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**WEB SITE: The UPP**

**The city and the human are inseparable.**

Civilization flourished as human beings evolved to live together in close proximity, starting a centuries long tradition of urbanization and a rich history of design and planning.

This project is dedicated towards documenting the modern city in both its splendor and its decay through a collaborative photography project. Contributions come in from all around the globe, contribute today and show the world what urbanism means to you. Inspired by the 99% Invisible podcast by Roman Mars: [99pi.org](http://99pi.org).

**DATABASE:**  
**TABLE DESIGNS:**

### USER ROLE DESIGN:

[illegible]

## WEB\_USER DESIGN:

[illegible]

Name: web\_user

Schema: sp21\_3308\_tuf93296

Foreign Key

Referenced Table

web\_user\_ibfk\_1

`sp21\_3308\_tuf93296`

<click to edit>

Foreign key details 'web\_user\_ibfk\_1'

Column

Referenced Column

☐

web\_user\_id

☐

user\_email

☐

user\_password

☐

image

☐

birthday

☐

membership\_fee

☒

user\_role\_id

user\_role\_id

Columns

Indexes

Foreign Keys

Triggers

Partitioning

Options

Column	Datatype	PK	NN	UQ	BIN	UN	ZF	AI	G	Default / Expression
photo_id	INT(11)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
location	VARCHAR(45)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL
date_taken	DATE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL
image_url	VARCHAR(400)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
title	VARCHAR(45)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL
blurb	MEDIUMTEXT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL
web_user_id	INT(11)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

<click to edit>

## PHOTO FK:

The screenshot displays a database management interface for a schema named 'sp21\_3308\_tuf93296'. The 'photo' table is selected, and its foreign key details for 'photo\_ibfk\_1' are shown. The foreign key links the 'web\_user\_id' column in the 'photo' table to the 'web\_user\_id' column in the 'web\_user' table. The interface includes a sidebar with a schema tree, a top navigation bar, and a bottom action output log.

**Foreign Key Details:**

Column	Referenced Column
photo_id	
location	
date_taken	
album_id	
image_url	
title	
blurb	
<input checked="" type="checkbox"/> web_user_id	web_user_id

**Foreign key details 'photo\_ibfk\_1'**

On Update: RESTRICT  
On Delete: RESTRICT  
Comment:

☐ Skip on SQL generation

**Action Output:**

Time	Action	Response	Duration / Fetch Time
21:52:37	SELECT title, user_email FROM web_user, photo WHERE photo.web_user_id = web_user.web_user_id ORDER BY title, user_email	10 row(s) returned	0.088 sec / 0.00009...
21:53:59	SELECT title, user_email FROM web_user, photo WHERE photo.web_user_id = web_user.web_user_id and WHERE photo.lo...	Error Code: 1064. You have an error in your SQL synta...	0.019 sec
21:54:26	SELECT title, user_email FROM web_user, photo WHERE photo.web_user_id = web_user.web_user_id and photo.location =...	2 row(s) returned	0.019 sec / 0.000034...

## DATA ENTRY ERRORS:

### DUPLICATE USER\_ROLE PK IN USER\_ROLE RECORD:

Apply SQL Script to Database

Applying SQL script to the database

The following tasks will now be executed. Please monitor the execution. Press Show Logs to see the execution logs.

Execute SQL Statements

Error: There was an error while applying the SQL script to the database.

