Week 7 Research

- Research the SOLID principles of OOP as introduced by Robert Martin.

  - Single Responsibility Principle – a class should do one thing and should only have a single reason to change.

  - Open-Closed Principle – classes should be open for extension and closed to modification.

  - Liskov Substitution Principle – sub-classes should be able to be substituted for their base classes.

  - Interface Segregation Principle – keep interfaces separate, more is better, to avoid forced implementation of functions that are not needed.

  - Dependency Inversion Principle – classes should depend upon interfaces or abstract classes instead of concrete classes and functions.

- What are wildcards in MySQL? How are they useful?

  - Wildcards are special characters that when applied to database queries, help to search for specific entries within the database.

  - % Wildcard – matches any string of zero or more characters.

  - _ Wildcard – matches any single character.

- Favorite thing learned this week: All of the topics this week were interesting to me since SQL isn't a topic I had ever explored in the past. Wildcards seemed particularly useful though, especially when looking for specific entries.