1. Database Setup(MySql): Execute the following queries:

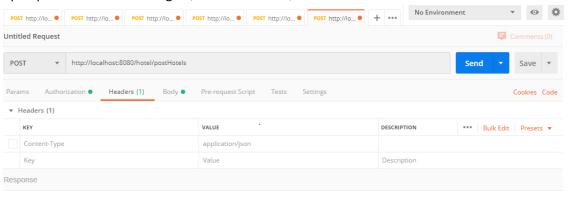
- create database test
- create table hotel (

```
HOTEL_ID int(11) NOT NULL PRIMARY KEY,
HOTEL_NAME varchar(100) NOT NULL,
LOCATION varchar(100) NOT NULL,
PRICE int(11) NULL,
SPECIALITIES varchar(10000) NULL
);
```

alter table hotel MODIFY HOTEL_ID int NOT null AUTO_INCREMENT

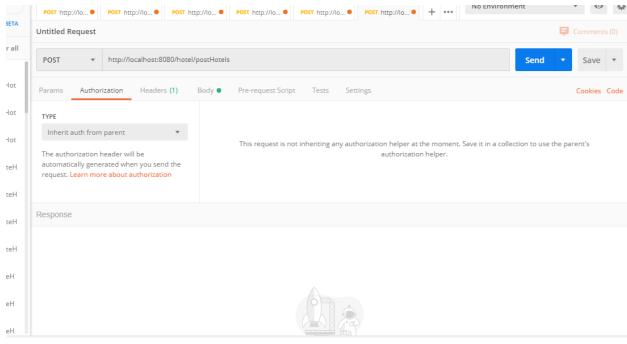
2. Postman Setup

- Install postman
- Body--> raw--> JSON
- Settings for Admin/User authentication: (will be used during insert, update and delete hotels)
 - a. Open postman: Enter URL eg: http://localhost:8080/hotel/postHotels

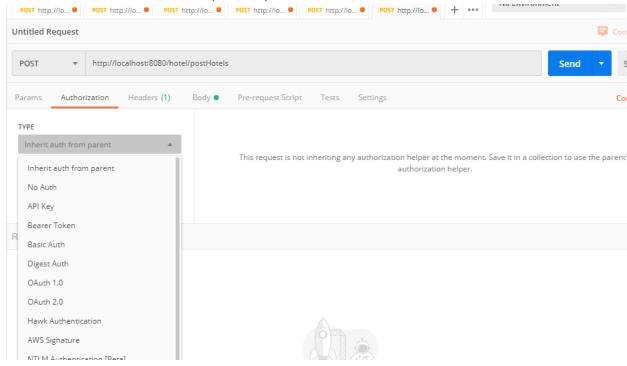




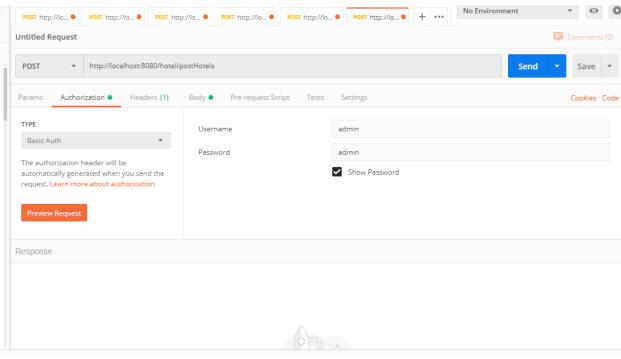
b. Click Authorization



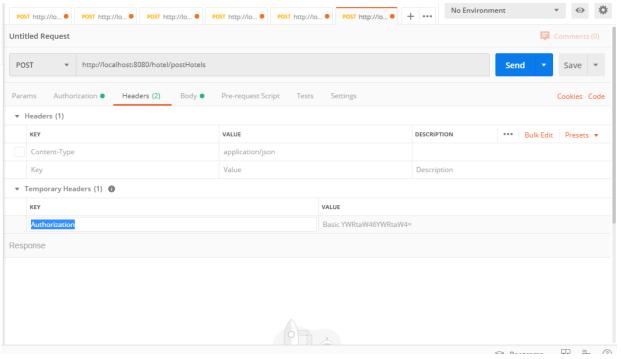
c. Select "Basic Auth" from TYPE dropdown option



d. Enter username and password as "admin"