Message Log

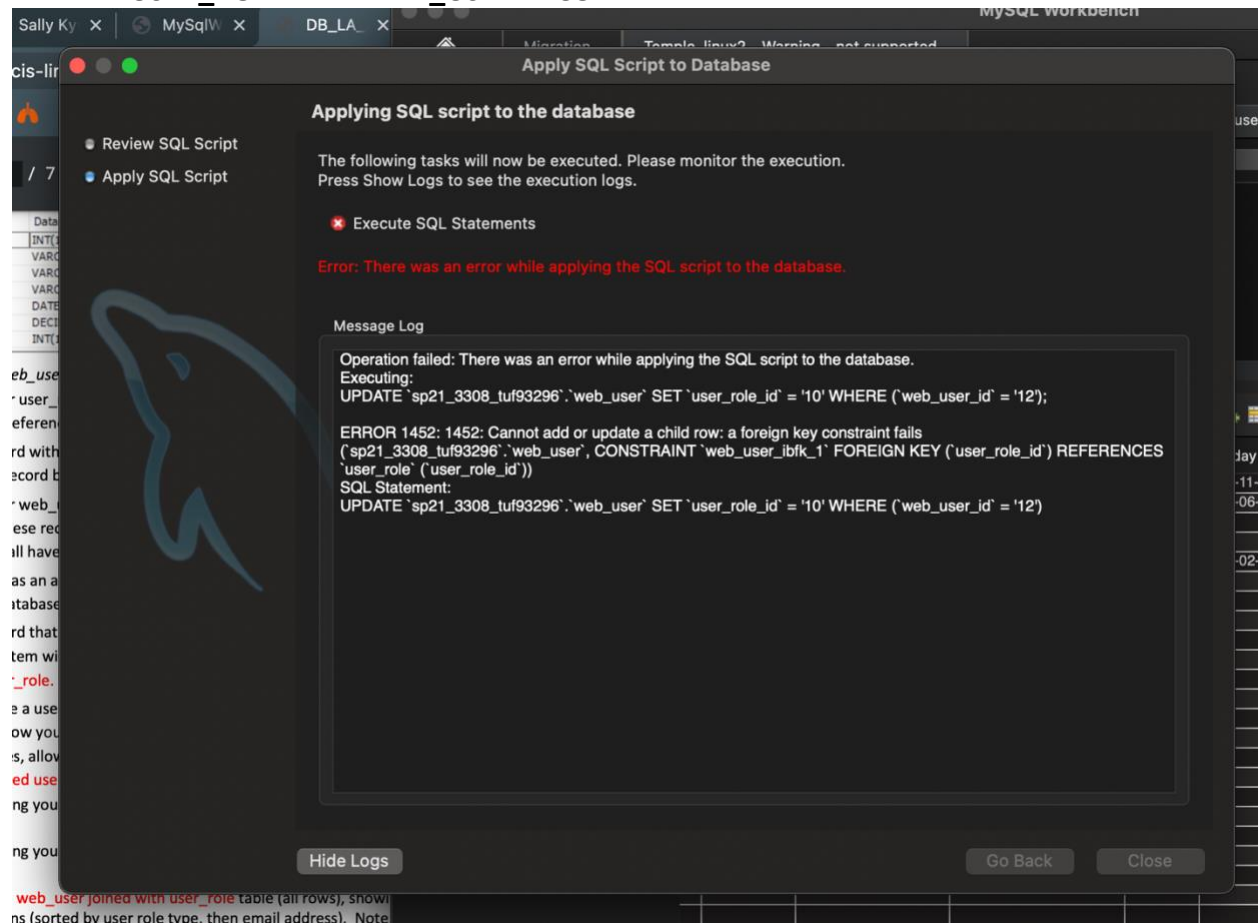
Executing:  
INSERT INTO `sp21\_3308\_tuf93296`.`user\_role` (`user\_role\_id`, `user\_role\_type`) VALUES ('1', 'DUP');

Operation failed: There was an error while applying the SQL script to the database.  
ERROR 1062: 1062: Duplicate entry '1' for key 'PRIMARY'  
SQL Statement:  
INSERT INTO `sp21\_3308\_tuf93296`.`user\_role` (`user\_role\_id`, `user\_role\_type`) VALUES ('1', 'DUP')

Hide Logs Go Back Close

	Time	Response
✖ 32	15:34:14	1452: Cannot add or update user_role record.

## INVALID USER\_ROLE FK IN WEB\_USER RECORD:



The screenshot shows the MySQL Workbench interface with a dialog box titled "Apply SQL Script to Database". The dialog has two tabs: "Review SQL Script" and "Apply SQL Script". The "Apply SQL Script" tab is active, showing a message: "The following tasks will now be executed. Please monitor the execution. Press Show Logs to see the execution logs." Below this, there is a red error message: "Error: There was an error while applying the SQL script to the database." and a "Message Log" section. The Message Log contains the following text:

