

Add into Sailors Table:

POST http://localhost:3030/sailors/?S_name=Kate&B_date=1980-05-01&Rate=9 Send

Params Authorization Headers (7) Body Pre-request Script Tests Settings Cookies

Query Params

	Key	Value	Description	...	Bulk Edit
<input checked="" type="checkbox"/>	S_name	Kate			
<input checked="" type="checkbox"/>	B_date	1980-05-01			
<input checked="" type="checkbox"/>	Rate	9			
	Key	Value	Description		

Body Cookies Headers (5) Test Results

Status: 200 OK Time: 42 ms Size: 187 B Save as example

Pretty Raw Preview Visualize Text

1 Sailor added.

```
mysql> SELECT * FROM Sailors;
+-----+-----+-----+-----+
| S_id | S_name | B_date   | Rate |
+-----+-----+-----+-----+
| 1    | Kate   | 1980-05-01 | 9    |
| 2    | Sarah  | 1976-10-13 | 4    |
| 3    | Sam    | 1989-12-19 | 3    |
| 4    | Scott  | 1969-01-23 | 0    |
+-----+-----+-----+-----+
4 rows in set (0.00 sec)

mysql>
```

Add into Boats Table:

The screenshot shows a REST client interface with a POST request to `http://localhost:3030/boats/?B_name=Sky&Type=Fishing vessel`. The request parameters are `B_name=Sky` and `Type=Fishing vessel`. The response status is 200 OK, and the body contains the message: "1 Boat added successfully."

Query Params

Key	Value	Description
<input checked="" type="checkbox"/> B_name	Sky	
<input checked="" type="checkbox"/> Type	Fishing vessel	
Key	Value	Description

Body: 1 Boat added successfully.

```
[mysql> SELECT * FROM Boats;
+-----+-----+-----+
| B_id | B_name | Type      |
+-----+-----+-----+
| 1    | Sky    | Fishing vessel |
| 2    | Silver | Bass boat  |
| 3    | Rose   | Sloop     |
| 4    | Arrow  | Sailboat   |
+-----+-----+-----+
4 rows in set (0.01 sec)

mysql>
```

Add into Reserves Table:

```
[mysql]> SELECT * FROM Reserves;
+-----+-----+-----+
| S_id | B_id | Day      |
+-----+-----+-----+
| 1    | 1    | 2019-01-07 |
| 1    | 1    | 2019-10-09 |
| 1    | 1    | 2020-12-17 |
| 4    | 2    | 2019-01-07 |
| 2    | 3    | 2018-11-13 |
| 3    | 3    | 2020-05-06 |
| 1    | 4    | 2020-05-06 |
+-----+-----+-----+
7 rows in set (0.00 sec)

mysql>
```

POST http://localhost:3030/reserves?S_id=1&B_id=1&Day=2019-01-07 Send

Params Authorization Headers (7) Body Pre-request Script Tests Settings Cookies

Query Params

	Key	Value	Description	...	Bulk Edit
<input checked="" type="checkbox"/>	S_id	1			
<input checked="" type="checkbox"/>	B_id	1			
<input checked="" type="checkbox"/>	Day	2019-01-07			
	Key	Value	Description		

