

## Data Layer Documentation – companydata Module

1. Make a directory for your node project: **YourLastNameYourFirstInitialP4**
2. Copy the companydata module (folder) into your node project folder
3. Change directory to your node project and install the **companydata** module:  

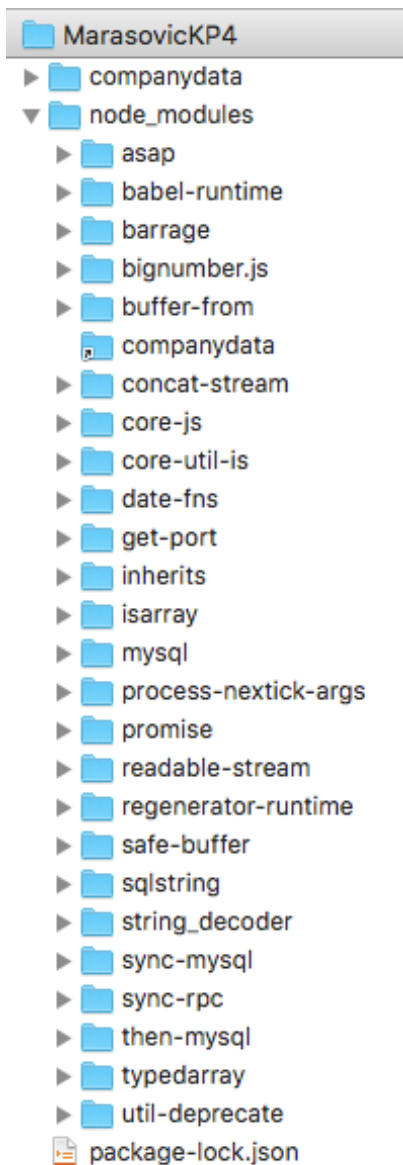
```
$npm install companydata/
```

```
...
```

```
+ companydata@1.0.0
```

```
added 28 packages from 23 contributors and audited 40 packages in 6.303s
```

```
found 0 vulnerabilities
```
4. When the module is installed, you should have the following directory structure:



5. You will need to add: `require("companydata");` to the top of your script that wants to access the Data Layer.

```
const dataLayer = require("companydata");
const Department = dataLayer.Department;
const Employee = dataLayer.Employee;
const Timecard = dataLayer.Timecard;
```

6. To use it (see included `testDataLayer.js` example):

```
var currentDept = new Department("bdfvks", "IT", "d50", "rochester");
currentDept = dataLayer.insertDepartment(currentDept);
if (currentDept.getId() > 0) {
    console.log("inserted Department id: " + currentDept.getId());
} else {
    console.log("Not inserted");
}
```

**Methods** (all return null on exception, if there is an error, such as the requested object doesn't exist):

```
//Delete all Departments, Employees and Timecards for a company
//Returns the number of rows deleted
```

**function deleteCompany(companyName)**

```
//Insert a department
```

```
//Returns the inserted Department
```

**function insertDepartment(department)**

```
//Get all Departments for a given company
```

```
//Returns a map of Department objects
```

**function getAllDepartment(companyName)**

```
//Get a given Department for a given company
```

```
//Returns the requested Department
```

**function getDepartment(companyName, dept\_id)**

```
//Update a Department
```

```
//Returns the updated Department
```

**function updateDepartment(department)**

```
//Delete a given Department for a given company
```

```
//Returns the number of rows deleted
```

**function deleteDepartment(companyName, dept\_id)**

```
//Insert an Employee
//Returns the inserted Employee
function insertEmployee(employee)

//Get a list of Employees for a given company
//Returns the map of Employee objects
function getAllEmployee(companyName)

//Get the requested Employee
//Returns the requested Employee
function getEmployee(emp_id)

//Update an Employee
//Returns the updated Employee object
function updateEmployee(employee)

//Delete the given Employee
//Returns the number of rows deleted
function deleteEmployee(emp_id)

//Insert a Timecard
//Returns the inserted Timecard
function insertTimecard(timecard)

//Get all Timecards for a given Employee
//Returns the map of Timecard objects
function getAllTimecard(emp_id)

//Get the requested Timecard
//Returns the requested Timecard
function getTimecard(timecard_id)

//Update a given Timecard
//Returns the updated Timecard
function updateTimecard(timecard)

//Delete the given Timecard
//Returns the number of rows deleted
function deleteTimecard(timecard_id)
```

