

### App Fullstack Developer Program Integrate MySQL to an Express App

#### Instruction:

For submission,

- 1. Upload your source code in a zip file to Talentlabs Classroom. Please don't include the node modules folder.
- 2. Upload this document as a PDF file as well.

### Prepare: Setting up MySQL WorkBench

#### Instruction

- 1. Download from here <a href="https://www.mysql.com/products/workbench/">https://www.mysql.com/products/workbench/</a>
- 2. Install the application.
- 3. Create a new Database connection by clicking the "+" button:

### MySQL Connections ⊕ ⊗

4. Fill in the connection details:

Connection Name: Any name is ok here

Hostname: student-mysql.ccttwiegufhh.us-east-2.rds.amazonaws.com

Username: studentmysql Password: studentmysql

- 5. Click "Test connection" and it should work.
- 6. Click "OK" to store the connection.
- 7. Double click the connection to connect:



### Prepare: Express Application Generator

#### Steps:

- 1. Execute the command: npx express-generator --ejs express-lab-11
- 2. Change directory into that new folder: cd express-lab-11
- 3. Install all npm packages: npm install
- 4. Start the server
- Windows PowerShell:

\$env:DEBUG='express-lab-11:\*'; npm start

Windows Command Prompt:

set DEBUG=express-lab-11:\* & npm start

MacOs or Linus:

SET DEBUG=express-lab-11:\* & npm start

#### Task 1: Seed Data

Before working on this, please make sure you have created the tables via MySQL workbench in lab 10.

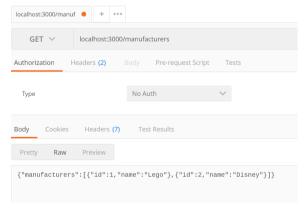
#### Steps:

- Follow slides 3~5 to set up the knex.js file.
- Follow slide 7 to create the default seed files.
  - o npx knex seed:make initial-manufacturer
  - o npx knex seed:make initial-product
- Follow slides 8~10 to update the seed files to use upsert.
- Follow slide 11 to execute the seed files.
- Use MySQL workbench to see if the seed data is created.

### Task 2: Get the data from Express

#### Steps:

- Follow slides 15 to set up the database.js file.
- Follow slide 16 ~ 18 to setup the ./routes/index.js file.
  - This should create the List manufacturers API
- Use Postman to test this API
  - GET localhost:3000/manufacturers



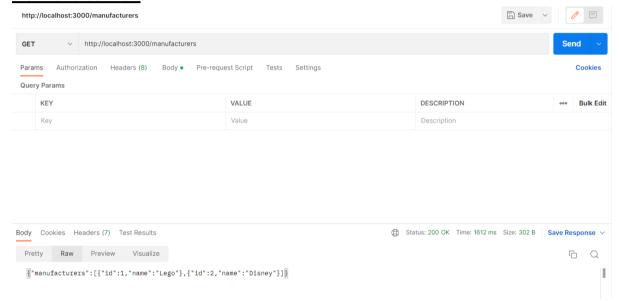
### Task 3: List, Retrieve, Create, Update, Delete

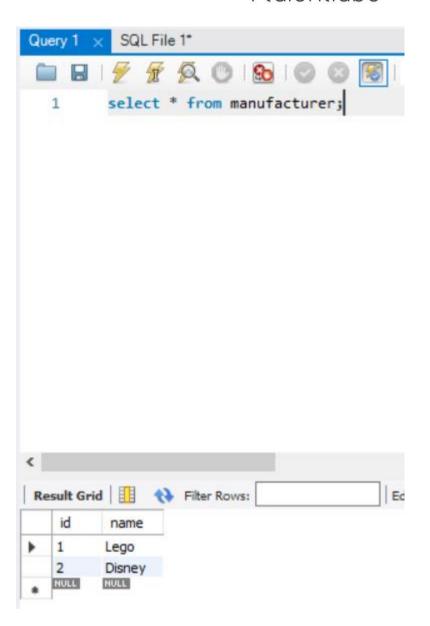
#### Steps:

- Follow slides 20 ~ 30 to set up the rest of the manufacturers APIs
- For each List, Retrieve, Create, Update, Delete API
  - o Take a screenshot of Postman to show how you test the API.
  - Take a screenshot of MySQL workbench to show the result Manufacturers table