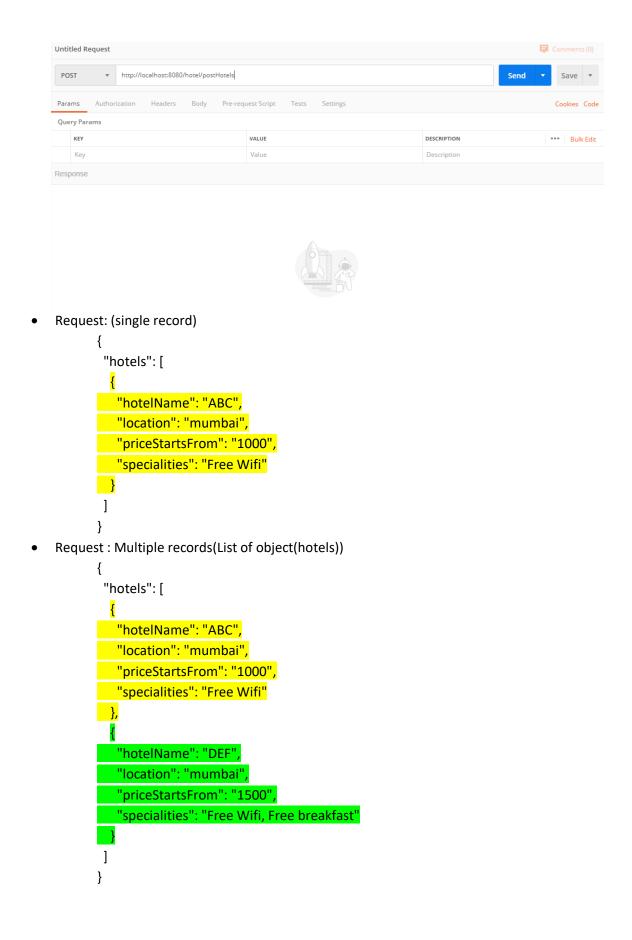


- e. Select Preview Request
- f. Click on Headers
- g. You will see Authorization key in Temporary Headers section

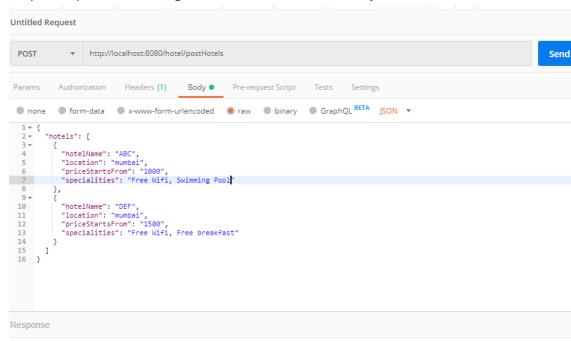


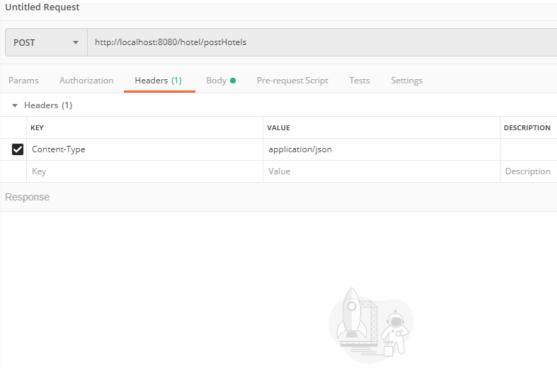
3. Insert Single/Multiple records in table:

- URL: http://localhost:8080/hotel/postHotels
- RequestMapping : POST



- Some basic validations to the field:
 - o hotel_name is mandatory field
 - location is mandatory field
 - o priceStartsFrom should be in numeric
- Throws error if validations fails, (in case of multiple records NO records will be inserted if validation fails for any 1 or more records)
- Error Scenarios:
 - a. If authorization of "admin" fails
 - Create a post request for inserting record in database without step2:

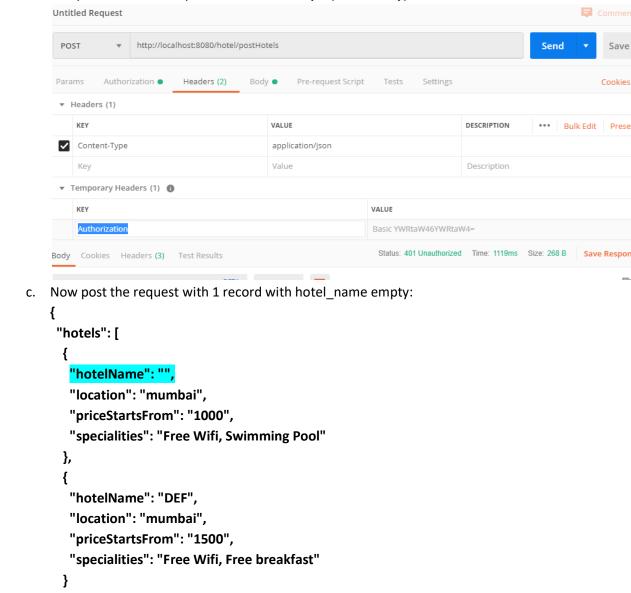




o You should get UNAUTHORIZED error response:

