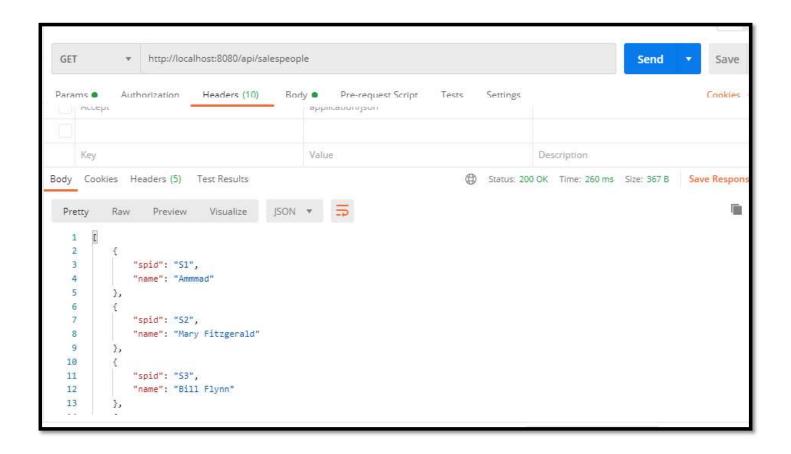
4.1.1 GET /api/salespeople

Returns an array of JSON objects containing the spid and name of all salespeople.



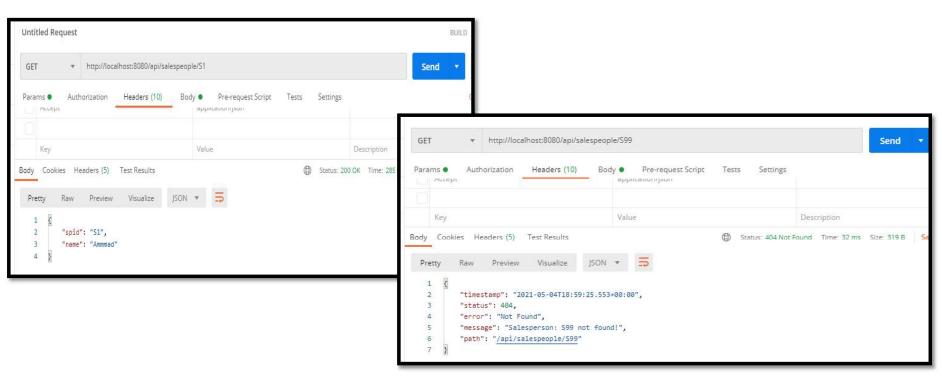


4.1.2 GET /api/salespeople/{spid}

Returns a JSON object containing the *spid* and *name* of the salesperson whose spid is equal to the spid in the URL.

If no salesperson with the specified spid exists, a HTTP 404 response should be returned with the error message: "Salesperson {spid} not found." where {spid} is the spid in the URL.





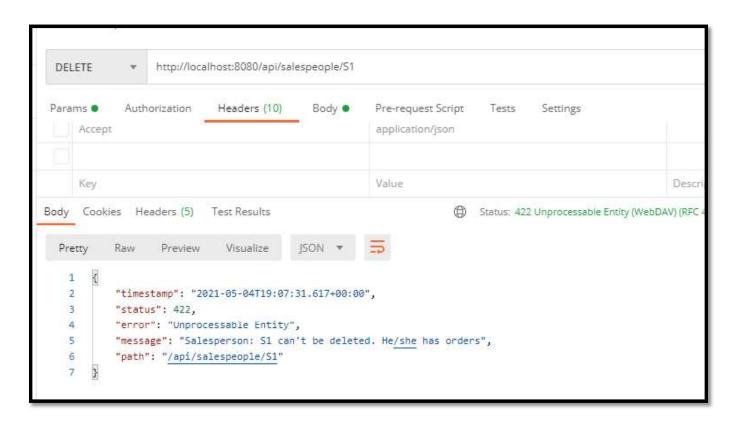
4.1.3 DELETE /api/salespeople/{spid}

Deletes the salesperson whose spid is equal to the spid in the URL and returns a HTTP 200 response.

If no salesperson with the specified spid exists, a HTTP 200 response should still be returned.

