

Preventing SQL Injection and Inference Attacks

Design a database for a new social media platform.

The platform will store user profiles, posts and comments etc. To ensure data security and integrity, you need to prevent common database security threats, such as SQL injection and inference attacks.

- **Sensitive Data:** User personal information, posts, messages, photos.
- **Security Concerns:** Data breaches, privacy violations.
- **Design Requirements:** Implement strong privacy settings, data encryption, and measures to prevent data breaches and malicious content.

Requirements:

1. **Tables:** Mention the tables (with attributes) and their relationship
2. **Security Considerations:** Provide detailed analysis for each of following
 - **Prevent SQL Injection**
 - **Protect Sensitive Data**
 - **Restrict Access**
 - **Prevent Inference Attacks**
 - **Additional Considerations (if any)**