

Lindy Hagedorn

Week 15

Github: [https://github.com/lindhage22/SpringBootWk13\\_14](https://github.com/lindhage22/SpringBootWk13_14)

Video: <https://youtu.be/LImLD6T558E>

## Spring Boot Coding Assignment Week 15

### Overview

In prior weeks you worked to create a Spring Boot/Maven project and instructed Spring JPA to create the pet store tables. Then, you added a controller-layer class, a service-layer class, and a data-layer interface. Finally, you added methods to create a pet store row in the pet store table.

In this week's homework you will expand on the prior week's work to add employees and customers to the pet store. Then, you will complete the remaining CRUD operations on the pet store table:

- Retrieve summary data for all pet stores
- Retrieve a pet store by ID, along with all employee and customer data
- Delete a pet store by ID, along with all employee and customer data

### Objectives

This assignment has the following objectives:

- Demonstrate ability to manage Spring JPA relationships by adding child rows in a one-to-many relationship and a many-to-many relationship.
- Show continued mastery of Spring JPA by coding the retrieve pet store and delete pet store operations.

### Observe

Follow the instructions for making a video submission for this coding assignment. Your video should, at a minimum, do the following:

- Show that you can add a pet store employee to the employee table.

API Client

Environment: Default

...kx ...rx ...ex ...ex ...rx ...rx ...ex ...ex ...8x ...ex ...ex ...nx ...2x +

POST

http://localhost:8080/pet\_store/petstore/7/employee

HEADERS BODY AUTHORIZATION 0 ACTIONS 0 CONFIG CODE SNIPPETS

Raw input

JSON

```
1 {
2   "employeeFirstName": "Penny",
3   "employeeLastName": "Burns",
4   "employeeEmail": "Penny_burns@ngo.gov",
5   "employeeJobTitle": "Cage Cleaner"
6 }
```

