**2024-05-01**

Did some initial onboarding, mainly signing standard tax documents, company agreements and policy reviews. The secretary also gave me a tour of the office, introduced me to all the employees currently in the office and showed me where I would be working. I worked with Kieran a little bit observing some database work, tracking functionalities. Then my supervisor who was not in the office invited me to a meeting to expose me to the data historian software that tracks data trends and allows users to make custom dashboards for tracking specific data sets. Although I do not completely understand what is happening regarding the software it was cool to see how the software makes data easier to read and track.

**2024-05-02**

Today, Sean was in the office, but he was on a call with a site that had a server failure, so he spent a lot of time working with them to get their server back in working order. He had me read some material about the historian software I'd be using to add reports from a different software so that the company that employed us could stop using it. In a nutshell the software is just making SQL queries from a database and displaying them nicely in a similar way to Excel. Afterwards we figured out how much access I had on the remote server housing the data I would need to access. Once we got access, Sean had me compile a list of all the important reports from the old software into an Excel spreadsheet so that they could be cross referenced once I started generating the new ones for the new software. Tomorrow, I'll be tuning in to the training session Sean is hosting for the employees that will be using the software so I can get some. experience using the software myself.

**2024-05-03**

Today opened by entering a training meeting like the one on my first day. This one was a bit lengthier and ran for about four hours. The difference this time around was that I got to follow Sean along and interact with the software. The software as mentioned before is a glorified visualizer of SQL queries made on a database. It also allows for reports generation and manual data entry from users. Overall, it is a comprehensive piece of software that seems to do its job well. After the meeting we had a short meeting with a couple of others from the company employing us, discussing how the training session went overall and some things they could improve the software later down the line. I spent the rest of the day starting on a report transfer to the new system for the company. I chose to start with a big report so that I could get a lot of practice while still only focusing on one report. Didn't get a chance to test whether I built the report correctly or not, so I'll have to take it up again on Monday.

**2024-05-06**

Once again, I am chugging through reports. I made it through a couple larger ones today. Although I initially spent the morning trouble shooting three, I chose to work on since they weren't displaying values. After discussing with Sean, we decided I should just move on and keep going through the reports and anything that isn't working we can fix later. Eventually some of the reports I continued to make did work without me changing anything in my process, which leads me to believe that it is an issue with the data and not with how I'm compiling the report. The old reports which use a less efficient table for data retrieval allows for a footer where the previous report makers have been adding averages for values displayed in the table currently instead of just making a new section of the table. I don't / haven't figured out if there is a way to do this with the table from the template, I am using but I figured I would ask Sean next time I get the chance. There's still a lot to go through so it will likely be a couple more weeks before all the report transferring gets completed.

**2024-05-07**

Back to the report grind, it seems a lot of the employer’s previous reports were broken due to a variety of reasons like weird data entry. All in all, still chugging through. This afternoon I mostly worked on an excel sheet that Sean had made up as a template for quick data retrieval from the database. Basically, they just want a quick reference. It works almost identically to the reports I’ve been making just in excel instead. This took up pretty much my whole day. Sean is going to use the excel sheet I compiled in his training sessions tomorrow.

**2024-05-08**

Tuned in to another one of Sean's training sessions. This one was a bit of a slog, 4 hours long total. However, this session was with a new group of people and this group is much more engaged than the previous. They were asking questions following along well which made the 4 hours pass a bit quicker. I mostly continued with reports during this time, so the meeting served as background noise. Initially the company who employed us wanted this new data system to go live from the end of May to the beginning of June. However, the lead on this project at our employer said that the yearly shutdown they do in September may be moved to June instead. This would give us a little more time to flesh out the system and polish some aspects. We are still operating as if the timeline is the same but will take advantage of the extra time if the decision to change the shutdown ends up being made. Afterwards, I was also in another of Sean's training sessions, but this one was only an hour. It was mostly showing off the trend viewer client app, query tool and excel template that I made yesterday. This session went well too, and Sean got a lot of positive feedback which he appreciated.

**2024-05-09**

Came into the office earlier today. It was quiet today; it seems that not a lot of people were here at the office. Maybe they were working online at home? Anyway, my boss Sean was on site today doing a training session instead of the usual online teaching sessions. Either way I was still chewing through reports, and I got a good chunk done today. Towards the latter end of the day, Sean had me start fixing the engineering units used by the system. For some reason, there is a bunch of the same units just capitalized differently but meaning the same thing. So, I'm currently going through and adjusting all of those to reach an agreement on a standard with the operations team. I also learned that a ton and a tonne are not the same thing. One of them is technically a metric unit but not recognized by SI. Also, there is a short and a long ton which have about 100 kg difference in measurement for some reason. All in all, a success full day.