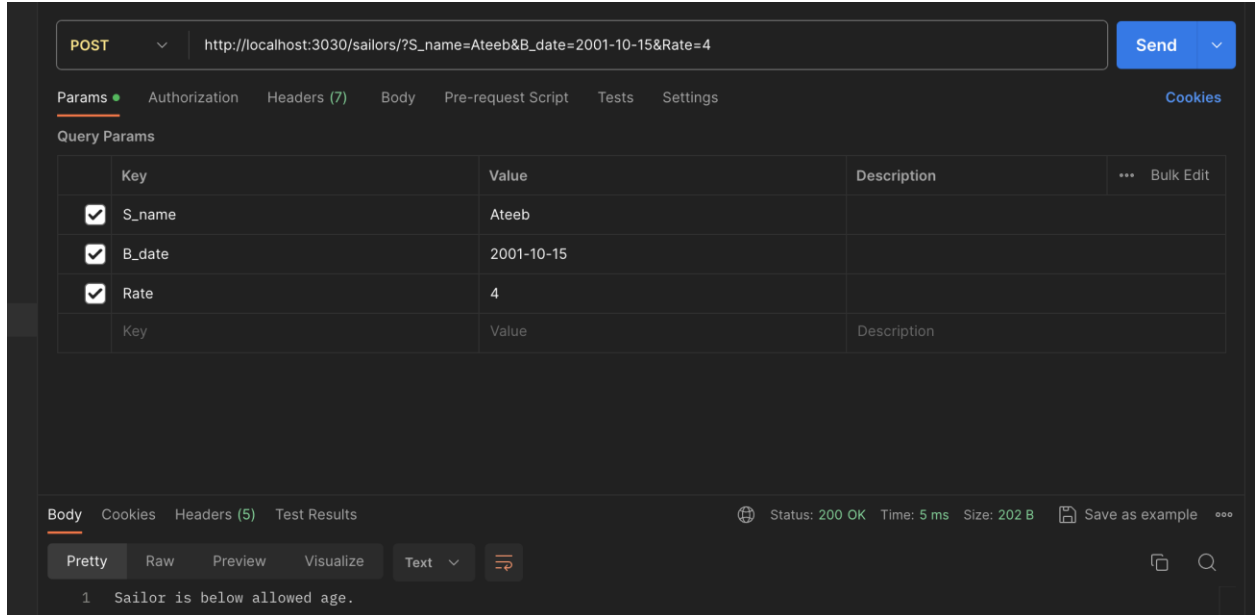
Body Cookies Headers (5) Test Results

Status: 200 OK Time: 5 ms Size: 205 B Save as example

Pretty Raw Preview Visualize Text

1 Reservation added successfully.

1. Sailors must be at least 24 years old to be added to your database.



POST ▼ http://localhost:3030/sailors/?S_name=Ateeb&B_date=2001-10-15&Rate=4 Send ▼

Params ● Authorization Headers (7) Body Pre-request Script Tests Settings Cookies

Query Params

	Key	Value	Description	...	Bulk Edit
<input checked="" type="checkbox"/>	S_name	Ateeb			
<input checked="" type="checkbox"/>	B_date	2001-10-15			
<input checked="" type="checkbox"/>	Rate	4			
	Key	Value	Description		

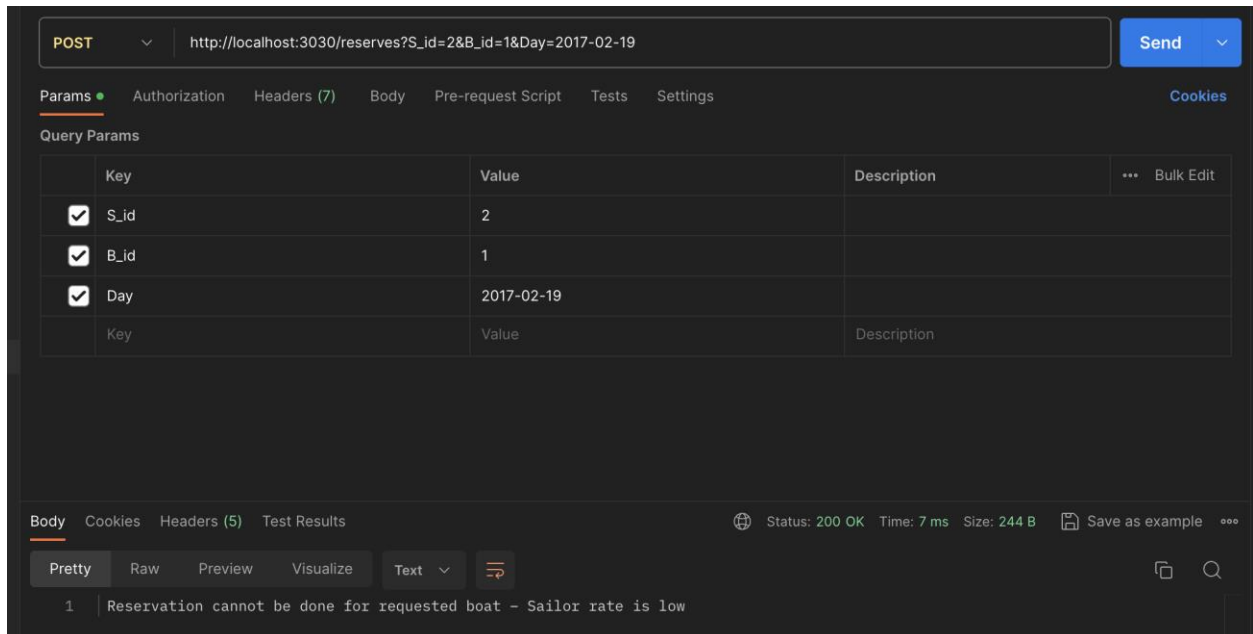
Body Cookies Headers (5) Test Results ⊕ Status: 200 OK Time: 5 ms Size: 202 B Save as example ...

