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Assignment 06

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# SQL Views, Functions, and Stored Procedure

## Introduction

This week’s module was about Views, Functions, and Stored Procedures. As out SQL Select statements become more elaborate, it can be beneficial to save our Select statement in a SQL View, Function, or Stored Procedure. In this document, we explain when we use Views in SQL then discuss the differences between a View, Function or Stored Procedure.

## Explain when you would use a SQL View.

SQL Views (in addition to a Function or Stored Procedure) allow us to save more complex Select statements within a database’s file as a View. We use views when pulling the same subset of data frequently. Creating a view speeds the return of data from queries, especially from large datasets. Views can help users to save time with data aggregation and sorting.

With Views we can structure data in a way we or other users would find intuitive. We can also restrict access to data in such a way that only certain users can see or potentially modify data to fit exactly what they need. Views can also be used to summarize data from various tables that can be used to generate reports (tutorials point)

## Explain are the differences and similarities between a View, Function, and Stored Procedure.

In many ways, Views and Stored Procedures are the same. Stored procedures are similar to Views and Functions, however they’re scope is not limited to SQL within a database. An example of a Stored Procedure is a process that can be run every time you open a database.

Views and Functions are both “Named” Select statements in SQL whose code is saved in a database. Stored Procedures are similar, but they are not restricted to just Select statements.

Views and Functions are similar in that they both use SQL script to form similar/ same actions.

For example, creating a stagnant table.

## Conclusion

In this document, we discussed Views, Functions, and Stored Procedures in SQL Server. SQL Views, Functions, and Stored Procedures are useful because they allow us to save more complex Select statements within a database’s file.

## References

1. Calbimonte D. Functions vs. stored procedures in SQL server. 2017. from <https://www.sqlshack.com/functions-vs-stored-procedures-sql-server/> .

2. SQL - using views. 2021. from <https://www.tutorialspoint.com/sql/sql-using-views.htm> .

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