Relational Databases with MySQL Week 5 Research Assignment

**Points possible:** 30

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| Category | Criteria | % of Grade |
| Accuracy | Is the information accurate? | 25 |
| Organization | Is the essay clean and organized? Ideas are presented in a logical order. | 25 |
| Citations | Students reference and cite at least 5 sources. | 25 |
| Completeness | All requirements of the assignment are complete. | 25 |

**Instructions:** In however many words necessary, write a thorough essay response to each of the below prompts. Be sure to include at least 5 references for this assignment. Do not copy and paste text from the internet or any other source; use the information you find in your research, summarize, in your own words, the concepts. Plagiarism will result in a zero for the assignment as well as disciplinary actions. Push this document to your GitHub repository for this week. Add the URL for this week’s repository to this document where instructed and submit this document to your instructor when complete.

**What is a PreparedStatement? Why is it important?**

A prepared statement is an SQL query that runs from the application to prevent SQL injections and keeps results consistent in the code.

**What method on a PreparedStatement can you use to execute a SELECT query? What method would you use to run an UPDATE query?**

A display method can use a select query because it just needs to read data from the database and then print it to the console. An update query would be run with an update method to change data that has already been put into the database.

**What is your favorite thing you learned this week?**

My favorite thing I learned this week is how to create an application that reads and writes to a database so my information doesn’t disappear when I close the application.

**References:**

<https://www.w3schools.com/php/php_mysql_prepared_statements.asp>

<https://docs.oracle.com/javase/tutorial/jdbc/basics/prepared.html>

**URL to GitHub Repository**: https://github.com/Wmsmckay/Week11Homework