Pretty Raw Preview Visualize Text ▼ ↔

```
1 Sailor is below allowed age.
```

2. For reservations:

- a. To reserve a Fishing vessel the sailor's rate must be higher than 7.



POST ▼ http://localhost:3030/reserves?S_id=2&B_id=1&Day=2017-02-19 Send ▼

Params ● Authorization Headers (7) Body Pre-request Script Tests Settings Cookies

Query Params

	Key	Value	Description	...	Bulk Edit
<input checked="" type="checkbox"/>	S_id	2			
<input checked="" type="checkbox"/>	B_id	1			
<input checked="" type="checkbox"/>	Day	2017-02-19			
	Key	Value	Description		

Body Cookies Headers (5) Test Results ⊕ Status: 200 OK Time: 7 ms Size: 244 B Save as example ...

Pretty Raw Preview Visualize Text ▼ ↔

```
1 Reservation cannot be done for requested boat - Sailor rate is low
```

b. To reserve a Sailboat the sailor's rate must be higher than 5.

POST http://localhost:3030/reserves?S_id=3&B_id=4&Day=2018-10-29

Params Authorization Headers (7) Body Pre-request Script Tests Settings Cookies

Query Params

Key	Value	Description	...	Bulk Edit
<input checked="" type="checkbox"/> S_id	3			
<input checked="" type="checkbox"/> B_id	4			
<input checked="" type="checkbox"/> Day	2018-10-29			
Key	Value	Description		

Body Cookies Headers (5) Test Results

Status: 200 OK Time: 4 ms Size: 244 B Save as example

Pretty Raw Preview Visualize Text

1 Reservation cannot be done for requested boat - Sailor rate is low

c. Sailors with rate less than or equal to 2 can only reserve a Bass boat.

```
[mysql> SELECT * FROM Reserves;
+-----+-----+-----+
| S_id | B_id | Day      |
+-----+-----+-----+
| 1    | 1    | 2019-01-07 |
| 1    | 1    | 2019-10-09 |
| 4    | 2    | 2019-01-07 |
+-----+-----+-----+
3 rows in set (0.00 sec)

mysql>
```

POST http://localhost:3030/reserves?S_id=4&B_id=1&Day=2019-01-07

Params Authorization Headers (7) Body Pre-request Script Tests Settings Cookies

Query Params

Key	Value	Description	...	Bulk Edit
<input checked="" type="checkbox"/> S_id	4			
<input checked="" type="checkbox"/> B_id	1			
<input checked="" type="checkbox"/> Day	2019-01-07			
Key	Value	Description		

Body Cookies Headers (5) Test Results

Status: 200 OK Time: 4 ms Size: 244 B Save as example

Pretty Raw Preview Visualize Text

1 Reservation cannot be done for requested boat - Sailor rate is low

The customized reports that need to be generated by your implementation are:

