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**Course:** IT\_Fnd\_130\_A\_Wi\_23\_Foundations\_of\_Databases\_and\_SQL\_Programming

**GitHub Link**: [https://github.com/uw204773/](https://github.com/uw204773/A06_MMiller)

**Assignment: Final - Course Lessons Learned**

# Introduction

In the final assignment document you asked us to:

Post in the ‘Lessons Learned’ discussion, and copy and paste that message to a Word document and ensure that it is included in our Final submission.

# Lessons Learned

The lessons I’ve learned this quarter have been how to:

* Create and use a database,
* Use database options,
* Select data,
* Process data,
* Join tables and use sub-queries,
* Create and use functions, and
* Create and use procedures.

Neat tricks I’ve also learned were:

* How to import records from an external source,
* How to use the ‘coalesce’ function to rid NULLs in results, and
* Sites to create ERDs and GitHub sites on which to share them.

# Syntax and Format

I’ve learned that syntax is very important to, and that knowing the commands is second to that. You can look up commands, but knowing how to properly document them, and in what order, is most important.

# Tables and Views

I learned that creating views for each table, and securing your tables is essential to creating a safe working database environment. I also learned the limitations of views, and how to best deal with those limitations.

# Joins and Subqueries

To be frank, I needed more focus on this aspect of working in databases. Though, I did learn the 4 types of joins, and how to use each of them. I’ve witnessed the use of subqueries, and I plan to revisit those course materials in order to better adapt to using them in my real world experiences.

# Temp Tables and Functions

I learned how to use temporary tables (#...) and global temporary tables (##...). Additionally, I better understand how to create a function, and that their use is limited to the session in which I create them.

# Stored Procedures

We didn’t get a lot of time on this topic. While we did get a chance to review it for 20 minutes in our final recorded class, I don’t feel as confident in my ability to use this feature as thoroughly well as other features I’ve learned about in this class. Though, I have learned to use the Try/Catch blocks, and fortunately, learning this will at least keep me from making too many errors while I’m learning to create and use stored procedures.