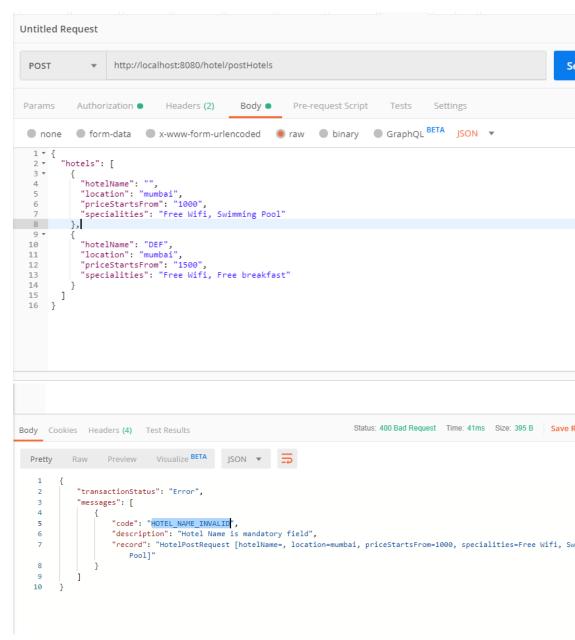
```
POST
              ▼ http://localhost:8080/hotel/postHotels
                                                                                                                     Send
 14
15 ]
16 }
                                                                              Status: 401 Unauthorized Time: 1119ms Size: 268 B
lody Cookies Headers (3) Test Results
           Raw Preview Visualize BETA
                                                JSON ▼
   1
             "transactionStatus": "Error",
   2
   3
             "messages": [
                     "code": "INVALID_LOGIN",
"description": "You are not authorized to insert",
   5
   6
                     "record": ""
   9
  10
```

b. Setup authorization in postman same as **step2:(Mandatory)**



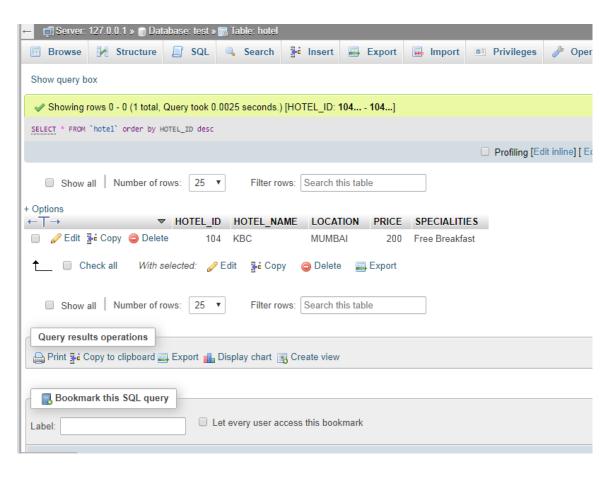
Validation should fail for when hotelName is empty. Error response :

] }

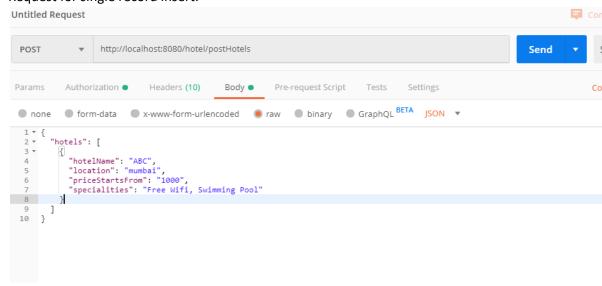


o Check in db:

select * from hotel order by hotel_id desc:



- Similarly try for validations of hotelName, location and price
- Happy Path Scenarios:
 - Setup authorization for admin using postman refer step2(Mandatory)
 - o Request for single record insert:



Success Response:

```
Status: 200 OK Time: 1500ms Size: 27
Body Cookies Headers (3) Test Results
                              Visualize BETA
                                            JSON ▼ 5
  Pretty
         Raw Preview
    1
            "transactionStatus": "Success",
    2
    3
             "messages": [
    4
                    "code": "RECORDS_INSERTED",
                    "description": "Records have been successfully inserted",
                    "record": "1"
    8
    9
   10
```

o Request for inserting multiple records at a time:

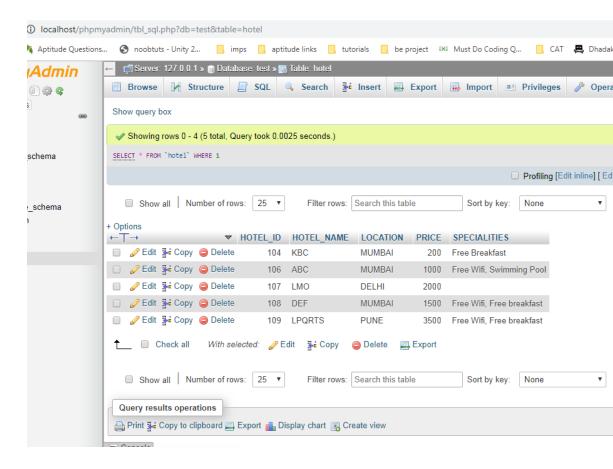
```
Send ▼
  POST
 Params Authorization • Headers (10) Body • Pre-request Script Tests Settings
                                                                                                        Cookie
  В
 1 * {|
2 * "hotels": [
3 * {
        "hotelName": "LMO",
"location": "delhi",
"priceStartsFrom": "2000",
"specialities": ""
  4
      10
  12
  14
15 •

},
{
  "hotelName": "LPQRTS",
  "location": "Pune",
  "priceStartsFrom": "3500",
  "specialities": "Free Wifi, Free breakfast"
}

  17
  20
21 ]
22 }
                                                                    Status: 200 OK Time: 1500ms Size: 271 B Save Response
Body Cookies Headers (3) Test Results
Success Response:
                                                                                                           S
 Body Cookies Headers (3) Test Results
                                        Visualize BETA
                                                             JSON ▼
    Pretty
                Raw
                          Preview
      1
                  "transactionStatus": "Success",
      2
      3
                  "messages": [
      4
                      {
                            "code": "RECORDS_INSERTED",
      5
                            "description": "Records have been successfully inserted",
      6
                            "record": "3"
      7
      8
      9
                  ]
     10
```

▼ http://localhost:8080/hotel/postHotels

o check in db



4. GetRecords by dynamically search criteria

a. URL: http://localhost:8080/hotel/getHotels

b. RequestMapping: POST

```
Request:

{
    "hotelId":"",
    "hotelName":"",
    "priceRangeFrom":"",
    "priceRangeTo":"",
    "location":"",
    "keyword":""
}
```

Description:

- o if hotelld is provided then, it fetches as per hotelld
- If hotelName is provided then it fetches records with hotelName which contains chars/strings provided as hotelName (for eg: "hotelName":"A", it searches for hotelName which contains "A" in it)

- If priceRangeFrom is provided then it fetches records of hotels having price greater than or equal to priceRangeFrom
- If priceRangeTo is provided then it fetches records of hotel having price less than or equal to priceRangeTo
- If location is provided then it fetches records of hotels whose locations contains chars/strings provided as location (for eg: "location ":"mum", it searches for location which contains "mum" in it)
- If keyword is provided then it fetches records of hotels whose specialities contains chars/strings provided as keyword (for eg: " keyword":"wifi", it searches for specialities which contains "wifi" in it)
- o If **none of the above fields** are provided then ,it fetches all the records
- d. Here, no admin authorization is required
- e. Validations:
- priceRangeFrom , priceRangeTo and hotelId should be numeric
- f. Error Scenario:

```
Request:
     {
              "hotelId":"",
              "hotelName":"".
              "priceRangeFrom":"abc",
               "priceRangeTo":"",
              "location":""
              "keyword":""
      Untitled Request
         POST
                          http://localhost:8080/hotel/getHotels
                                                                                                                       Send
                                                            Pre-request Script
       Params
                  Authorization
                                  Headers (9)
                                                 Body •
                                                                                Tests
                  ● form-data ● x-www-form-urlencoded ● raw ● binary ● GraphQL BETA JSON ▼
                "hotelId":"
                "priceRangeFrom": "abc",
                "priceRangeTo":"",
"location":"",
"keyword":""
```

• Resposne:

```
Body Cookies Headers (4) Test Results

Status: 400 Bad Request Time: 87ms Size: 405 B Save Respon

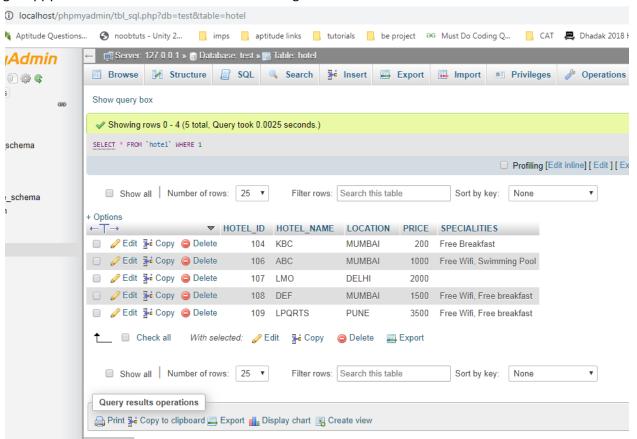
TransactionStatus": "Error",
"messages": [

"code": "PRICE_FROM_INVALID",
"description": "Price Range From should be in numeric",
"record": "HotelSearchRequest [hotelId=, hotelName=, priceRangeFrom=abc, priceRangeTo=, location=, keyword=]"

"hotels": []
```