1. Display the boat id and name reserved before a given date.

GET <http://localhost:3030/reserves/before?date=2020-05-06> Send

Params • Authorization Headers (6) Body Pre-request Script Tests Settings Cookies

Query Params

	Key	Value	Description	...	Bulk Edit
<input checked="" type="checkbox"/>	date	2020-05-06			
	Key	Value	Description		

Body Cookies Headers (5) Test Results Status: 200 OK Time: 12 ms Size: 202 B Save as example

Pretty Raw Preview Visualize Text

```
1 1 Sky
2 1 Sky
3 2 Silver
4 3 Rose
5
```

2. Display the boat id and name reserved after a given date.

GET <http://localhost:3030/reserves/after?date=2020-05-05> Send

Params • Authorization Headers (6) Body Pre-request Script Tests Settings Cookies

Query Params

	Key	Value	Description	...	Bulk Edit
<input checked="" type="checkbox"/>	date	2020-05-05			
	Key	Value	Description		

Body Cookies Headers (5) Test Results Status: 200 OK Time: 7 ms Size: 195 B Save as example

Pretty Raw Preview Visualize Text

```
1 1 Sky
2 3 Rose
3 4 Arrow
4
```

3. Display boat id and names of a given type.

The screenshot shows a Postman interface with a GET request to `http://localhost:3030/boats/list?Type=Bass boat`. The 'Params' tab is active, showing a query parameter 'Type' with the value 'Bass boat'. The 'Body' tab is also active, showing the response body in 'Pretty' format. The response status is '200 OK' with a time of '5 ms' and a size of '183 B'. The response body is a JSON array with one object: `[{"id": 1, "name": "Silver"}]`.

Key	Value	Description
Type	Bass boat	

```
1  { "id": 1, "name": "Silver" }
```

4. Display the count of boats of a given type.

The screenshot shows a Postman interface with a GET request to `http://localhost:3030/boats/count?Type=Sailboat`. The 'Params' tab is active, showing a query parameter 'Type' with the value 'Sailboat'. The 'Body' tab is also active, showing the response body in 'Pretty' format. The response status is '200 OK' with a time of '3 ms' and a size of '219 B'. The response body is a JSON object: `{ "count": 1 }`.

Key	Value	Description
Type	Sailboat	

```
1  { "count": 1 }
```

GET http://localhost:3030/boats/count?Type=Yacht Send

Params Authorization Headers (6) Body Pre-request Script Tests Settings Cookies

Query Params

	Key	Value	Description	...	Bulk Edit
<input checked="" type="checkbox"/>	Type	Yacht			
	Key	Value	Description		

Body Cookies Headers (5) Test Results

Status: 200 OK Time: 6 ms Size: 216 B Save as example

Pretty Raw Preview Visualize Text

```
1 The number of Boats of the type Yacht is 0
```

5. Display all sailors who are older than a given age.

GET http://localhost:3030/sailors/older?Age=37 Send

Params Authorization Headers (6) Body Pre-request Script Tests Settings Cookies

Query Params

	Key	Value	Description	...	Bulk Edit
<input checked="" type="checkbox"/>	Age	37			
	Key	Value	Description		

Body Cookies Headers (5) Test Results

Status: 200 OK Time: 5 ms Size: 377 B Save as example

Pretty Raw Preview Visualize Text

```
1 1 Kate Thu May 01 1980 00:00:00 GMT-0400 (Eastern Daylight Time) 9
2 2 Sarah Wed Oct 13 1976 00:00:00 GMT-0400 (Eastern Daylight Time) 4
3 4 Scott Thu Jan 23 1969 00:00:00 GMT-0500 (Eastern Standard Time) 0
4
```


6. Display all sailor who are younger than a given age.

The screenshot shows a REST client interface with the following details:

- Method:** GET
- URL:** http://localhost:3030/sailors/younger?Age=35
- Params:** Authorization, Headers (6), Body, Pre-request Script, Tests, Settings
- Query Params:**

