

Darlene Fritts
Foundations of Databases and SQL Programming
Assignment 06
<github link>

Introduction

This week we focused heavily on creating views. We started with Base Views then built more complex views. We learned about Functions and Stored Procedures and differences between the three.

Explain when you would use a SQL View:

Creating a view is helpful to set up a defined query, where a user can run the query without having to write the code every time they want to pull the same information from the table.

Additionally, creating a SQL view allows users to:

- Structure data in a way that users or classes of users find natural or intuitive.
- Restrict access to the data in such a way that a user can see and (sometimes) modify exactly what they need and no more.
- Summarize data from various tables which can be used to generate reports. ¹

Explain the differences between a View, Function and Stored Procedure:

Views are saved queries that can be run without having to write the code every time you want to run a specific query.

Views and Functions are similar, but the major difference is that a Function can accept parameters, whereas a View cannot.

A stored Procedure is a named set of SQL statements. You can have a variety of statements in a stored Procedure as Procedures are very flexible. When you use a View or Function you Select the data you want to retrieve from a table, but with a Procedure you Execute/Run your code and it returns the values of the code. ²

Summary

Each week we are building our knowledge of Databases and SQL programming, from the very basics, up to creating views this week. For me personally, this week was a bit difficult, but after watching the recap video I feel like I am understanding a bit more of the programming logic/syntax, which is what I was hoping for by taking this class.

¹ <https://www.tutorialspoint.com/sql/sql-using-views.htm>

² <https://www.youtube.com/watch?v=22yz763fAg0&t=220s>