

Hints for Integration

Summary:

The basic thing found in all research is that for any connection you need a working SQL database along with the driver module for it to be able, to be accessed by Node JS. After completing these initial requirements Node can be used to modify it accordingly.

Module Setup:

To access a MySQL database with Node.js, you need a MySQL driver. This tutorial will use the "mysql" module, downloaded from NPM.

To download and install the "mysql" module, open the Command Terminal and execute the following:

```
C:\Users\Your Name>npm install mysql
```

Now you have downloaded and installed a mysql database driver.

Node.js can use this module to manipulate the MySQL database:

```
var mysql = require('mysql');
```

Creation of connection

Start by creating a connection to the database.

Use the username and password from your MySQL database.

```
demo_db_connection.js
```

```
var mysql = require('mysql');

var con = mysql.createConnection({
  host: "localhost",
  user: "yourusername",
  password: "yourpassword"
});

con.connect(function(err) {
  if (err) throw err;
  console.log("Connected!");
});
```

Use SQL statements to read from (or write to) a MySQL database. This is also called "to query" the database.

Other ways

MySQL

Module: `mysql`

Installation

```
$ npm install mysql
```

Example

```
var mysql = require('mysql')
var connection = mysql.createConnection({
  host: 'localhost',
  user: 'dbuser',
  password: 's3kre337',
  database: 'my_db'
})

connection.connect()

connection.query('SELECT 1 + 1 AS solution', function (err, rows, fields) {
  if (err) throw err

  console.log('The solution is: ', rows[0].solution)
})

connection.end()
```

References (for full details):

<https://www.sitepoint.com/using-node-mysql-javascript-client/>

<https://expressjs.com/en/guide/database-integration.html>

<https://hackernoon.com/setting-up-node-js-with-a-database-part-1-3f2461bdd77f>

https://www.youtube.com/watch?v=hGZX_SA7IYg

https://www.w3schools.com/nodejs/nodejs_mysql.asp

<http://www.mysqltutorial.org/mysql-nodejs/connect/>

<https://codeforgeek.com/2019/04/nodejs-mysql-tutorial/>