	Key	Value	Description	...	Bulk Edit
<input checked="" type="checkbox"/>	Age	35			
	Key	Value	Description		
- Body:** Cookies, Headers (5), Test Results
- Status:** 200 OK, Time: 6 ms, Size: 240 B
- Response:**

```
1 3 Sam Tue Dec 19 1989 00:00:00 GMT-0500 (Eastern Standard Time) 3
2
```

Update Sailors Table:

PUT

http://localhost:3030/sailors?S_name=Kate%20Goldberg&S_id=3

Send

Params

Authorization

Headers (7)

Body

Pre-request Script

Tests

Settings

Cookies

Query Params

	Key	Value	Description	...	Bulk Edit
<input checked="" type="checkbox"/>	S_name	Kate Goldberg			
<input checked="" type="checkbox"/>	S_id	3			
	Key	Value	Description		

Body

Cookies

Headers (4)

Test Results

Status: 200 OK

Time: 9 ms

Size: 148 B

Save as example

Pretty

Raw

Preview

Visualize

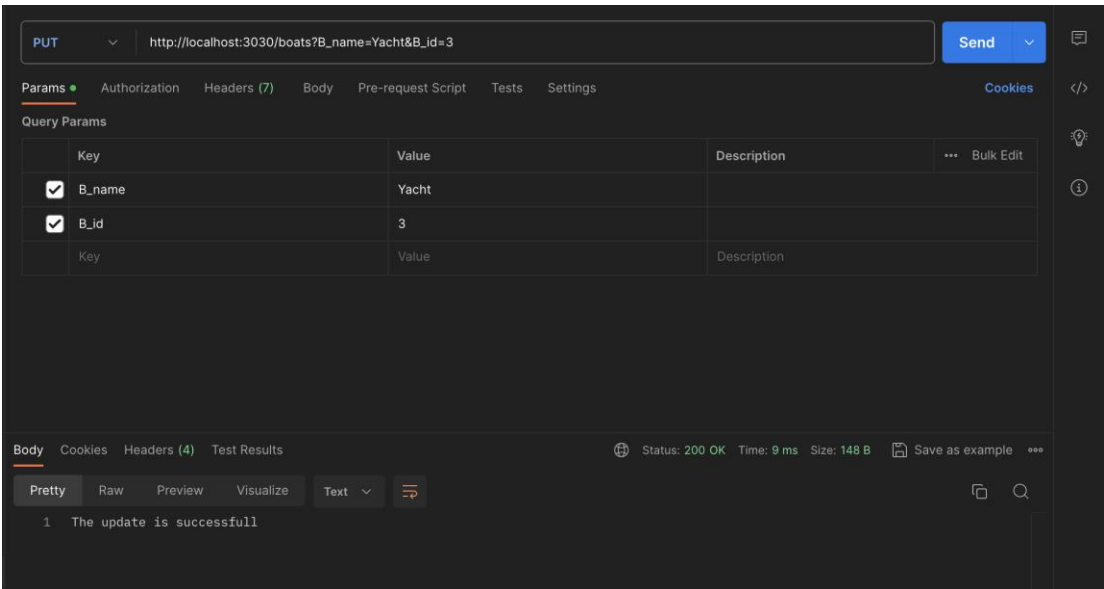
Text

1

The update is successful

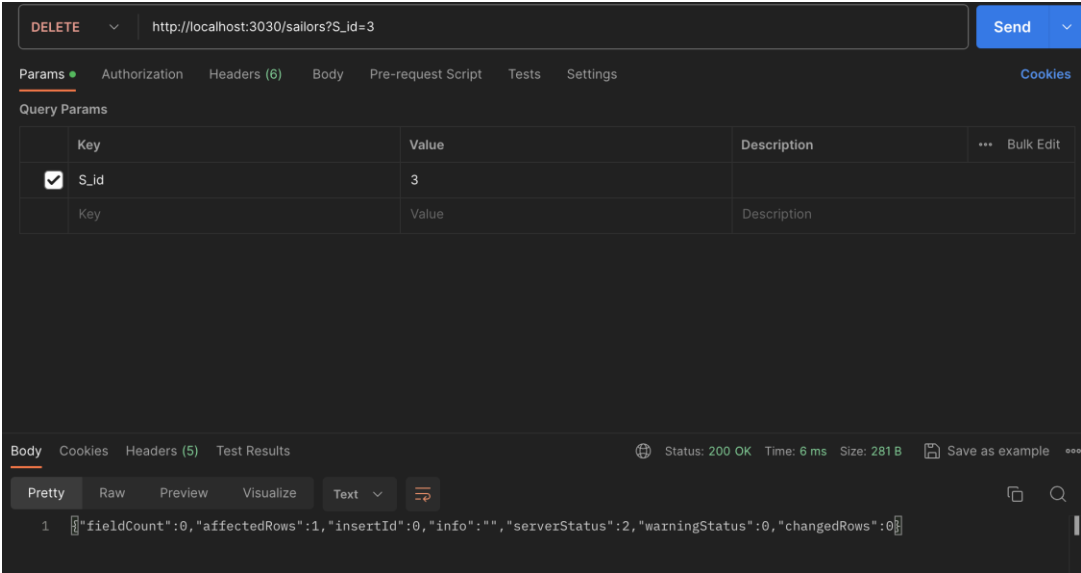
Before Update	<pre>[mysql> SELECT * FROM Sailors; +-----+-----+-----+-----+ S_id S_name B_date Rate +-----+-----+-----+-----+ 1 Kate 1980-05-01 9 2 Sarah 1976-10-13 4 3 Sam 1989-12-19 3 4 Scott 1969-01-23 0 +-----+-----+-----+-----+ 4 rows in set (0.00 sec)</pre>
After Update	<pre>[mysql> SELECT * FROM Sailors; +-----+-----+-----+-----+ S_id S_name B_date Rate +-----+-----+-----+-----+ 1 Kate 1980-05-01 9 2 Sarah 1976-10-13 4 3 Kate Goldberg 1989-12-19 3 4 Scott 1969-01-23 0 +-----+-----+-----+-----+ 4 rows in set (0.00 sec)</pre>

Update Boats Table:



Before Update	<pre>[mysql> SELECT * FROM Boats; +-----+-----+-----+ B_id B_name Type +-----+-----+-----+ 1 Sky Fishing vessel 2 Silver Bass boat 3 Rose Sloop 4 Arrow Sailboat +-----+-----+-----+ 4 rows in set (0.01 sec)</pre>
After Update	<pre>[mysql> SELECT * FROM Boats; +-----+-----+-----+ B_id B_name Type +-----+-----+-----+ 1 Sky Fishing vessel 2 Silver Bass boat 3 Yacht Sloop 4 Arrow Sailboat +-----+-----+-----+ 4 rows in set (0.00 sec) mysql> █</pre>

DELETE from Sailors Table:



	Sailors	Reserves
Before deleting	<pre>[mysql> SELECT * FROM Sailors; +-----+-----+-----+-----+ S_id S_name B_date Rate +-----+-----+-----+-----+ 1 Kate 1980-05-01 9 2 Sarah 1976-10-13 4 3 Kate Goldberg 1989-12-19 3 4 Scott 1969-01-23 0 +-----+-----+-----+-----+ 4 rows in set (0.00 sec)</pre>	<pre>[mysql> SELECT * FROM Reserves; +-----+-----+-----+ S_id B_id Day +-----+-----+-----+ 1 1 2019-01-07 1 1 2019-10-09 1 1 2020-12-17 4 2 2019-01-07 2 3 2018-11-13 3 3 2020-05-06 1 4 2020-05-06 +-----+-----+-----+ 7 rows in set (0.00 sec)</pre>
After deleting	<pre>[mysql> SELECT * FROM Sailors; +-----+-----+-----+ S_id S_name B_date +-----+-----+-----+ 1 Kate 1980-05-01 2 Sarah 1976-10-13 4 Scott 1969-01-23 +-----+-----+-----+ 3 rows in set (0.00 sec)</pre>	<pre>[mysql> SELECT * FROM Reserves; +-----+-----+-----+ S_id B_id Day +-----+-----+-----+ 1 1 2019-01-07 1 1 2019-10-09 1 1 2020-12-17 4 2 2019-01-07 2 3 2018-11-13 1 4 2020-05-06 +-----+-----+-----+ 6 rows in set (0.00 sec)</pre>

