## How to drive rest using Postman and phpMyAdmin

The rest module should download with the following "vendor" dependencies:

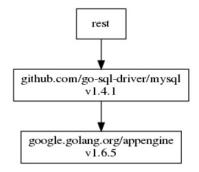
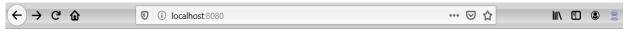


Figure 1 Dependency output from dep

After downloading rest from github:

- \$ cd rest
  \$ go build rest
  \$ rest
- You might have to give firewall permission in order to continue. Now, using a web browser, navigate to the home page at localhost: 8080 as follows:



Process SQL records with standard net/http services

This simple Golang program uses the following JSON records to feed the SQL database:

ID: string
Title: string
Desc: string

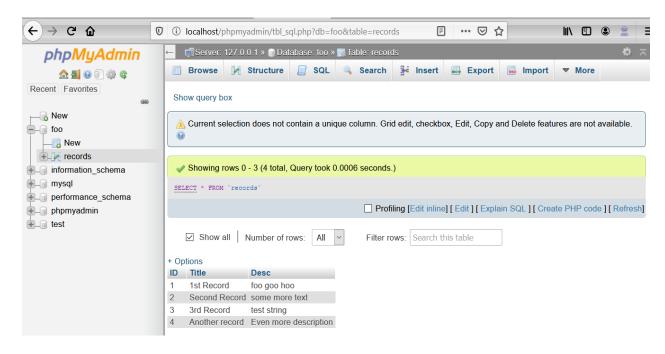
Navigate to <a href="mysql-records">mysql-records</a> and use the RESTful interface for building and modifying the SQL database. Postman and phpMyAdmin are recommended for driving the interface with POST, GET, PUT, PATCH, and DELETE. Experience with URL query strings is required with Postman. Refresh mysql-records after each Postman method finishs. Use the GET method with Postman, or send SQL commands from pdpMyAdmin to display the SQL database.

Before navigating to localhost: 8080/mysql-records, use phpMyAdmin to create a database named, foo with a table named records. You can optionally add a JSON record to the mysql database.

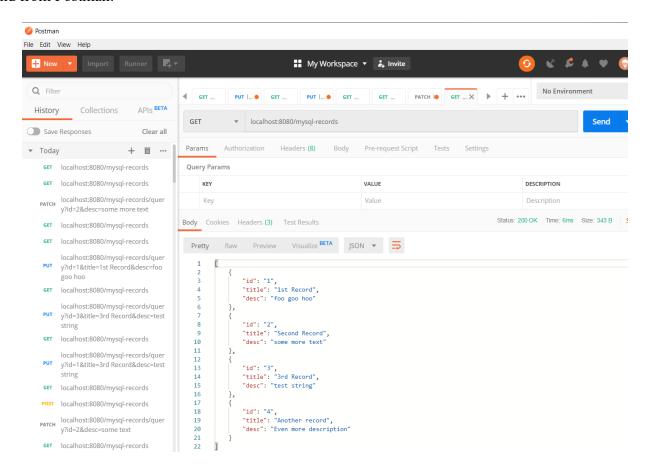
Please be aware that the standard net/http services do not handle URL variables like Gorilla MUX. Postman will need fields, or table columns, to be passed inside a query string instead. Please note the following:

POST (/mysql-records) requires the JSON fields only
GET (/mysql-records) only requires that the database was created
PUT (/mysql-records/query) requires both title and description in the query string
PATCH (/mysql-records/query) requires either title or description in the query string
DELETE (/mysql-records/query) requires the id in query string

Now, let's have a look at a sample MySQL database using phpMyAdmin:



## and from Postman:



Let's delete record(id=4) and modify record(id=2) using Postman:



Then, instead of Postman or phpMyAdmin, look at the JSON output in the browser:

```
← → C û
                              i localhost:8080/mysql-records
                                                                                                      ... ▽
JSON Raw Data Headers
Save Copy Collapse All Expand All 🗑 Filter JSON
▼ 0:
    id:
    title: "1st Record"
    desc: "foo goo hoo"
    id:
    title: "2nd Record"
    desc:
          "some more text"
    id:
    title: "3rd Record"
    desc:
           "test string"
```

in order to illustrate that all three options will display the MySQL database.

It's a trivial SQL database, but it illustrates the very basics of MySQL, JSON, Postman, phpMyAdmin, Apache, and Golang with net/http RESTful API.