What Are SQL Injection Attacks & Its Types

SQL (Structured Query Language) is a language that is generally designed to manage data in a structured database.

An injection attack typically targets the database to trick the system into doing undesirable & unexpected things like bypassing authentication, modifying or deleting data.

Types Of SQL Injection

1 **In-Band SQLi -** This type of injection attack occurs when an attacker uses exactly the same communication channel for initiating the attack and for gathering the results. The two most common in-band SQLi are

- Error-based SQLi
- Union-based SQLi

2 **Inferential SQLi -** These are also known as blind SQL injection attacks. In such an attack, the attackers can not see the result of the attack in-band since no data is transferred via web application. The types include:

- Time-based Blind SQLi
- Boolean-based Blind SQLi

3 **Out-Of-Band SQLi -** In these attacks, an attacker can not use the same communication channel for launching an attack and gathering the results.

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