

## Assignment Project Exam Help

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#### **A Survey**

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

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 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 a

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- Web applications often access a database by
  - Send SQL statements and data to the datab
  - 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

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  - retrieve sensitive data in the database like c

xddsysWeeChathedu\_assist\_pr service to the application.



#### What is SQL Injection?

### ASS in self-injection attenties, blokers inject a string in put through the Wilbelp application which changes the SQL statement to their advantages.

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in which 263,000 credit card numbers were stolen from its database. CardSystems lost large amounts of business and its assets were acquired by another company.



#### **SQL** Injection – Example

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#### **SQL Injection – Example**

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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**

## Assing of the state of the stat

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AND password='p' OR '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**

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



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

### As Schedin dues that Met-accessible procedures and invarious I Telp

Parameterized queries is used to improve security by preventing SQL

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```
stmt.setString(1, user_name);
```

Astat. set String (2, asset -passwd edu\_assist\_property edu\_assist

```
"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 it in the Project Exam Help Ensure that only authenticated users can access the system (i.e.,

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avoiding SQL injection vulnerabilities is much ea

## ASCA Projection What the (www.pageto.edu\_assistasp) Presting 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