Similarly try for princeRangeTo and hotelId

g. Happy Scenarios: table hotel contains following data:

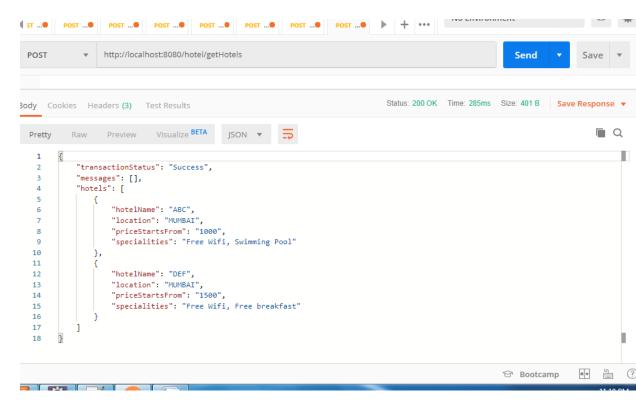


h. search hotels with location="Mumbai" and specialities="wifi", here we should retrive 2 records as per data in table

• Request:

```
{
       "hotelId":"",
       "hotelName":"",
       "priceRangeFrom":"",
       "priceRangeTo":"",
       "location":"Mumbai",
       "keyword":"wifi"
}
 Untitled Request
                   http://localhost:8080/hotel/getHotels
   POST
  Params
            Authorization
                            Headers (9)
                                          Body •
                                                    Pre-request Script
                                                                       Tests
                                                                                Settings
   1 * {
         "hotelId":"",
"hotelName":"",
"priceRangeFrom":"",
"priceRangeTo":"",
"location":"Mumbai",
"keyword":"wifi"
   3
  5
6
7
 8 }
```

Response:



i. example 2: search records for having price between 100 to 1200 and in mumbai; As per data in table 2 records will be fetched

```
Request:

{

"hotelId":"",

"hotelName":"",

"priceRangeFrom":"100",

"priceRangeTo":"1200",

"location":"mumbai",

"keyword":""

}
```

```
POST ... POS
```

• Response:

```
http://localhost:8080/hotel/getHotels
POST
                             Visualize BETA
                                             JSON ▼
Pretty
 1
           "transactionStatus": "Success",
 2
           "messages": [],
 4
           "hotels": [
                  "hotelName": "KBC",
 6
                  "location": "MUMBAI",
                  "priceStartsFrom": "200",
 8
                   "specialities": "Free Breakfast"
 9
 10
11
                  "hotelName": "ABC",
12
                  "location": "MUMBAI",
13
                  "priceStartsFrom": "1000",
                   "specialities": "Free Wifi, Swimming Pool"
15
16
17
      }
18
```

Similarly try for other scenarios:

5. Update records by single or in bulk:

- URL: http://localhost:8080/hotel/updateHotels
- RequestMapping: POST

```
Request:
{
    "updateValues": {
```

```
"hotelName": "",
    "priceToAddOrSub": "",
    "location": "",
    "addKeywords": ""
},

"whenCondition": {
    "hotelId": "",
    "hotelName": "",
    "priceGreaterThan": "",
    "priceLessThan": "",
    "location": "",
    "matchingKeywords": ""
}
```

Description:

- updateValues and whenCondition is mandatory
- In updateValues: any one of the field is mandatory
- In whenCondition : any one of the field is mandatory
- In updateValues:
 - a) if hotelName is provided then it will set hotelName against the records
 - b) if priceToAddOrSub is provided it will add or subtract with respect to price of records
 - c) if location is provided then it will set location against the records
 - d) if addKeywords is provided then it appends to specialities of records
- In whereCondition: (searches record dynamically)
 - a) if hotelld is provided then, it fetches records as per hotelld
 - b) If hotelName is provided then it fetches records with hotelName which contains chars/strings provided as hotelName (for eg: "hotelName":"A", it searches for hotelName which contains "A" in it)
 - c) If priceGreaterThan is provided then it fetches records of hotels having price greater than priceRangeFrom
 - d) If priceLessThan is provided then it fetches records of hotel having price less than priceRangeTo
 - e) If location is provided then it fetches records of hotels whose locations contains chars/strings provided as location (for eg: "location ":"mum", it searches for location which contains "mum" in it)
 - f) If matchingKeywords is provided then it fetches records of hotels whose specialities contains chars/strings provided as matchingKeywords (for eg: "

