Relational Databases with MySQL Week 6 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 the value in separating your code into controller, service, and data access layers rather than keeping it all in the same files?**

**It keeps all the code organized and easy to use instead of jumbled.**

**Why would you want to avoid putting credentials in plaintext in your code?**

**Its a security risk putting anything private in plain text because it leaves the code vulnerable. to things such as SQL injection.**

**What is one method that can be used to avoid putting plaintext database usernames and passwords into your code?**

**you can use private methods to call your usernames and passwords for when they need to be used.**

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

**I have really enjoyed jumping deeper into creating CRUD's in java/mysql.**

**References:**

[**https://www.theserverside.com/feature/How-to-remove-plain-text-passwords-for-a-secure-Java-code-base**](https://www.theserverside.com/feature/How-to-remove-plain-text-passwords-for-a-secure-Java-code-base)

**URL to GitHub Repository:** [**https://github.com/Cbraze/week6.git**](https://github.com/Cbraze/week6.git)