

# 程序代写代做 CS编程辅导



WeChat: estutores SQL Injection Assignment Project Exam Help

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### 程序代写代做 CS编程辅导 A Survey

 A survey by GreenS(1,1,1,1) www.greensql.com, released on April 3, 2012) shows that the 1,2,4,4,4,5 cal database security concerns are:

51%	SQL injection attacks from internal and external users
31%	Internal threatisging with Tinjauth Trize and the base access, database administrator errors, and data exposure to non-privileged in ternal lustres of 163.com
18%	Regulatory@mplipgse9476

Surveyed more than six thousand user some administrators, DBAs, data security professionals and consultants.



### 程序代写代做 CS编程辅导 SQL Injection

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   SQL injection can be used to attack any type of SQL databases.
- Web applications often access a database by
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    Connect to the database:
  - 2 Send SQL statements and gara to the database; ← SQL Injection!
  - Fetch the resultand display data from the database;
  - Close the connection.



# 程序代写代做 CS编程辅导 What is SQL Injection?

- In SQL injection att the error inject a string input through the Web application which changes the SQL statement to their advantages.
- It can harm the database in various ways:
  - change the databasignment Project Exam Help
  - retrieve sensitive data in the database like credit card or passwords,
  - execute system level sommands that may cause the system to deny service to the application,
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A credit care payment processing company called CardSystems had an SQL injection attack in June 2005, 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.



# 程序代写代做 CS编程辅导 SQL Injection – Example



• The following query is subdiby a supplisfic authentication procedure:

SELECT \* FROM use As Signment Project Exampated pd='passwd';

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# 程序代写代做 CS编程辅导 SQL Injection – Example

The following query 🔁 a simplistic authentication procedure:

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

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The attacker can change the SQL statement as follows:

# Assignment Project Exam Help SELECT \* FROM users WHERE name='jake'

Emnibatutoras@168.com'x';

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SELECT \* FROM users WHERE name='jake' https://tutorcs.com
AND password='p'; DROP TABLE users; --;';



# 程序代写代做 CS编程辅导 SQL Injection – Example

• The following query a simplistic authentication procedure:

```
SELECT * FROM use name='jake' and password='passwd';
```

The attacker can change the SQLS tatement as follows:

```
SELECT * FROM useAs MERRIE ment Project Exam Help

AND password='p' OR 'x'='x';
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SELECT * FROM useQQWHEAP 380476ake'

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

 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.



# 程序代写代做 CS编程辅导 SQL Injection – Another Example

HI, THIS IS
YOUR SON'S SCHOOL.
WE'RE HAVING SOME
COMPUTER TROUBLE.

OH, DEIRE DID YOU REALLY
BREAD NAME YOUR SON
Robert'); DROP
We Chat: cstart Freents; --?
Assignment Project Freents
Ennail: tutores @ Fo3.com

WELL, WEVE LOST THIS
YEAR'S STUDENT RECORDS.
I HOPE YOU'RE HAPPY.

AND I HOPE
YOU'VE LEARNED
TO SANITIZE YOU'R
DATABASE INPUTS.

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



# 程序代写代做 CS编程辅导 SQL Injection – Protection Techniques

- Protection against S attacks can be achieved by applying certain rules to all W be be procedures and functions.
  - Parameterizec used to improve security by preventing SQL injection (best solution). For example,

```
PreparedStatement(

"SELECT * FROM users where pame=? And password=?");

stmt.setString(1, user password);

stmt.setString(2, user password) 63.com
```

 Input validation is useptogemove or escape characters from input strings. For example,

```
"SELECT * FRomtons of the second seco
```

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



# 程序代写代做 CS编程辅导 Summary

- Database security is
  - Ensure that on attended users can access the system (i.e., authentication).
  - Ensure that authenticated users can access only data/interfaces that they are authorized to access (i.e., authorization).
- SQL injection attacks Assistamport Aresectify threat Nepertheless, avoiding SQL injection vulnerabilities is much easier than you might think.
   Email: tutorcs@163.com
  - SQL Injection (http://www.w3schools.com/sql/sql\_injection.asp)
  - Testing for SQL(https://bstps76/www.owasp.org/index.php/ 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