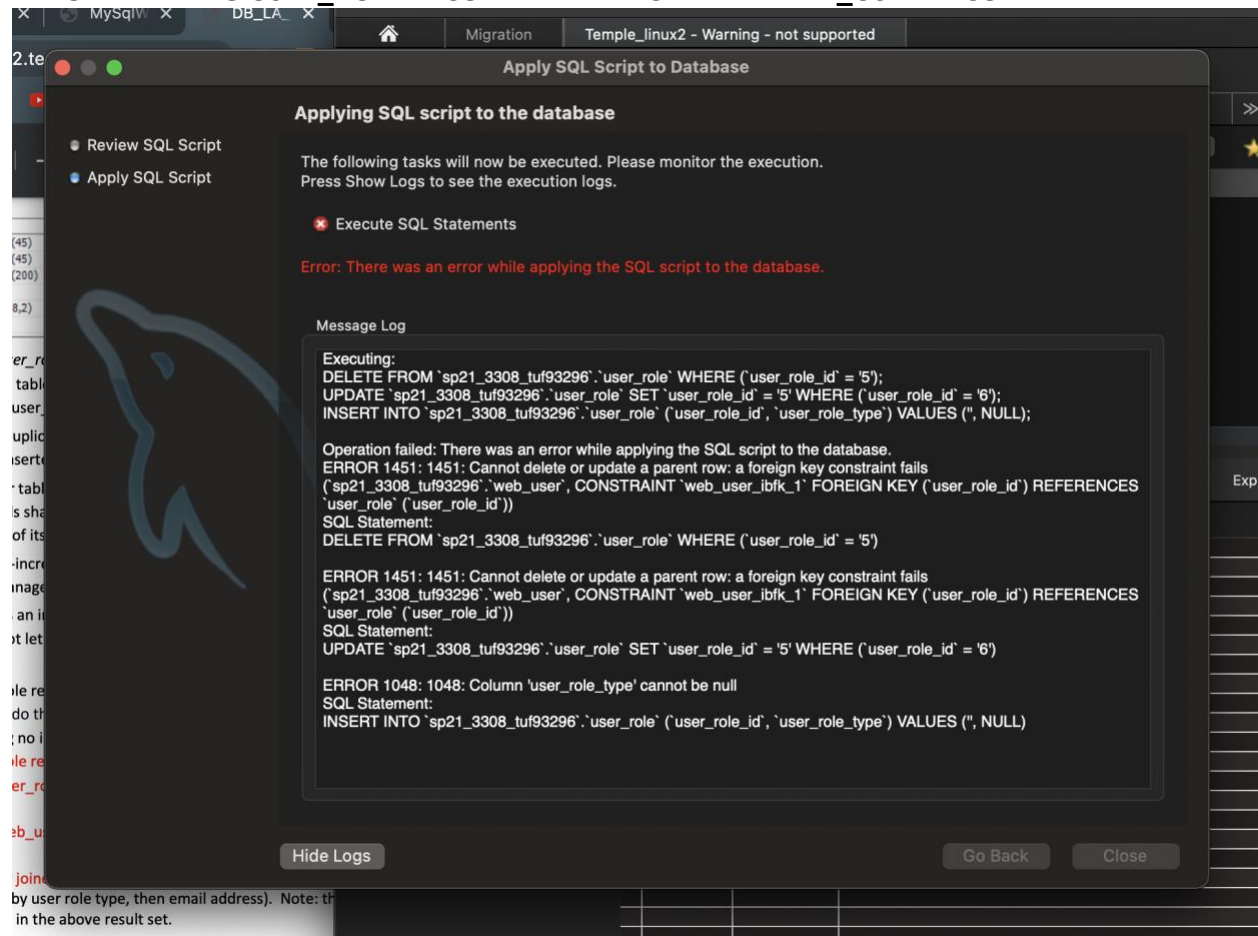
```
Operation failed: There was an error while applying the SQL script to the database.
Executing:
UPDATE `sp21_3308_tuf93296`.`web_user` SET `user_role_id` = '10' WHERE (`web_user_id` = '12');

ERROR 1452: 1452: Cannot add or update a child row: a foreign key constraint fails
(`sp21_3308_tuf93296`.`web_user`, CONSTRAINT `web_user_ibfk_1` FOREIGN KEY (`user_role_id`) REFERENCES
`user_role` (`user_role_id`))
SQL Statement:
UPDATE `sp21_3308_tuf93296`.`web_user` SET `user_role_id` = '10' WHERE (`web_user_id` = '12')
```

At the bottom of the dialog, there are buttons for "Hide Logs", "Go Back", and "Close".

web\_user joined with user\_role table (all rows), showing records (sorted by user role type, then email address). Note

