

# Assignment Project Exam Help

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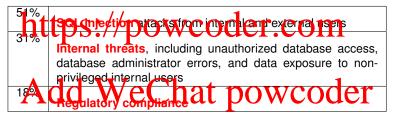
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#### **A Survey**

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2012) shows that the most critical database security concerns are:



 Surveyed more than six thousand users – IT administrators, DBAs, data security professionals and consultants.



#### SQL Injection

# Assignment Project Fxam Help (considered as one of the top 10 web application vulnerabilities of 2007 and 2010 by the Open Web Application Security Project).

- schittipsi // particovae ricama.
- Web applications often access a database by

### \*\*Contest to hydrate (set) hat powcoder 2 Send SQL statements and data to the database; ← SQL Injection!

- Fetch the result and display data from the database;
- Close the connection.



#### What is SQL Injection?

# Assignment Project Exam Help In Sol Injection attacks, hackers hiject a string input through the Web

- In Stale injection attacks, hackers hject a string input through the Web application which changes the SQL statement to their advantages.
- "https://powcoder.com
  - change the database content,
  - retrieve sensitive data in the database like credit card or passwords,
  - As a system of masthap water Office I deny service to the application,
  - ...



#### What is SQL Injection?

# $\Delta ssh$ injection attacks. Backers inject a string input through the Wite 1p

- It can harm the database in various ways:
  - change the database content,

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    A ship is a ship in the last and but a ship in the last
  - execute system level commands that may cause the system to deny service to the application,
  - Acceptive Card Payment Processing Windows Card Systems had an SQL injection attack in June 2005, in which 263,000 credit card numbers were stolen from its database. Card Systems lost large amounts of business

and its assets were acquired by another company.



#### **SQL Injection – Example**

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• The foldwing query is issued by a simplistic authentication procedure:

SELECT \* FROM users WHERE name='jake' and password='passwd';

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#### **SQL Injection – Example**

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SELECT \* FROM users WHERE name='jake' and password='passwd';

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SELECT \* FROM users WHERE name='jake'

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SELECT \* FROM users WHERE name='jake'

AND password='p'; DROP TABLE users; --;';



#### **SQL Injection – Example**

# Assignments Project aut En van med Help

SELECT \* FROM users WHERE name='jake' and password='passwd';

• The attacker can change the SQL statement as follows:

SELECT \* FROM users WHERE name='jake'

AND password='p' OR 'x'='x';

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AND password='p'; DROP TABLE users; --;';

 Because the query here is constructed from strings, the use of quotes has turned the original WHERE condition into a condition that is always true.



#### **SQL** Injection – Another Example



link to this comic: http://xkcd.com/327/



#### **SQL Injection – Protection Techniques**

# As Scheding used the Melb-accessible procedures and inherital in the policy of the procedures and inheritals in the procedure and

 Parameterized queries is used to improve security by preventing SQL injection (best solution). For example,

```
reparedStatement control presents at enert in SELECT * FROM users WHERE name=? and password=?");

stmt.setString(1, user_name);

Astmt.setString(2, user_passwd);

Astmt.setString(2, user_passwd);

Astmt.setString(2, user_passwd);

Strings. For example,

"SELECT * FROM users WHERE name = '" + escape(user_name) +

"' and password= '" +escape(user_passwd) +"'"
```

In this case, user\_name can't be p' OR 'x'='x.



#### Summary

# Assignment in the project Exam Help Ensure that only authenticated users can access the system (i.e.,

- Ensure that only authenticated users can access the system (i.e., authentication).
- Ensure that authenticated users can access only data/interfaces that
- SQL injection attacks are an important security threat. Nevertheless, avoiding SQL injection vulnerabilities is much easier than you might think.
  - SQL Injection in troit (www.worchocks.com/xql/sql/injection.asp)
    Testing for SQL Injection (OTG-INPVAL-005))
  - SQL Injection Prevention Cheat Sheet (https://www.owasp.org/index.php/SQL\_Injection\_Prevention\_Cheat\_Sheet)
  - "Foundations of Security: What Every Programmer Needs To Know" by Neil Daswani, Christoph Kern, and Anita Kesavan