If the salesperson with the specified spid exists, but has associated orders, a HTTP 422 response should be returned with the error message:

"salesperson (spid) can't be deleted. He/she has orders." where (spid) is the spid in the URL.

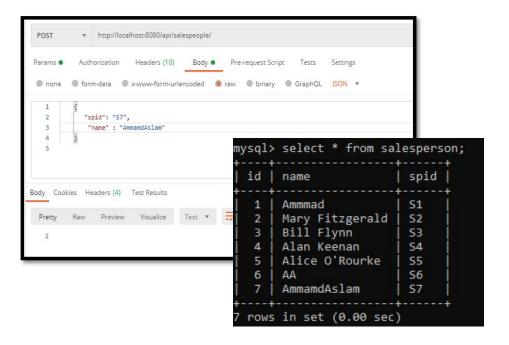


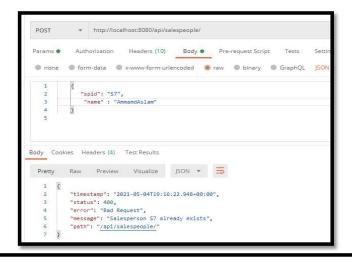
4.1.4 POST /api/salespeople

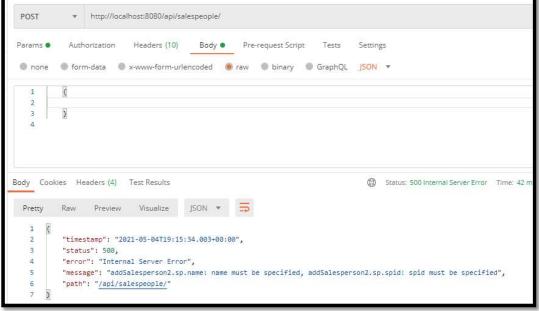
Persists the salesperson object specified in the request body to the database. The salesperson object must contain *spid* and *name*.

If either of these attributes are not present a HTTP 500 response should be returned with an appropriate error message.

If a salesperson with the specified spid already exists, a HTTP 422 response should be returned with the following error message: "salesperson: {spid} already exists" where {spid} is the spid in the request body.





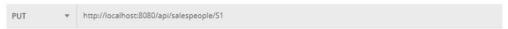


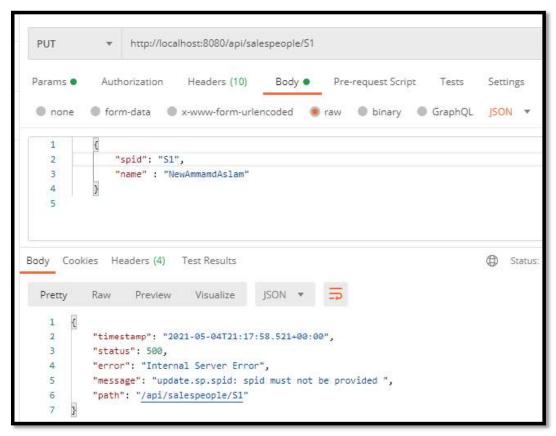
4.1.5 PUT /api/salespeople/{spid}

Updates the salesperson with the *spid* specified in the URL with the attributes specified in the request body. The request body should only contain the *name* attribute.

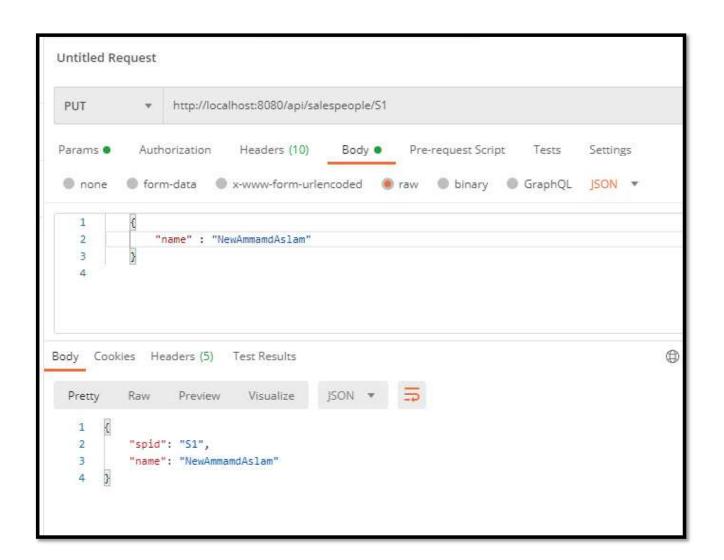
If any other attributes are present, a HTTP 500 response should be returned with an appropriate error message.