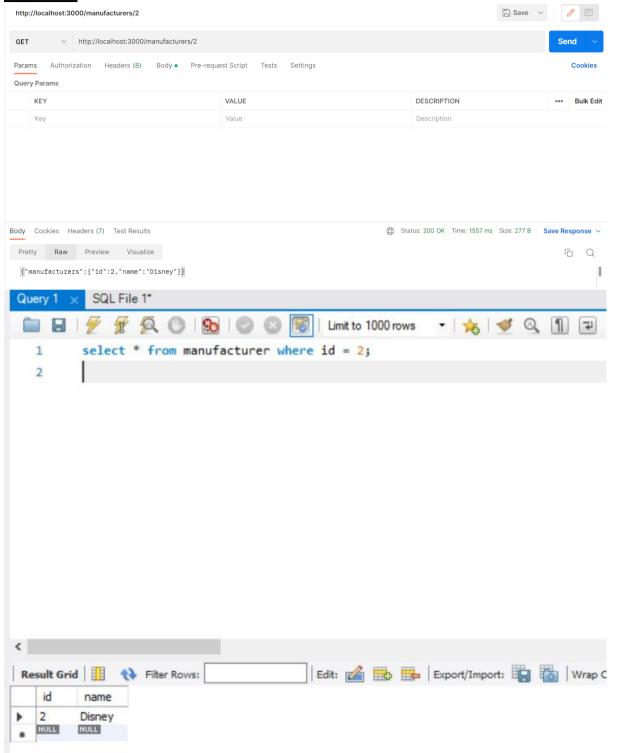
#### For example:

#### **List Manufacturer:**



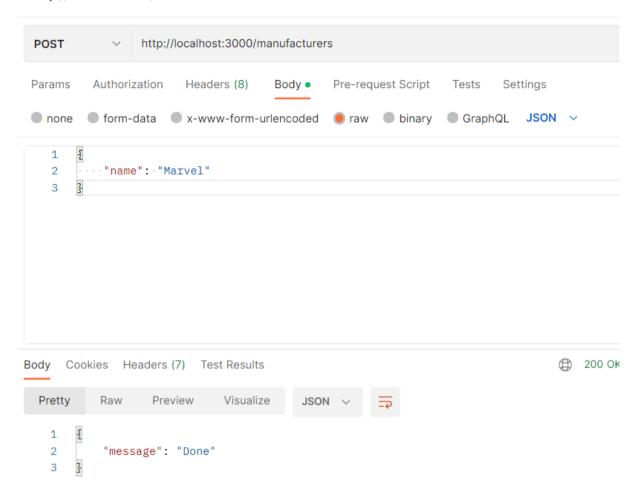


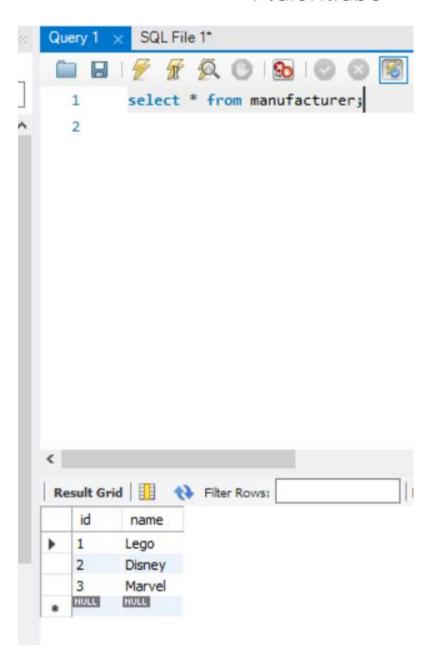
#### **RETRIEVE**



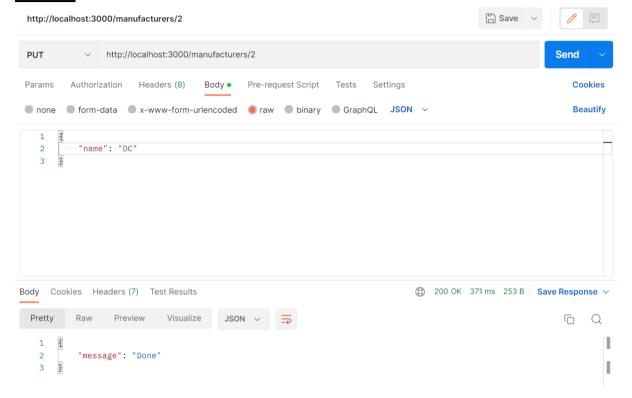
#### **CREATE**

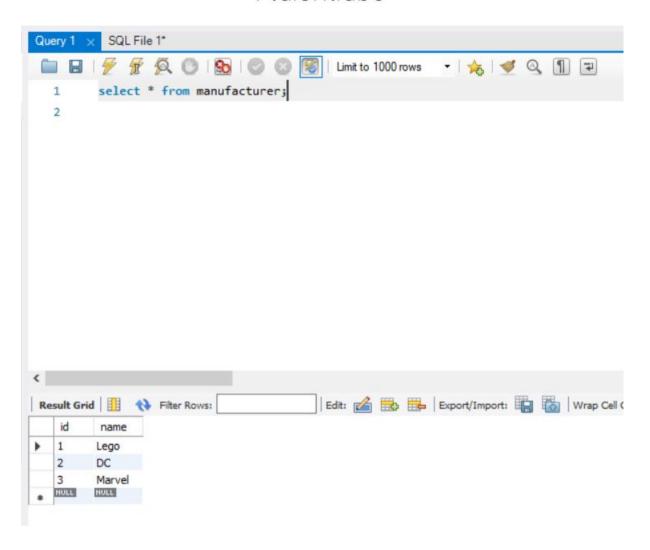
http://localhost:3000/manufacturers





#### **UPDATE**





#### **DELETE**

