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**Technical Seminar Synopsis
Technical Seminar (18CSS84)**

Submitted by:

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Topic: SQL Injection

Abstract:

The acronym SQL stands for Structured Query Language. SQL is used to interact with a database and manipulate the information stored inside. Database normally contains data definition language and data manipulation language for allowing result retrieval. Meanwhile, SQL injection is a method for hackers to execute malicious SQL queries on the database server. It can be used to gain access to databases containing sensitive information via a web-based application. An SQL statement will be changed in such a way that ALWAYS TRUE is used as a constraint.

For an ever-increasing number of activities, such as banking and shopping, we rely on database-driven online apps. We entrust our personal information to these web applications and their underlying databases when we engage in such activities. Web applications are frequently subject to assaults, giving an attacker complete access to the application's underlying database. As a result, attacks pose a significant risk to the confidentiality, integrity, and availability of database data and structure, as well as the hosting systems and applications that rely on them, necessitating the immediate attention of application developers and the deployment of effective prevention solutions. Protecting online applications (such as websites) and web services from SQL Injection Attacks has consequently become a top priority for businesses. Through my seminar I'll be trying to answer the following review questions

1. What does the term SQL, Query, Injection really means?
2. What is the purpose of a SQL Injection attack?
3. How this attack is processed?
4. What will be the consequences of this SQL Injection attack?
5. What can be done to prevent it?