If no salesperson with the specified spid exists, a HTTP 404 response should be returned with the error message: "Salesperson {spid} not found." where {spid} is the spid in the URL.





```
nysql> select * from salesperson;
                       spid
 id | name
     Ammmad
                       51
 2 | Mary Fitzgerald
                       52
     Bill Flynn
                       53
     Alan Keenan
                       54
     Alice O'Rourke
                       55
                       56
rows in set (0.00 sec)
ysql> select * from salesperson;
 id | name
                       spid
     NewAmmamdAslam
                       51
    Mary Fitzgerald
                       52
     Bill Flynn
                       53
     Alan Keenan
                       54
     Alice O'Rourke
                       55
                       56
  6 AA
 rows in set (0.00 sec)
```

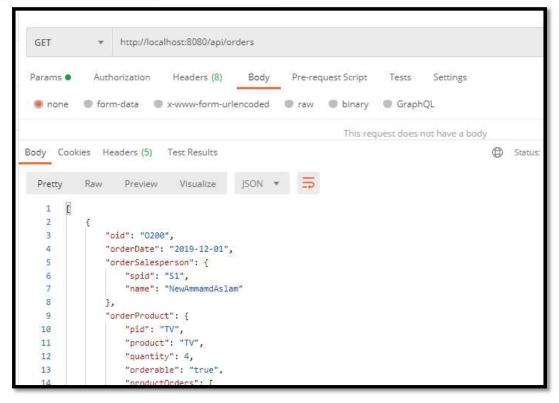


4.2 Order API endpoints

4.2.1 GET/api/orders

Returns an array of JSON objects containing the oid, orderDate, orderSalesperson.spid, orderSalesperson.name, orderProduct.pid, orderProduct.product, orderProduct.quantity, and orderProduct.orderable attributes of all orders.



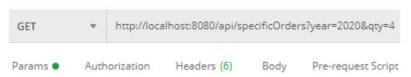


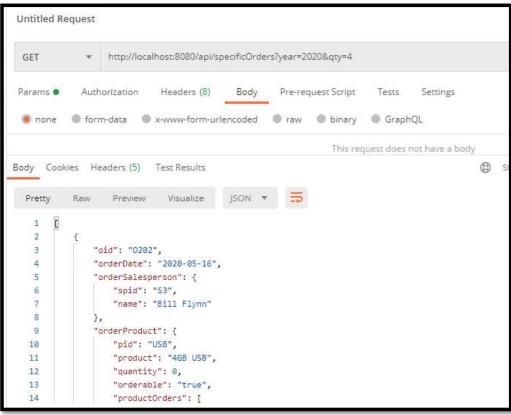
4.2.2 GET /api/specificOrders?year=<year>&qty=<quantity>

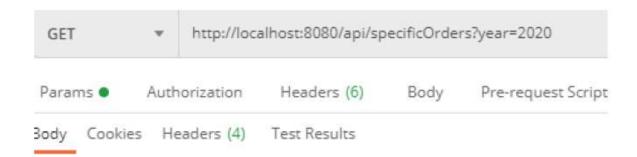
Return the oid, orderDate, orderSalesperson.spid, orderSalesperson.name, orderProduct.pid, orderProduct.product, orderProduct.quantity, and orderProduct.orderable attributes of all orders where the order year = year and order quantity > qty.

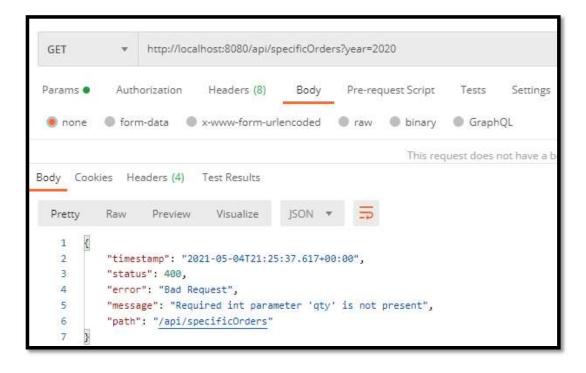
or example, /api/specificOrders?year=2020&qty=4 returns all details of orders in the year 2020 that had an order quantity of greater than 4.

