Please provide your thoughts related to advanced SQL:

* Experience in SQL and the RDBMS that you have used and/or you plan to use for your homework #4.  If you have used more RDBMSs in the past; please share your experience, explain your reasons (e.g., free, easy to learn, features, and so on), and share references if available.
* Share any experience on performing SQL DML, sub queries, joins, views at school or at work. Share any challenges you encountered when you created them in the past.
* Share your experience on improving query performance such as indexing. If you have experience creating index, please share types of indexes, reasons to create them, and performance improvement if available.
* Share your experience on handling dynamic SQL and SQL injection issues. Do you or your colleagues use any tools to identify and remediate application vulnerabilities in applications?  If yes, please share your experience and the process to address application vulnerabilities.

I have very limited experience in SQL outside of HW4, thus I plan to lean on the lectures and topics that have been discussed thus far in this course. I have found the syntax of SQL relatively easy to pick up; when creating tables and inserting tuples the syntax is very easy to follow exactly what you are doing. This is also my experience for simple queries, however as the queries get more complex (especially for the division part of HW4) I have found that sometimes the syntax can be a little confusing, and it may be difficult to parse exactly what is happening. This is the case for many programming languages as well, however, thus I am hopeful that I can learn more with time.

I have no prior experience with SQL, DML, sub queries, joins, views etc from school, which was a big reason that I decided to take this course. At work, I have done just a tiny bit (select \* from table) to query some data that was in a postgresql table, anything more complicated than that I would need help from one of the database experts in the group. In my free time I built out a NoSQL database, however that has very different syntax, and not much carried over to SQL.

I have absolutely no experience with with query optimization in my prior education or work experience. The NoSQL database that I worked on did not require any query optimization either. Some strategies to try during query optimization include compressing the data into fewer tables, repeating data, creating materialized views, etc.

I have no experience with handling dynamic SQL and SQL injection. I was not made aware of these concepts before the start of this course even. I would imagine that my colleagues consider these types of things, especially the database experts since we work often with classified data. I am interested to poll my colleagues at the conclusion of this course and quarantine on some of the methods they use to further my knowledge on the topic.