Nariman Tehrani

February 24, 2021

Foundations of Databases & SQL Programming

Assignment 06

SQL Views, Functions, and Stored Procedures

***Introduction:***

This document explains when Views are used and how they are similar to or different from Functions and Stored Procedures.

1. ***When a SQL VIEW is used***

A SQL View is created to put distance between the user and the database as part of the abstraction layer. It is useful because a View is essentially a saved Select statement which the user does not have to write every time. Data is also better protected if most users only have access to views instead of the actual tables housing the data. This way tables can be changed in the background as the database evolves without disrupting end-users’ work.

1. Differences and similarities between a View, Function, and Stored Procedure

Functions are similar to Views except they can accept parameters when called. This means they are more flexible than Views and display different results based on the parameter passed to them.

Stored Procedures are more complex than Views and Functions because they can contain variables, loops, and calls to other stored procedures.

***Summary:***

This document explained when Views are used and how they are similar to or different from Functions and Stored Procedures.