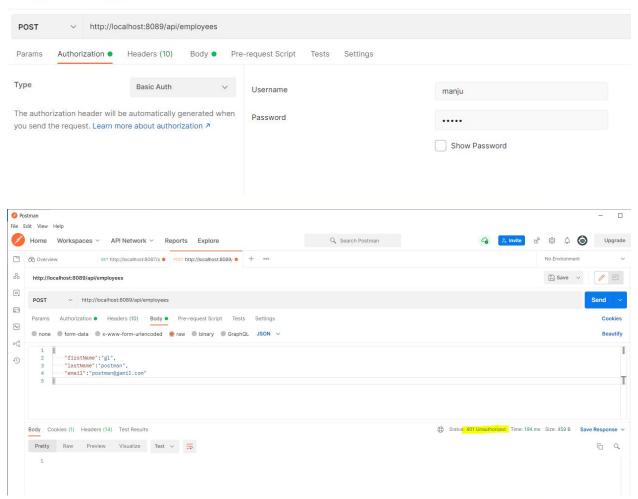
```
Ex-
```

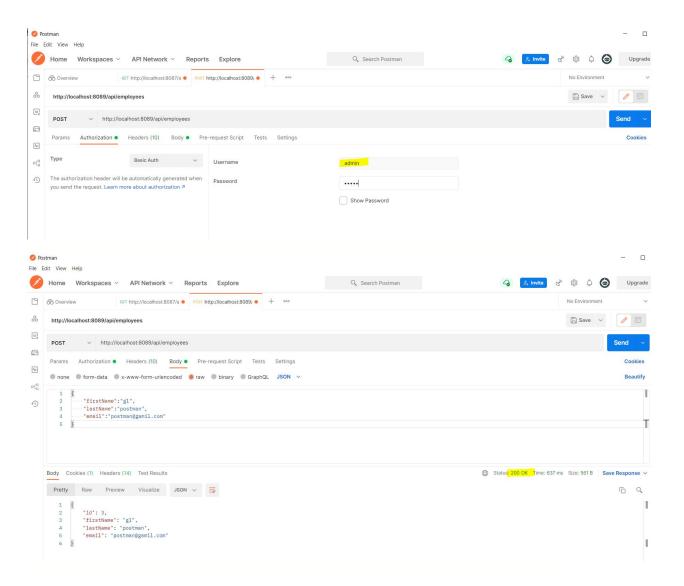
```
"firstName":"gl",
   "lastName":"postman",
   "email":"postman@gamil.com"
}
```

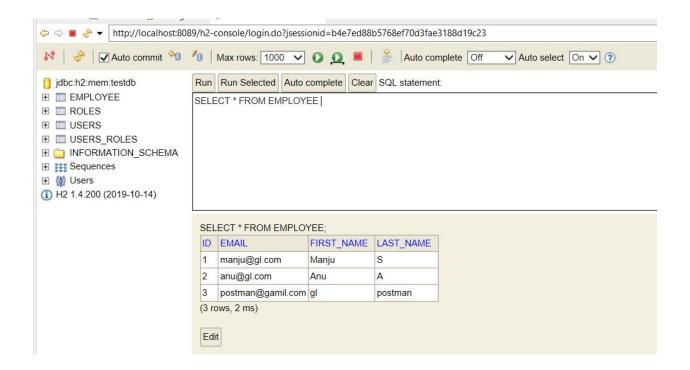




http://localhost:8089/api/employees







4. List all the employees stored in the database.

Ex-

```
Response Body-

[

    "id": 1,
    "firstName": "Ujjawal",
    "lastName": "Sharma",
    "email": "fdfdfd@gmail.com"
    },
    {
        "id": 2,
        "firstName": "temp",
        "lastName": "kaushik",
        "email": "jdfdkfdjj@gmail.com"
    },
```

