

Unit 12.2 Highlights

SELECT - Used to select data from a database

Ex. 1

```
/* basic SELECT format */
SELECT column1, column2, ...
FROM table_name;

SELECT make, model FROM cars; /* selects make and model column from cars table*/
SELECT * FROM Customers; /* * returns all columns */

SELECT make, model FROM cars WHERE id = 2; /* selects make and model column from cars table where id = 2*/
```

(Source: <https://www.npmjs.com/package/mysql>)

mysql (node package) - node.js driver for mysql

Ex. 2

```
var mysql = require("mysql"); //import the mysql node package

//create an instance of a connection to your database & store as a variable
var connection = mysql.createConnection({

  host: "localhost",

  // Your port; if not 3306
  port: 3306,

  // Your username
  user: "root",

  // Your password
  password: "",

  database: "your_database"

});

//connect to the database, with a callback firing when has completed/failed
connection.connect(function(err){
  console.log("connected!");

  //runs a query, with a callback firing when has completed/failed
  connection.query("SELECT * from cars",function(err,result){

    console.log(results);

  });

  //ends database connection
  connection.end();

});
```

(Source: <https://github.com/mysqljs/mysql#performing-queries>)

Performing Queries

There are multiple ways to run dynamic queries:

Ex. 3 (literal strings)

```
connection.query('SELECT * FROM `books` WHERE `author` = "David"', function (error, results, fields) {
  // error will be an Error if one occurred during the query
  // results will contain the results of the query
  // fields will contain information about the returned results fields (if any)
});
```

Ex. 4 (using placeholder values)

```
connection.query('SELECT * FROM `books` WHERE `author` = ?', ['David'], function (error, results, fields)
{
  // error will be an Error if one occurred during the query
  // results will contain the results of the query
  // fields will contain information about the returned results fields (if any)
});
```

Ex. 5 (using object literals)

```
var query = connection.query(
  "INSERT INTO products SET ?",
  {
    flavor: "Rocky Road",
    price: 3.0,
    quantity: 50
  },
  function(err, res) {
    console.log("mission accomplished")
  }
);

var query = connection.query(
  "UPDATE products SET ? WHERE ?",
  [
    {
      quantity: 100
    },
    {
      flavor: "Rocky Road"
    }
  ]
);
```