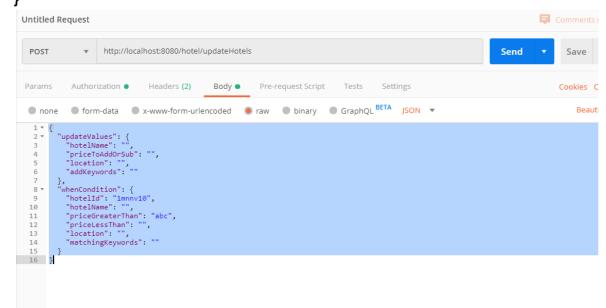
matchingKeywords ":"wifi", it searches for specialities which contains "wifi" in it)

- Validations:
 - In updateValues: priceToAddOrSub should be numeric
 - In whereCondition: hotelld, priceLessThan and priceGreaterThan should be numeric
 - updateValues and whenCondition is mandatory
 - o In updateValues : any one of the field is mandatory
 - In whenCondition : any one of the field is mandatory
- Admin authorization is required, refer step2 (Mandatory)
- Error Scenarios: validaton fails

```
Request:

{
    "updateValues": {
        "hotelName": "",
        "priceToAddOrSub": "",
        "location": "",
        "addKeywords": ""
},

"whenCondition": {
        "hotelId": "1mnnv10",
        "hotelName": "",
        "priceGreaterThan": "abc",
        "priceLessThan": "",
        "location": "",
        "matchingKeywords": ""
}
```

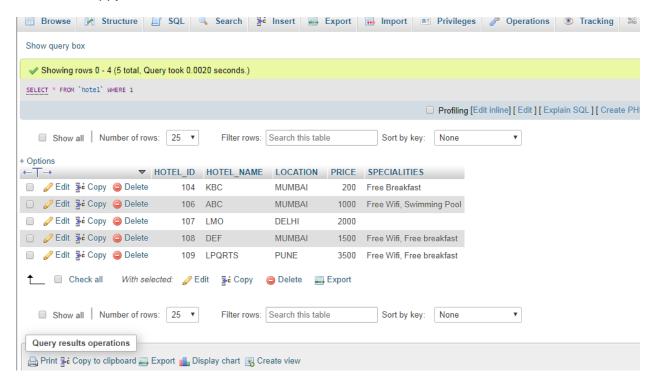


Response:

```
POST
                 http://localhost:8080/hotel/updateHotels
                                                                                                               Send
                             Visualize BETA
                                            JSON ▼
Pretty
           "transactionStatus": "Error",
           "messages": [
                   "code": "HOTEL_ID_INVALID",
                   "description": "Hotel Id should be in numeric",
                   "record": "HotelUpdateWhereParams [hotelId=1mnnv10, hotelName=, priceGreaterThan=abc, priceLessThan=, location=,
                      matchingKeywords=]"
                  "code": "PRICE_GREATER_THAN_INVALID",
10
                   "description": "Price Value From should be in numeric",
11
12
                   "record": "HotelUpdateWhereParams [hotelId=1mnnv10, hotelName=, priceGreaterThan=abc, priceLessThan=, location=,
                      matchingKeywords=]"
13
14
15
                   "code": "INVALID_UPDATE_VALUES_CONDITION",
                   "description": "Atleast one of the field is mandatory in updateValues",
17
                   "record": "HotelUpdateParams [hotelName=, priceToAddOrSub=, location=, addKeywords=]"
18
19
20
```