**2024-05-09**

This morning leads off with an advanced report training. This initial group was less interesting than yesterday’s. They did not interact as much as the last group. This session basically just covered charts in the report studio. The charts are like Excel charts but with a little more convoluted feature. This training went smoothly for the most part, sometimes the report studio has errors when you try and make object near the edge of the report page causes you to use some less than convenient work arounds. New to this training session, Sean let me teach the report template section. I was nervous at first but eventually just focused on doing a good job and forgot about being nervous. Post training meeting both the lead at the company employing us and Sean complimented how clearly and thorough I was explaining the report template features, which made me feel a lot more confident in my ability. Then for the rest of the day I worked on fleshing out the engineering unit standardization I was working on yesterday and finished up the document and gave it to Sean. Researching symbols and standards for units made me realize how inconsistent they can be sometimes despite having a standard. Regardless I finish out the last hour of the day by doing some more reports and heading home for the weekend.

**2024-05-13**

Today I did some more reports for half the day, a good old 4 hours. We were focusing on manual entry boxes which allow the user to update data via the web interface itself. This has a little more complexity than the simple objects we were working with before, they also have some styling issues when placed on tables. Most of the 4 hours were spent dealing with the styling issues, which aren't fully resolved yet. Progress is steady. Next, I tuned into Sean's OMI training session, which basically has a visual of the systems being used on site. The system used to make them is extremely like object-oriented programming. You start with a base object that has a very general outline of how you want all the objects to be, then the specific objects inherit the outline of the base object, which is effectively a polymorphism. Also, like objects, they have functions which are akin to methods and properties which give them unique attributes. Then Sean tasked me with going through all the float tags and setting the min and max to be shown in trends which I am using python to complete since the data set is quite large. I will carry on tomorrow.

**2024-05-14**

Today flew by, despite not working on much of a variety of things. I got to use some more python today to filter values in a spreadsheet. I'm liking using python for these large data sets (number of rows > 1000) because it allows me to abstract and containerize functions rather than having a huge formula bar in excel. It also allows us to fine tune the functionality of the filtering and manipulation as precisely as needed. It has also taught me how to do some spreadsheet manipulation using the openpyxl module. I also learned a bit more regular expression pattern matching with Excel does not natively support. I was mostly independent today since Sean was on site doing in person training sessions. Overall, a productively feeling day that just flew by.

**2024-05-15**

Today we took another big step forward to the go live for the new system for our employer. Since most of the reports are finished and compiled, we now must vet their functionality. This morning Sean asked me to make a sheet to track and test all the reports document individual issues with each of their tables or views. This is pretty much going through all the reports again, like I have been since starting. I'm quite proud of the sheet I made. It works decently well and modular which will allow for updates. It seems like a lot of the tags have broken values or the way they are being queried is incorrect. I say this because a lot of the tables have values displaying "N/A" or "Err" meaning no data or there are null values respectively. This is a problem likely with the tag itself, somewhere along the retrieval line, there could be a typo with the tag or something along those lines. For now, we're just taking note of them and then going to return and amend them later. Hopefully, when we go back to fix them, the fixes will be as simple as fixing a type (although it's \*\*never\*\* usually that easy). So, another long but relatively simple task that will likely close out the week for me.

**2024-05-16**

Mostly report verification today, going through the standard tests and verifying everything is in working order. Made it through a good junk report today. However, it is a little annoying because Sean is doing training sessions at the same time I'm using the web view for the reports. Since he is doing training, every so often he must reload the whole project containing all the reports to update changes he makes to his examples. This inadvertently caused me to be logged out of the online portal due to the web view being updated. This causes small interruptions when I'm trying to be efficient, having to log back in causing some productivity halting. But today, a bigger interruption was experienced. Towards the afternoon, the whole project housing the reports crashed and I was no longer able to get onto the report studio software. I got in contact with the IT department for our employer and he basically said he had to go physically to find out what was going on. Later, Sean messaged me saying that the whole server needed to be restarted before I could continue. So pretty much no work got done for the last two hours of today.