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**Course:** IT FDN 130 A Su 25: Foundations Of Databases & SQL Programming

**GITHUB:** <https://github.com/lisanxd-cmyk/DBFoundations>

## **Module 06: Views**

### **INTRODUCTION**

In the fifth week of IT FDN 130 A Su 25: Foundations Of Databases & SQL Programming, we are focusing on Module 06: Views. We are expanding upon previous weeks querying the results of sample tables in different ways by creating Views, utilizing a database template with a list of todos. We explored a variety of content as provided by our Instructor, Randal Root, which is referenced at the end of this document.

### **Explain when you would use a SQL View:**

SQL Views are used for a variety of different reasons. One reason is to protect sensitive information, such as social security numbers. A view would be created excluding sensitive information that the backend table might contain for HR purposes. Another reason is to visually combine or split data that exists in a different manner in the table (such as combining first and last names of a customer or combining city and state).

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

Views, Functions, and Stored Procedures are all ways in SQL to query data in a different manner than pulling from the table itself that the data is stored in. Views, functions, and stored procedures do not hold the table data themselves. But they can be used to change how the data is queried.

Views are used to display only portions of a table – essentially they are a digital table that is temporary. Views can be used to hold simple or complex statements and can combine data from different tables.

Functions are built in code for processes such as average, sum, count, round, etc. Functions are not user created and they already exist within SQL – similar to functions in an Excel spreadsheet.

Stored procedures are blocks of SQL code that can execute multiple processes and are stored within a SQL database. These stored procedures can easily be referenced once created to repeat multiple blocks, without having to copy/paste code from another source.

### **SUMMARY**

In Module 06, we built upon querying data from our sample database in various manners by creating more complex views that included order by, where, and join clauses.

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