Similarly try for other validations

Happy Path Scenarios



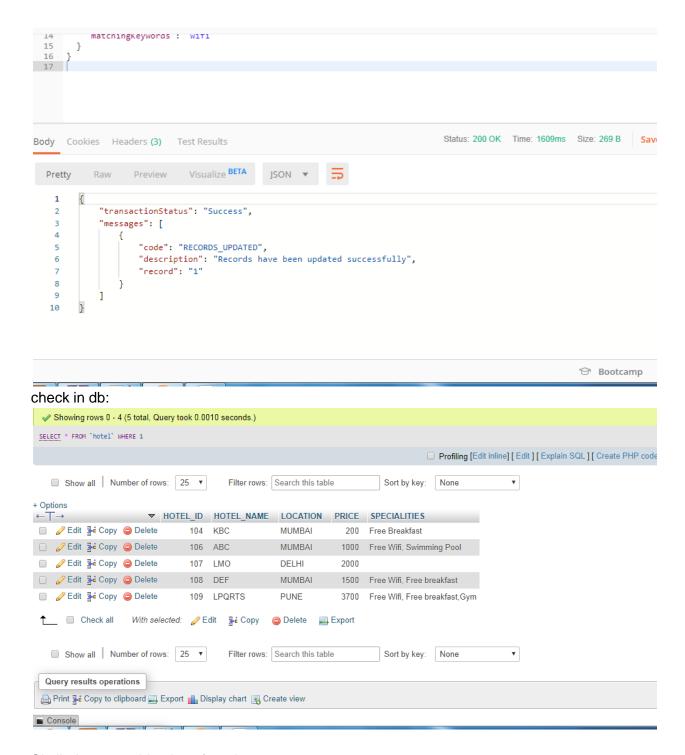
As per data in table:

example 1: increase the price of hotels by 200 and add extra specialities = "gym" where speciliaties contains "wifi" and price > 1800.

As per data in table only 1 record will be updates:

```
Request:
  "updateValues": {
   "hotelName": "",
   "priceToAddOrSub": "200",
   "location": "",
   "addKeywords": "Gym"
 },
  "whenCondition": {
   "hotelld": "",
   "hotelName": "",
   "priceGreaterThan": "1800",
   "priceLessThan": "",
   "location": "",
   "matchingKeywords": "wifi"
}
                 http://localhost:8080/hotel/updateHotels
   POST
                                                                                                  Send
                                                                                                               Save ▼
           Authorization •
                          Headers (10)
                                       Body • Pre-request Script
                                                                           Settings
                                                                                                              Cookies Code
  Beautify
        "updateValues": {
  "hotelName": "",
  "priceToAddOrSub": "200",
  "location": "",
          "addKeywords": "Gym"
       },
"whenCondition": {
         "hotelId": "",
"hotelName": ""
          "priceGreaterThan": "1800",
"priceLessThan": "",
"location": "",
  12
          "matchingKeywords": "wifi"
  15
17
```

Response:



Similarly try combinations for others:

6. Delete records by single or in bulk

- URL: http://localhost:8080/hotel/deleteHotels
- RequestMapping : POST
- Request:

```
{
    "hotelId":"",
    "hotelName":"",
    "priceGreaterThan":"",
    "priceLessThan":"",
    "location":"",
    "noMatchingKeywords":""
}
```

Description:

- a) if hotelld is provided then, it fetches records as per hotelld
- b) If hotelName is provided then it fetches records with hotelName which contains chars/strings provided as hotelName (for eg: "hotelName":"A", it searches for hotelName which contains "A" in it)
- c) If priceGreaterThan is provided then it fetches records of hotels having price greater than priceRangeFrom
- d) If priceLessThan is provided then it fetches records of hotel having price less than priceRangeTo
- e) If location is provided then it fetches records of hotels whose locations contains chars/strings provided as location (for eg: " location ":"mum", it searches for location which contains "mum" in it)
- f) If noMatchingKeywords is provided then it fetches records of hotels whose specialities doesnot contains chars/strings provided as matchingKeywords (for eg: "matchingKeywords ":"wifi", it searches for specialities which doesnot contains "wifi" in it)

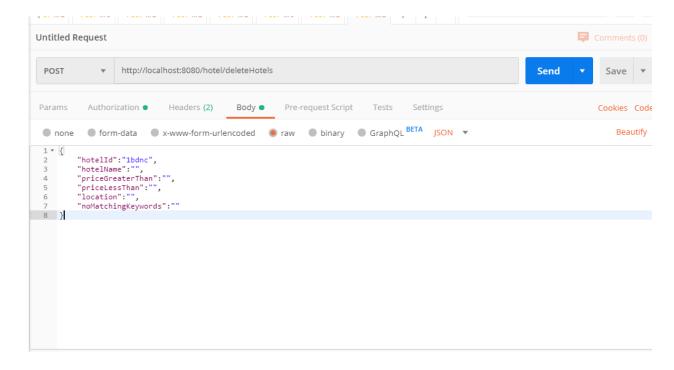
Validations:

- o hotelld, priceGreaterThan and priceLessThan should be numeric
- Any one of the request field is mandatory

