

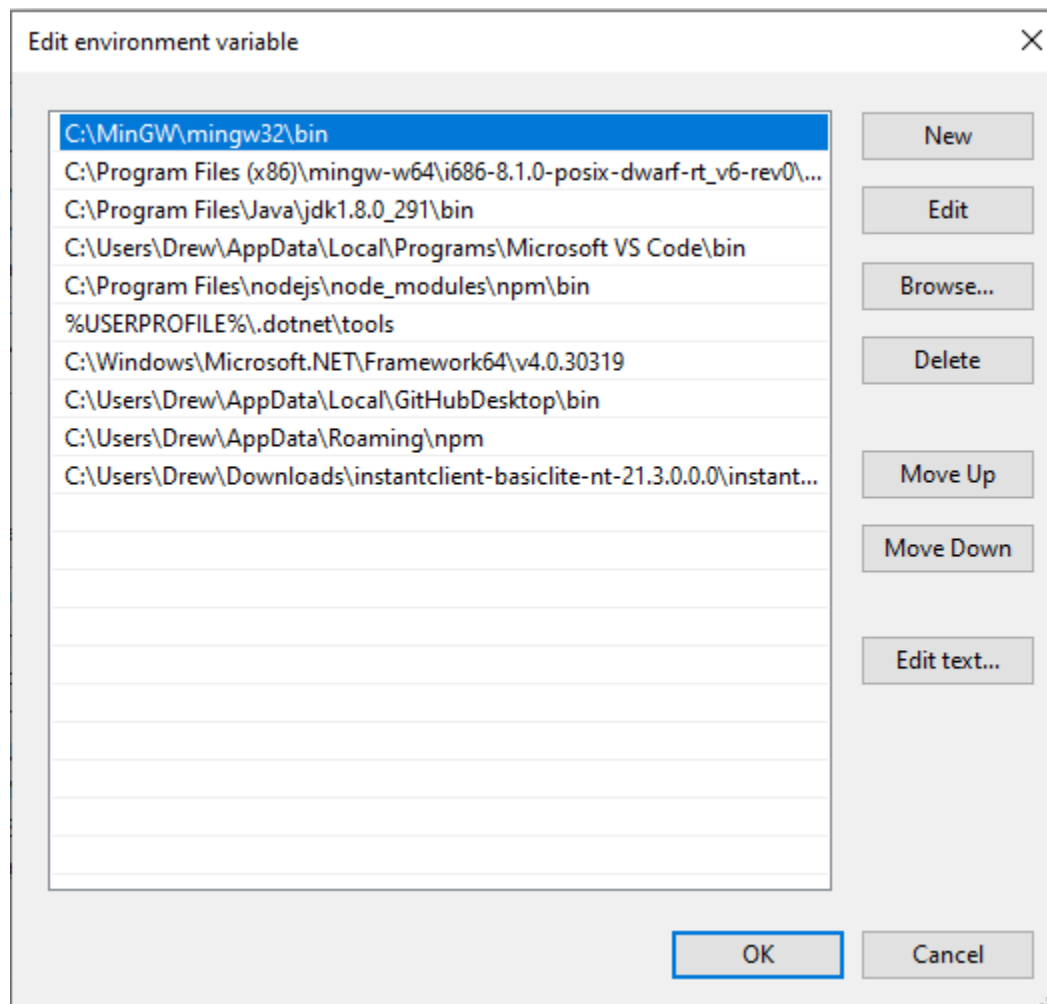
## How to use Oracle in our project

### Oracle client

To use an Oracle database locally, I think the easiest way is to just download a client. It should be noted that having Oracle SQL developer on your computer isn't the same as having the client on your computer. I would recommend the basic light package for whatever OS you're using. Side note: I use Windows so most of these instructions are for using Oracle with Node on Windows. If you use a Linux PC or a Chromebook then you might have to do some things differently. Anyways, here is the link to download a basic Oracle client.

[Oracle Instant Client Downloads](#)

Next, you'd want to add the client to your path variable as shown here:



This is the specific directory you're supposed to use in your path variable:

`ds\instantclient-basiclite-nt-21.3.0.0.0\instantclient_21_3\network\admin`

### *Redistributable*

The next step is to download Microsoft's C++ redistributable. If you already have it then go ahead & skip to the next part. If you don't, you can get it here:

[Latest supported Visual C++ Redistributable downloads | Microsoft Docs](#)

### *Package*

The last (I think) step is to install the oracle package. If you have Node on your computer already then you can just download it like you would any other package. The name is "oracledb", so you'd use this:

```
Documents>npm install oracledb_
```

You could put it in whatever directory you want it to be installed in instead of documents, just like any other node package. Depending on which computer architecture you have, it might not work due to a lack of a preinstalled binary. If this happens, try the next step; if not then you're done. Either way, it should be noted that unless one of you is paying for Oracle services (which is probably not the case), the database will be hosted on UF CISE Oracle. The only effect of this for those who are working on the front end is that you must be connected to UF's VPN for the connection to work, just like in our previous database adventures. If you have any questions or get confused, it's probably because I messed up this explanation. So if you want to ask me about it, then I'll do my best to help.

### *Compiling a binary*

If you need this part of the process, then you just have to create the binary from source code. So first, get code from this git repository:

[oracle/node-oracledb: Oracle Database driver for Node.js maintained by Oracle Corp.](#)

Then, in the directory in which you want to use the package, install the code as a package, like so:

```
npm install your_dir_path/node-oracledb
```

In this case, your\_dir\_path is the path to wherever you put the code from the previous link. I'm pretty sure that's it, but I could be wrong. So running the backend should probably work now.