Both *year* and *qty* parameters must supplied to this endpoint and their values must always be integers.







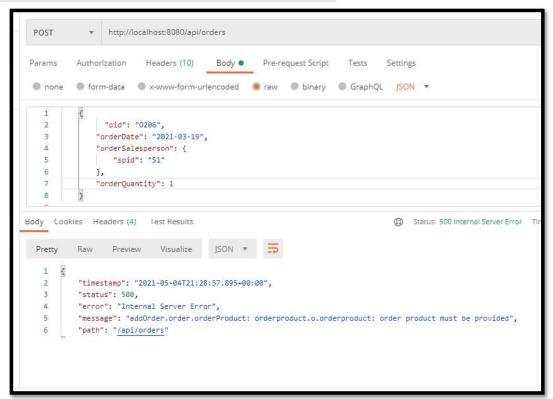


4.2.3 POST /api/orders

Persists the order object specified in the request body to the database. The order object must contain the oid, orderDate, orderQuantity, orderSalesperson.spid and orderProduct.pid attributes.

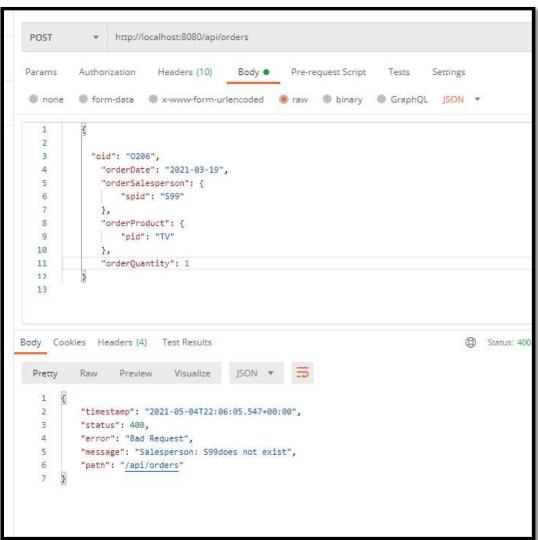
If any of these attributes is not present a HTTP 500 response should be returned with an appropriate error message. (NOTE: order *Quantity* should be > 0).





If orderSalesperson.spid is not a valid salesperson, a HTTP 422 response should be returned with the following error message: "Salesperson {orderSalesperson.spid} does not exist" where {orderSalesperson.spid} is the salesperson spid in request body.





```
POST
            ▼ http://localhost:8080/api/orders
                                                                    Settings
Params
         Authorization
                      Headers (10)
                                    Body •
                                             Pre-request Script Tests
 "oid": "0216",
             "orderDate": "2021-03-19",
             "orderSalesperson": {
               "spid": "S1"
             "orderProduct": {
                "pid": "ABC"
  10
  11
             "orderQuantity": 1
  12
  13
Body Cookies Headers (5) Test Results
                                                       Status: 422 Unprocessable Enti-
  Pretty
        Raw Preview Visualize
   1
   2
          "timestamp": "2021-05-04T22:07:43.509+00:00",
          "status": 422,
          "error": "Unprocessable Entity",
          "message": "Product: ABC does not exist",
          "path": "/api/orders"
```

```
2
                "oid": "0206",
                "orderDate": "2021-03-19",
    4
    5
                "orderSalesperson": {
    6
                    "spid": "51"
                },
    8
                "orderProduct": {
    9
                    "pid": "TV"
   10
   11
                "orderQuantity": 7
   12
   13
Body Cookies Headers (4) Test Results
                    Preview
                               Visualize
  Pretty
    1
            "timestamp": "2021-05-04T21:39:32.996+00:00",
            "status": 400,
            "error": "Bad Request",
            "message": "Stock on hand: 5 is less than order quantity: = 7",
            "path": "/api/orders"
```