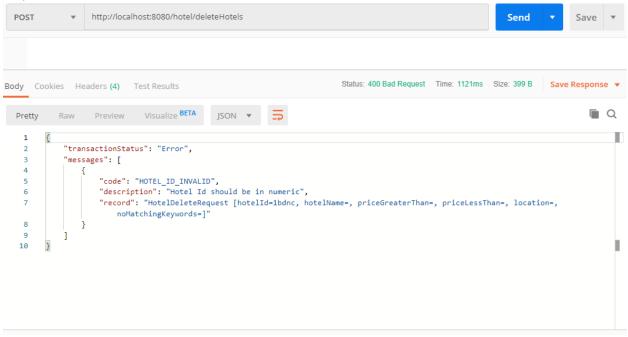
Admin authorization is required, refer step2 (Mandatory)

Error Scenarios: validaton fails

```
Request:
{
    "hotelId":"1bdnc",
    "hotelName":"",
    "priceGreaterThan":"",
    "priceLessThan":"",
    "location":"",
    "noMatchingKeywords":""
}
```



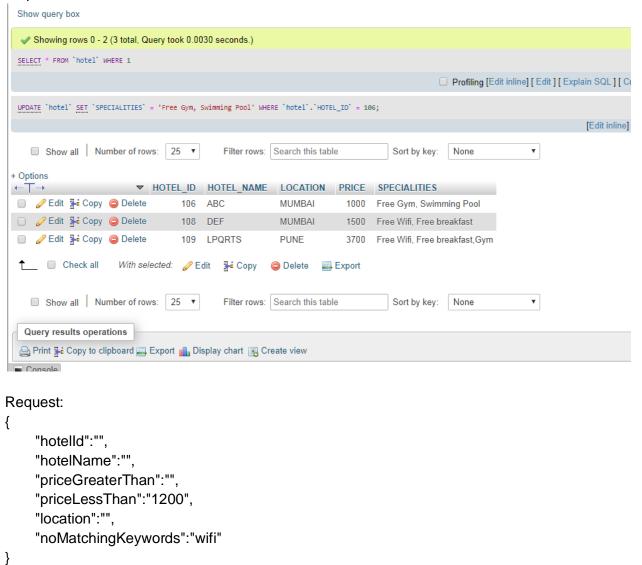
Response:

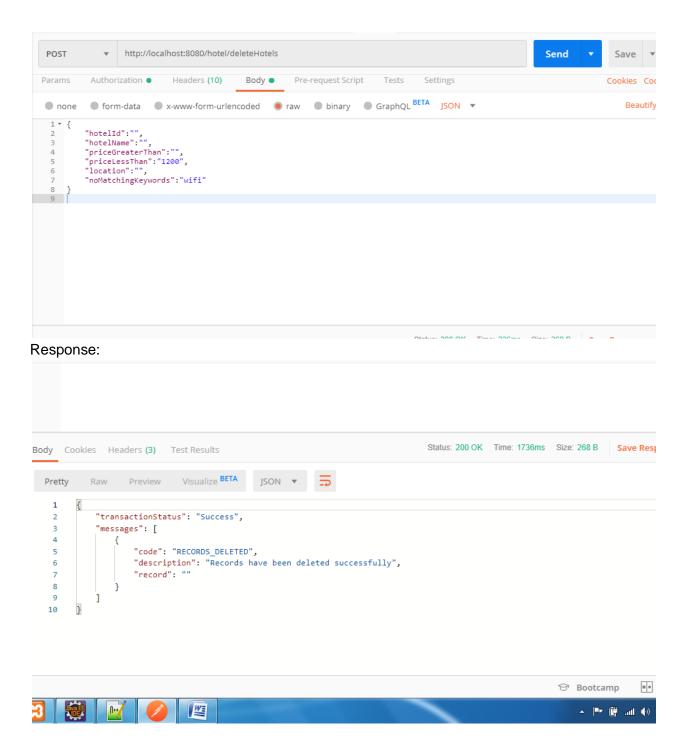


Similarly try for other validation sceanrios

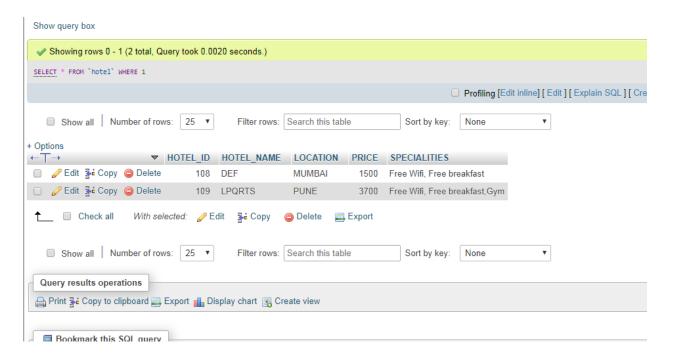
 delete records which have price less than 1200 and specialities does not contains "wifi"

As per table first record should be deleted





Check db



Similarly try for other combinations