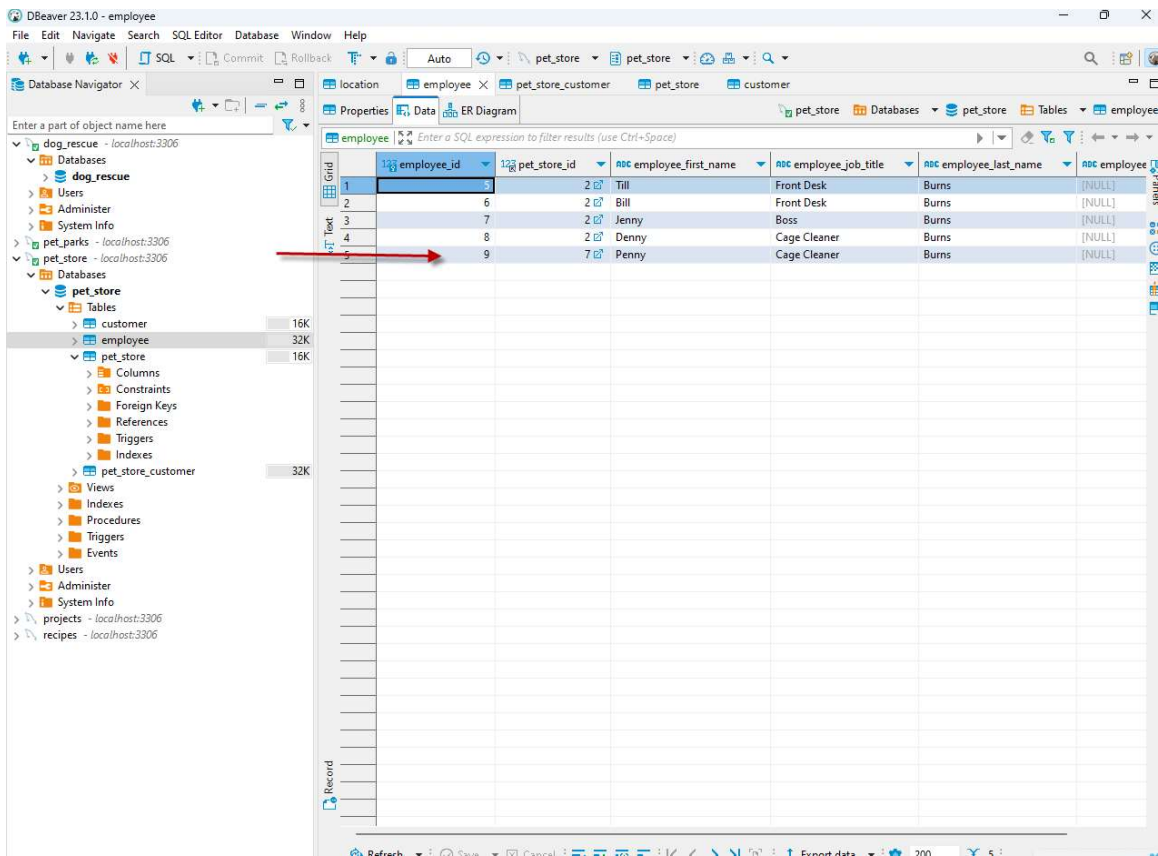
Response x

CLEAR

201

Time: 56 ms Size: 126 Bytes

```
1 [{"employeeId":9,"employeeFirstName":"Penny","employeeLastName":"Burns","employeePhone":null,"employeeJobTitle":"Cage Cleaner"}]
```



- Show that you can add a pet store customer to the customer table.

Advanced REST Client by MuleSoft

File Edit View Window Request Workspace Help

History API Client Environment: Default

POST http://localhost:8080/pe... 2 days ago at 08:18:57 ...

POST http://localhost:8080/pe... 2 days ago at 11:19:32 ...

PUT http://localhost:8080/pe... 2 days ago at 11:18:40 ...

PUT http://localhost:8080/pe... 2 days ago at 11:18:18 ...

GET http://localhost:8080/pe... 2 days ago at 11:16:39 ...

PUT http://localhost:8080/pe... 2 days ago at 10:15:16 ...

POST http://localhost:8080/pe... 3 days ago at 12:05:56 ...

TODAY

DELETE http://localhost:8080/pe... 3 days ago at 09:35:17 ...

DELETE http://localhost:8080/pe... 3 days ago at 08:13:55 ...

PUT http://localhost:8080/pe... 3 days ago at 07:58:56 ...

PUT http://localhost:8080/pe... 3 days ago at 07:57:20 ...

PUT http://localhost:8080/pe... 3 days ago at 07:56:26 ...

POST http://localhost:8080/pet\_store/petstore/2/customer

HEADERS BODY AUTHORIZATION 0 ACTIONS 0 CONFIG CODE SNIPPETS

Raw input JSON

```
1 {
2   "customerFirstName": "Dony",
3   "customerLastName": "Wash",
4   "customerEmail": "Dony.wash@gmail.com",
5   "customerPhone": "208-334-1182"
6 }
```

Response x CLEAR

201 Time: 25 ms Size: 107 Bytes

```
1 {
2   "customerId": 7,
3   "customerFirstName": "Dony",
4   "customerLastName": "Wash",
5   "customerEmail": "Dony.wash@gmail.com"
6 }
```

DBeaver 23.1.0 - customer

File Edit Navigate Search SQL Editor Database Window Help

pet\_store pet\_store customer

Database Navigator

dog\_rescue - localhost:3306

- Databases
- dog\_rescue
- Users
- Administer
- System Info

pet\_parks - localhost:3306

- Databases
- pet\_store - localhost:3306
- pet\_store
- Tables
- customer 16K
- employee 32K
- Columns
- Constraints
- Foreign Keys
- References
- Triggers
- Indexes

