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# Assignment 6 – Views, Functions, and Stored Procedures

## Introduction

In this module, we learn how to use a SQL View, Function, or Stored Procedure to extract and present data for reporting purposes.

## SQL View

View in SQL creates virtual tables, which include rows and columns same as real tables in database. SQL View allows users to save time by not having to retype their queries. Additionally, it plays an important role to ensure the security of database tables by preventing direct data access.

## Differences and similarities between a View, Function, and Stored procedures

A View, Function, and Stored procedures enable users to avoid having to re-enter their queries and protect data privacy by restricting data access.

While a View does not use parameters, a Function and a Stored Procedure accept parameters to change the results.

While a Function always returns a single value, a Stored Procedure can return zero ỏ more values.

Unlike a Stored Procedure, a View and a Function can use SELECT, WHERE and Having Statements.

## Summary

The Views, Functions, and Stored procedures help users not only save data for repeated use without re-importing, but also protect database from direct data access.