DELETE from Boatss Table:

DELETE

http://localhost:3030/boats?B_id=1

Send

Params

Authorization

Headers (6)

Body

Pre-request Script

Tests

Settings

Cookies

Query Params

	Key	Value	Description	...	Bulk Edit
<input checked="" type="checkbox"/>	B_id	1			
	Key	Value	Description		

Body

Cookies

Headers (5)

Test Results

Status: 200 OK

Time: 9 ms

Size: 281 B

Save as example

Pretty

Raw

Preview

Visualize

Text

1

```
{
  "fieldCount": 0,
  "affectedRows": 1,
  "insertId": 0,
  "info": "",
  "serverStatus": 2,
  "warningStatus": 0,
  "changedRows": 0
}
```

	Boats	Reserves
Before deleting	<pre>[mysql> SELECT * FROM Boats; +-----+-----+-----+ B_id B_name Type +-----+-----+-----+ 1 Sky Fishing ve 2 Silver Bass boat 3 Yacht Sloop 4 Arrow Sailboat +-----+-----+-----+ 4 rows in set (0.00 sec)</pre>	<pre>[mysql> SELECT * FROM Reserve +-----+-----+-----+ S_id B_id Day +-----+-----+-----+ 1 1 2019-01-07 1 1 2019-10-09 1 1 2020-12-17 4 2 2019-01-07 2 3 2018-11-13 1 4 2020-05-06 +-----+-----+-----+ 6 rows in set (0.00 sec)</pre>
After deleting	<pre>[mysql> SELECT * FROM Boats; +-----+-----+-----+ B_id B_name Type +-----+-----+-----+ 2 Silver Bass boat 3 Yacht Sloop 4 Arrow Sailboat +-----+-----+-----+ 3 rows in set (0.01 sec)</pre>	<pre>[mysql> SELECT * FROM Reserve +-----+-----+-----+ S_id B_id Day +-----+-----+-----+ 4 2 2019-01-07 2 3 2018-11-13 1 4 2020-05-06 +-----+-----+-----+ 3 rows in set (0.00 sec)</pre>

DELETE from reserves Table:

DELETE

http://localhost:3030/reserves?S_id=4&B_id=2&Day=2019-01-07

Send

Params

Authorization

Headers (6)

Body

Pre-request Script

Tests

Settings

Cookies

Query Params

	Key	Value	Description	...	Bulk Edit
<input checked="" type="checkbox"/>	S_id	4			
<input checked="" type="checkbox"/>	B_id	2			
<input checked="" type="checkbox"/>	Day	2019-01-07			
	Key	Value	Description		

Body

Cookies

Headers (5)

Test Results

Status: 200 OK

Time: 10 ms

Size: 281 B

Save as example

Pretty

Raw

Preview

Visualize

Text

1

```
{ "fieldCount":0, "affectedRows":1, "insertId":0, "info":"", "serverStatus":2, "warningStatus":0, "changedRows":0 }
```

Before deleting	<pre>[mysql> SELECT * FROM Reserves; +-----+-----+-----+ S_id B_id Day +-----+-----+-----+ 4 2 2019-01-07 2 3 2018-11-13 1 4 2020-05-06 +-----+-----+-----+ 3 rows in set (0.00 sec)</pre>
After Deleting	<pre>[mysql> SELECT * FROM Reserves; +-----+-----+-----+ S_id B_id Day +-----+-----+-----+ 2 3 2018-11-13 1 4 2020-05-06 +-----+-----+-----+ 2 rows in set (0.00 sec) mysql></pre>