pet\_store

- Columns
- Constraints
- Foreign Keys
- References
- Triggers
- Indexes

pet\_store\_customer 32K

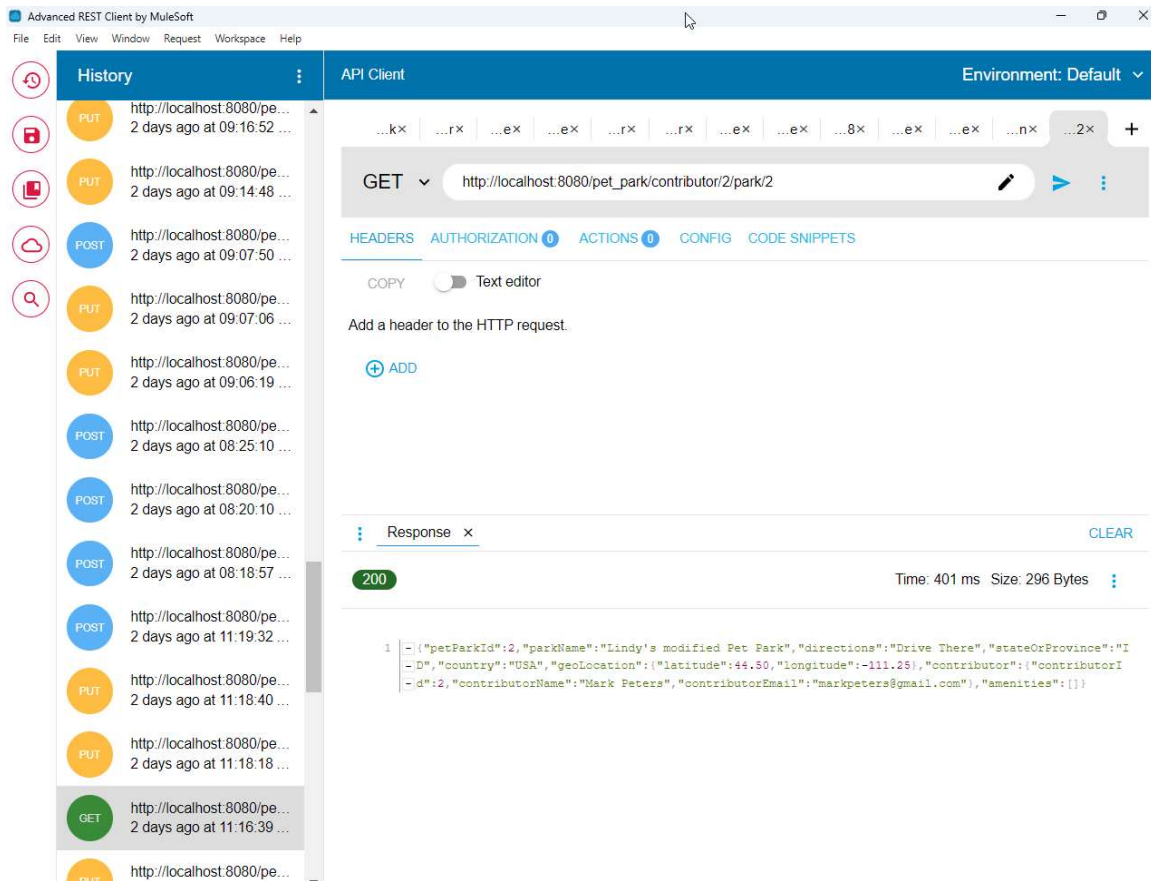
- Views
- Indexes
- Procedures

customer

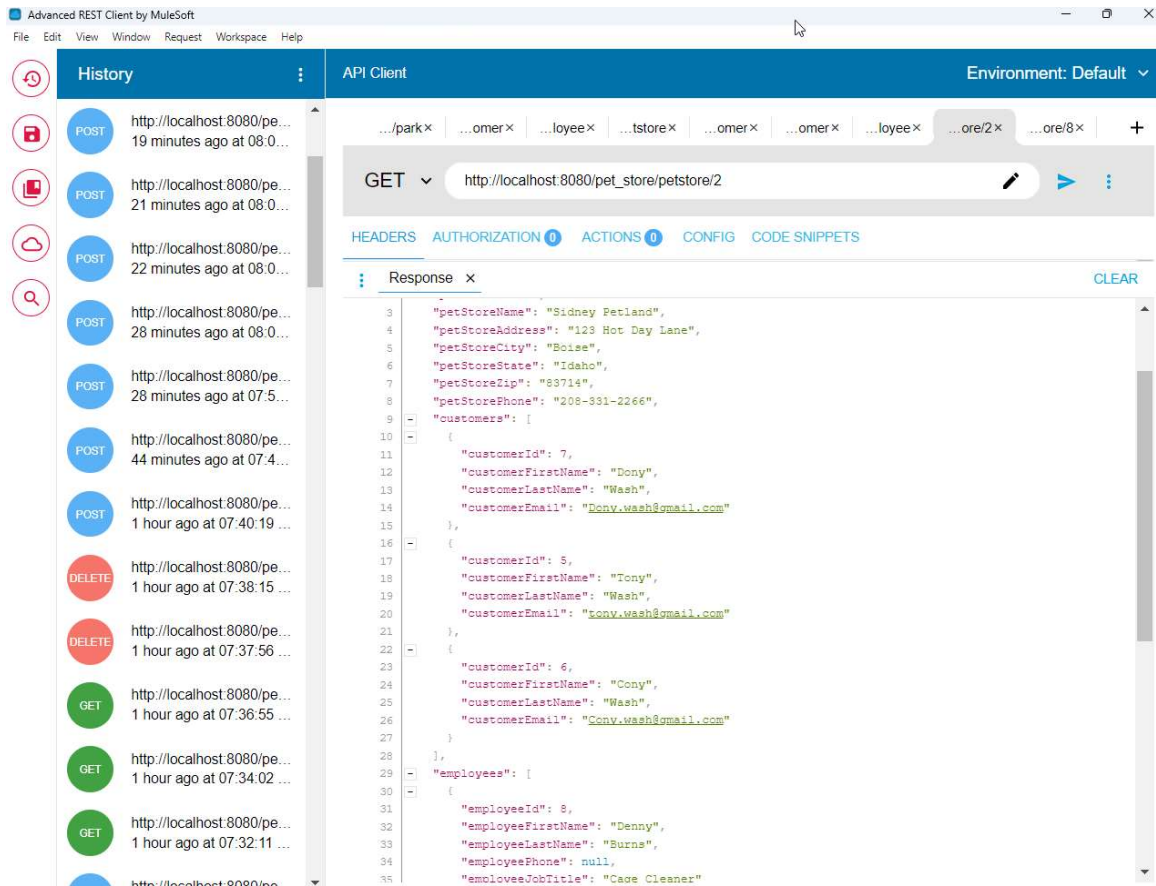
customer\_id customer\_email customer\_first\_name customer\_last\_name

1	tony@noodellas.us	Tony	Baloney
2	Lindy.Little@gmail.com	Lindy	Little
3	John.Little@gmail.com	John	Little
4	Katie.Little@gmail.com	Katie	Little
5	tony.wash@gmail.com	Tony	Wash
6	Dony.wash@gmail.com	Dony	Wash
7	Dony.wash@gmail.com	Dony	Wash

- Demonstrate that you can retrieve pet store summary information for all pet stores.



- Show that you can retrieve pet store data including employees and customers for a single pet store.



- Demonstrate that you can delete a pet store row, along with the child employee rows and customer join table rows without deleting the customer rows.

