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**Course**: Foundations of Databases and SQL Programming

**Assignment 6 - Writeup for Module 6**

**Introduction:**

SQL Views, Functions, Stored Procedures are tools to select data for reporting purposes. Data administrators may use them for other purposes.

**When to use an SQL View:**

Views are used to save complex SQL statements within a database, thus allowing general users, who may not have technical knowledge, work with the data stored. Database administrators can use a View to grant or deny users access to the data. Views are also useful when changes must be made to the underlying table.

**Differences/similarities between Views, Functions and Stored Procedures:**

Views, Functions, and Stored Procedures have similar syntax and can produce same results. The difference between Views and Functions is that a Function can return a single value when used as a parameter.

While Views and Functions are named Select statements, Stored Procedures are not limited to Select statements. Users can use INSERT or UPDATE statements in Stored Procedures. However, unlike Views and Functions whose codes are stored in a database, users have to run the code in Stored Procedures to produce results.

**Summary:**

SQL Views, Functions, Stored Procedures are used for reporting purposes. They have similar syntax and can produce same results.