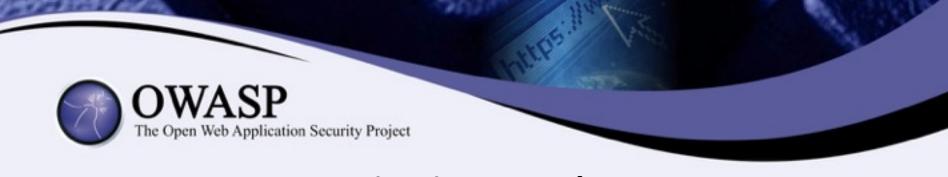






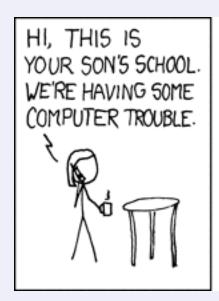
OWASP Top 10 Vulnerabilities - 2017

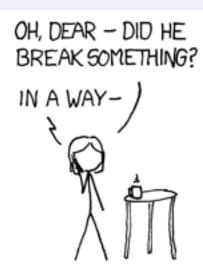
Rank	Name
1	Injection
2	Broken Authentication
3	Sensitive Data Exposure
4	XML External Entities
5	Broken Access Control
6	Security Misconfiguration
7	Cross-Site Scripting
8	Insecure Deserialization
9	Using Components with Known Vulnerabilities
10	Insufficient Logging & Monitoring

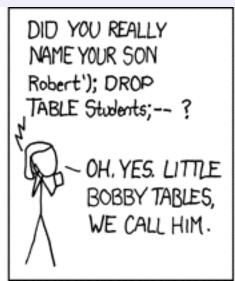


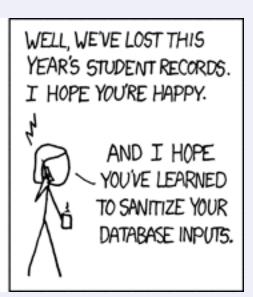
Injection Attacks

An important lesson: Trust nobody











Explanation

Suppose user makes a modified HTTP request

> https://www.store.com/orders?year=0%20OR%201%3D1

SELECT date, item FROM orders

WHERE user=126 AND year=0 OR 1=1

Effect

- > sets year variable to 0 OR 1=1
- > shows all orders in the database



Price List for Stolen Data

Address	\$0.50
Phone number	\$0.25
Unpublished phone	\$17.50
Cell phone number	\$10
Date of birth	\$2
Social Security number	\$8
Drivers's License	\$3
Education	\$12
Credit History	<i>\$9</i>
Bankruptcy details	\$26.50
Lawsuit information	\$2.95



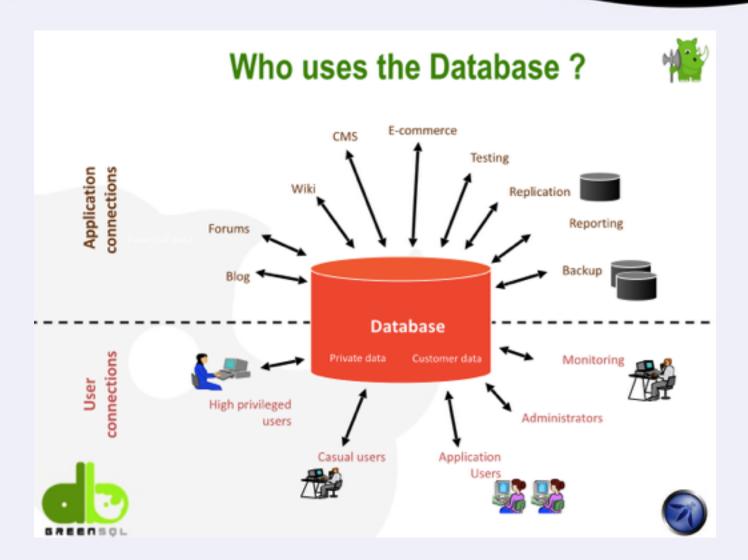
Solution

Use parameterized queries, and don't sweat it!

```
// PHP - PDO

$stmt = $dbh->prepare("INSERT INTO REGISTRY (name, value) VALUES (:name, :value)");
$stmt->bindParam(':name', $name);
$stmt->bindParam(':value', $value);
```







Thanks for your attention! :-)

(Easy) Questions?