DBeaver 23.1.0 - pet\_store

File Edit Navigate Search SQL Editor Database Window Help

Database Navigator

Enter a part of object name here

- dog\_rescue - localhost:3306
  - Databases
  - Users
  - Administer
  - System Info
- pet\_parks - localhost:3306
  - Databases
  - pet\_store
    - Tables
      - customer 16K
      - employee 32K
      - Columns
      - Constraints
      - Foreign Keys
      - References
      - Triggers
      - Indexes
    - pet\_store 16K
    - pet\_store\_customer 32K
    - Views
    - Indexes
    - Procedures
    - Triggers
    - Events
  - Users
  - Administer
  - System Info
- projects - localhost:3306
- recipes - localhost:3306

pet\_store

Enter a SQL expression to filter results (use Ctrl+Space)

	pet_store_id	pet_store_address	pet_store_city	pet_store_name	pet_store_phone	pet_store_state
1	2	123 Hot Day Lane	Boise	Sidney Petland	208-331-2266	Idaho
2	7	8395 North Bladford Lane	Gangrene	Really Cool Pet Store	303-322-4995	Georgia
3	8	1456 Sunny Day Lane	Boise	Lindy's Pet Store	208-322-2295	Idaho
4	9	1456 Puppy Day Lane	Boise	Lindy's Pet Love	208-822-2295	Idaho

Refresh Save Cancel Export data 200 4







DBeaver 23.1.0 - employee

File Edit Navigate Search SQL Editor Database Window Help

pet\_store pet\_store pet\_store customer

Database Navigator

Enter a part of object name here

- dog\_rescue - localhost:3306
  - Databases
    - dog\_rescue
      - Users
        - Administer
        - System Info
      - pet\_parks - localhost:3306
      - pet\_store - localhost:3306
        - Databases
          - pet\_store
            - Tables
              - customer 16K
              - employee 32K
            - Columns
            - Constraints
            - Foreign Keys
            - References
            - Triggers
            - Indexes
          - pet\_store
            - Columns
            - Constraints
            - Foreign Keys
            - References
            - Triggers
            - Indexes
          - pet\_store\_customer 32K
          - Views
          - Indexes
          - Procedures
          - Triggers
          - Events
        - Users
          - Administer
          - System Info
        - projects - localhost:3306
        - recipes - localhost:3306

Properties Data ER Diagram

employee Enter a SQL expression to filter results (use Ctrl+Space)

employee_id	pet_store_id	employee_first_name	employee_job_title	employee_last_name	employee_email
1	2	Till	Front Desk	Burns	[NULL]
2	6	Bill	Front Desk	Burns	[NULL]
3	7	Jenny	Boss	Burns	[NULL]
4	8	Denny	Cage Cleaner	Burns	[NULL]
5	9	Penny	Cage Cleaner	Burns	[NULL]

Refresh Save Cancel Export data 200 5

DBeaver 23.1.0 - customer

File Edit Navigate Search SQL Editor Database Window Help

pet\_store pet\_store pet\_store customer

Database Navigator

Enter a part of object name here

- dog\_rescue - localhost:3306
  - Databases
    - dog\_rescue
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        - Administer
        - System Info
      - pet\_parks - localhost:3306
      - pet\_store - localhost:3306
        - Databases
          - pet\_store
            - Tables
              - customer 16K
              - employee 32K
            - Columns
            - Constraints
            - Foreign Keys
            - References
            - Triggers
            - Indexes
          - pet\_store
            - Columns
            - Constraints
            - Foreign Keys
            - References
            - Triggers
            - Indexes
          - pet\_store\_customer 32K
          - Views
          - Indexes
          - Procedures
          - Triggers
          - Events
        - Users
          - Administer
          - System Info
        - projects - localhost:3306
        - recipes - localhost:3306

Properties Data ER Diagram

customer Enter a SQL expression to filter results (use Ctrl+Space)

customer_id	customer_email	customer_first_name	customer_last_name
1	tony@noodellas.r.us	Tony	Baloney
2	Lindy.Little@gmail.com	Lindy	Little
3	John.Little@gmail.com	John	Little
4	Katie.Little@gmail.com	Katie	Little
5	tony.wash@gmail.com	Tony	Wash
6	Cony.wash@gmail.com	Cony	Wash
7	Dony.wash@gmail.com	Dony	Wash
8	Dony.wash@gmail.com	Dony	Wash
9	Sony.wash@gmail.com	Sony	Wash
10	Emma.wash@gmail.com	Emma	Wash