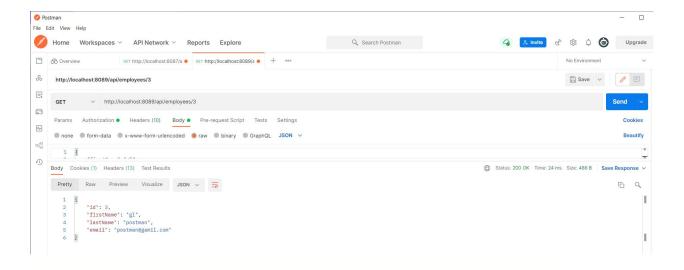
```
{
                       "id": 3,
                       "firstName": "postman",
                       "lastName": "postman",
                       "email": "postman@gamil.com"
              ]
Postman
File Edit View Help
Home Workspaces V API Network V Reports Explore
                                                                                          Q Search Postman
                                                                                                                                                G A Invite S<sup>®</sup> S □ Upgrade
      http://localhost:8089/api/employees
      GET v http://localhost:8089/api/employees
-
      Params Authorization • Headers (10) Body • Pre-request Script Tests Settings
      none form-data x-www-form-urlencoded raw binary GraphQL JSON
     1 8
     Body Cookies (1) Headers (13) Test Results
                                                                                                                                           Status: 200 OK Time: 32 ms Size: 618 B Save Response >
      Pretty Raw Preview Visualize JSON V
                    "id": 1,
"firstName": "Manju",
"lastName": "S",
"email": "manju@gl.com"
                    "id": 2,
"firstName": "Anu",
"lastName": "A",
"email": "anu@gl.com"
                    "id": 3,
"firstName": "g1",
"lastName": "postman",
"emai1": "postman@gamil.com"
```

5. Fetch or get an employee record specifically based on the id of that employee.

Ex- Url- http://localhost:8080/api/employees/3

```
Response Body-

{
    "id": 3,
    "firstName": "postman",
    "lastName": "postman",
    "email": "postman@gamil.com"
}
```



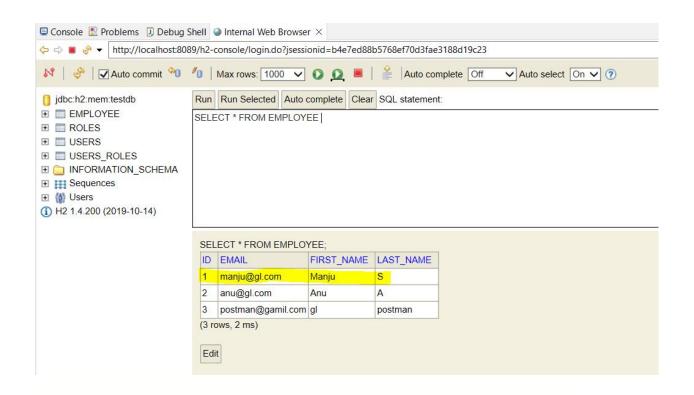
6. Update an existing employee record with the given updated json object.

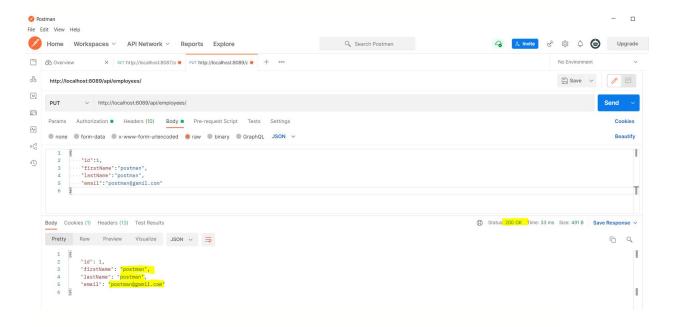
Ex-

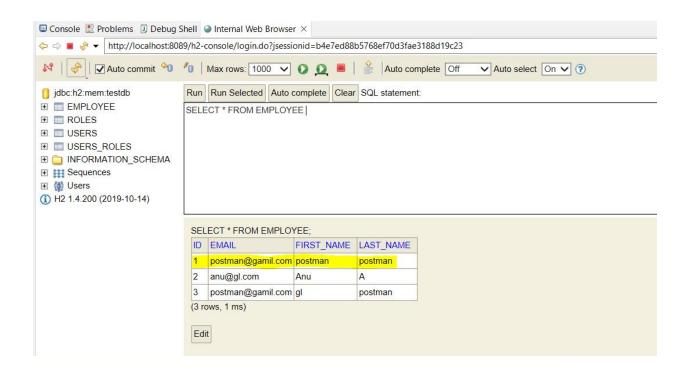
```
Object to be updated(raw->Json)-

{
    "id":1,
    "firstName":"postman",
    "email":"postman@gamil.com"
}

Response Body after updation-
{
    "id": 1,
    "firstName": "postman",
    "lastName": "postman",
    "lastName": "postman",
    "email": "postman@gamil.com"
}
```







