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?**

**The PreparedStatement helps us as developers to create a SQL statement template which is created and sent to the database. The Preparedstatement because it executes numerous times and with different values.**

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

**To execute a SELECT Query:**

**preparedStatment.executeQuery();**

**To execute a UPDATE Query:**

**//set preparedstatement parameter**

**ps.setString(I,id);**

**Ps.setString(2,firstName);**

**ps.setInt(3, state);**

**//call executeUpdate to deliver SQL UPDATE**

**ps.executeUpdate();**

**Ps.close();**

**}**

**Catch (SQLException se)**

**{**

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

**My favorite thing about this week was creating the databases.**

**References:**

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

**<https://www.tutorialspoint.com/jdbc/preparestatement-object-example.htm>**

**<https://stackoverflow.com/questions/9621428/java-mysql-preparedstatement-select-statement>**

**<https://www.youtube.com/watch?v=gU3DLOsw0Eg>**

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

**URL to GitHub Repository:**

**<https://github.com/ash2042987/Week11RelationalDatabaseswithMySQL>**