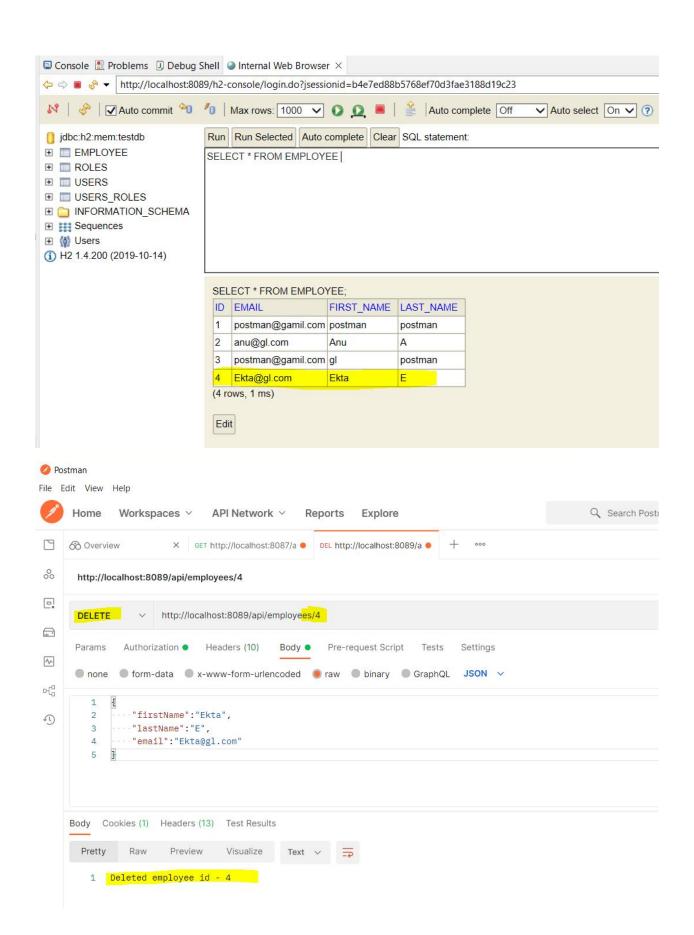
7. Delete an existing employee record based on the id of the employee.

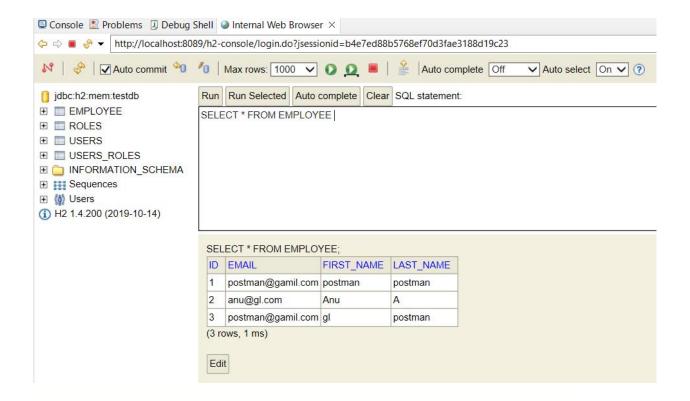
Ex-

Url- http://localhost:8080/api/employees/4

Response Body-

"Deleted employee id - 4"





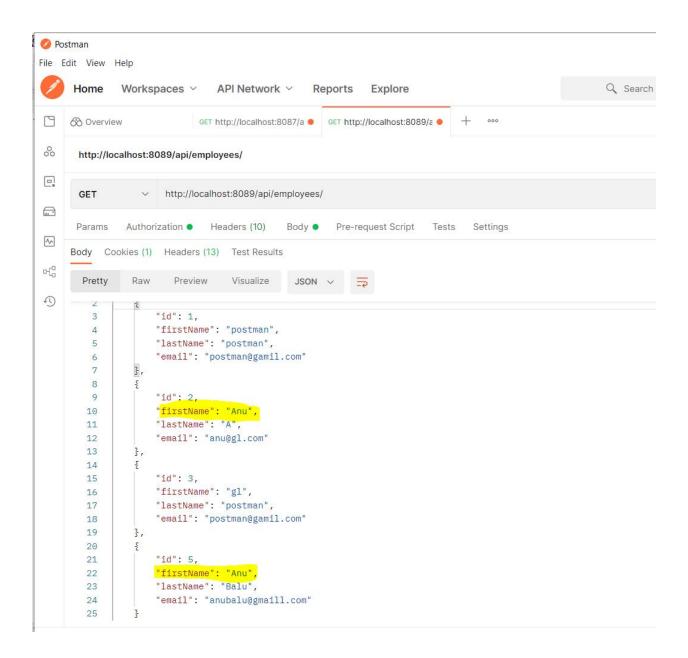
8. Fetch an employee by his/her first name and if found more than one record then list them all-

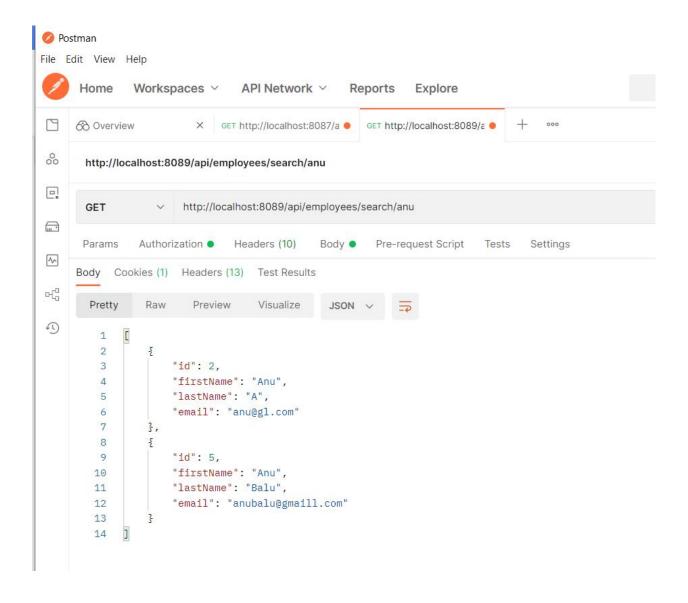
Ex-

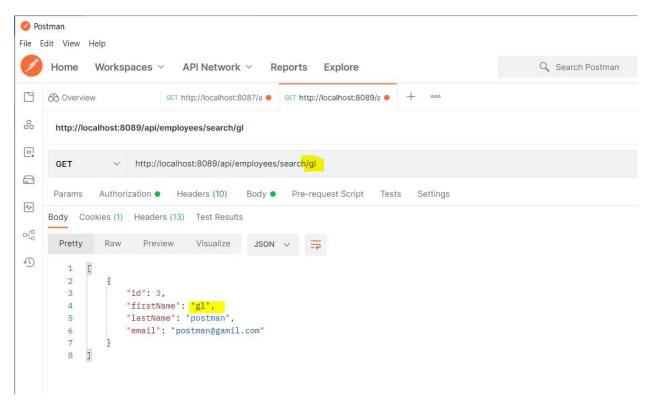
Url- http://localhost:8080/api/employees/search/gl

Response Body-

```
[
     "id": 11,
     "firstName": "gl",
     "lastName": "postman",
     "email": "postman@gamil.com"
   }
]
```



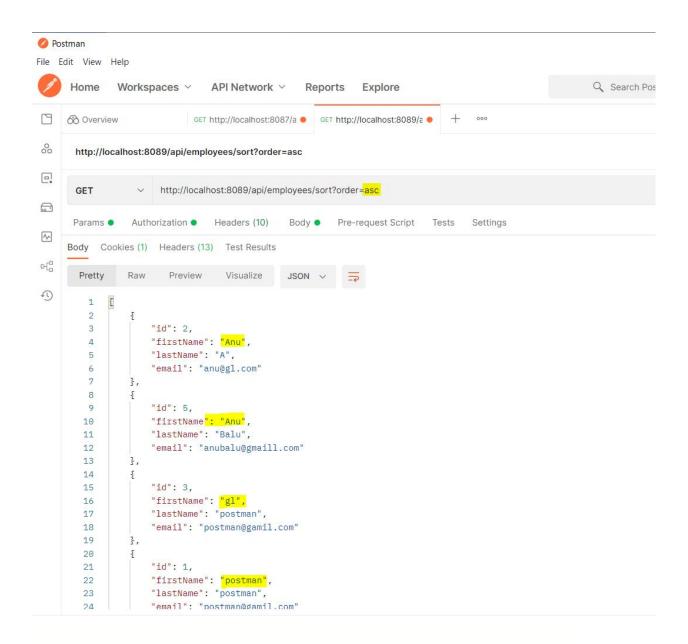




9. List all employee records sorted on their first name in either ascending order or descending order.

Ex-

Url- <a href="http://localhost:8080/api/employees/sort?order="asc" http://localhost:8080/api/employees/sort?order="asc" http://localhost:8080/api/employees/sorter="asc" http://localhost:8080/api/employees/sorter="a



Url- http://localhost:8080/api/employees/sort?order="desc"