## ERROR DELETING USER\_ROLE RECORD REFERENCED BY A WEB\_USER RECORD:



The screenshot shows a MySQL Workbench window with a tab titled 'DB\_LA'. A dialog box titled 'Apply SQL Script to Database' is open. The dialog has a sidebar with 'Review SQL Script' and 'Apply SQL Script' (selected). The main area is titled 'Applying SQL script to the database' and contains the text: 'The following tasks will now be executed. Please monitor the execution. Press Show Logs to see the execution logs.' Below this is a red 'X' icon and the text 'Execute SQL Statements'. A red error message states: 'Error: There was an error while applying the SQL script to the database.' A 'Message Log' section is expanded, showing the following content:

```
Executing:
DELETE FROM `sp21_3308_tuf93296`.`user_role` WHERE (`user_role_id` = '5');
UPDATE `sp21_3308_tuf93296`.`user_role` SET `user_role_id` = '5' WHERE (`user_role_id` = '6');
INSERT INTO `sp21_3308_tuf93296`.`user_role` (`user_role_id`, `user_role_type`) VALUES ('', NULL);

Operation failed: There was an error while applying the SQL script to the database.
ERROR 1451: 1451: Cannot delete or update a parent row: a foreign key constraint fails
(`sp21_3308_tuf93296`.`web_user`, CONSTRAINT `web_user_ibfk_1` FOREIGN KEY (`user_role_id`) REFERENCES
`user_role` (`user_role_id`))
SQL Statement:
DELETE FROM `sp21_3308_tuf93296`.`user_role` WHERE (`user_role_id` = '5')

ERROR 1451: 1451: Cannot delete or update a parent row: a foreign key constraint fails
(`sp21_3308_tuf93296`.`web_user`, CONSTRAINT `web_user_ibfk_1` FOREIGN KEY (`user_role_id`) REFERENCES
`user_role` (`user_role_id`))
SQL Statement:
UPDATE `sp21_3308_tuf93296`.`user_role` SET `user_role_id` = '5' WHERE (`user_role_id` = '6')

ERROR 1048: 1048: Column 'user_role_type' cannot be null
SQL Statement:
INSERT INTO `sp21_3308_tuf93296`.`user_role` (`user_role_id`, `user_role_type`) VALUES ('', NULL)
```

At the bottom of the dialog, there are buttons for 'Hide Logs', 'Go Back', and 'Close'.

## INVALID WEB\_USER FK IN PHOTO RECORD:

The screenshot shows the MySQL Workbench interface. The 'Schemas' pane on the left lists databases, including 'sp21\_3308\_tuf93296'. The 'Tables' pane shows 'photo' and 'web\_user'. The 'Message Log' pane displays the following error:

```
Operation failed: There was an error while applying the SQL script to the database.
Executing:
INSERT INTO `sp21_3308_tuf93296`.`photo` (`location`,`image_url`,`title`,`web_user_id`) VALUES ('Chicago, IL',
'https://www.google.com/imgres?imgurl=https%3A%2F%2Fwww.chicagotribune.com%2Fresizer%2FhR47wVrJUG96K68L0vzdG-35fc%3D%2F1200x0
%2F10p%2Farc-anglefish-arc2-prod-
tronic.s3.amazonaws.com%2Fpublic%2FXVHFCUJACIAVA58OMK3N5JOI.jpg&imgrefurl=https%3A%2F%2Fwww.c
hicagotribune.com%2Fentertainment%2Fct-ent-chicago-river-meaning-kogan-sidewalks-0219-
story.html&btnid=TXegwopOnV6M&vet=12ahUKEwjy8qAse3uAhXYC98KH5OKCWgQMgDegUIARDBAQ_&docid=
SEwGZ8Nt0BM&w=1200&h=675&q=chicago%20river&ved=2ahUKEwjy8qAse3uAhXYC98KH5OKCWgQMgDegUI
ARDBAQ_The Beautiful (and freezing) Chicago River', 999);

ERROR 1452: 1452: Cannot add or update a child row: a foreign key constraint fails (`sp21_3308_tuf93296`.`photo`,
CONSTRAINT `photo_ibfk_1` FOREIGN KEY (`web_user_id`) REFERENCES `web_user` (`web_user_id`))
SQL Statement:
INSERT INTO `sp21_3308_tuf93296`.`photo` (`location`,`image_url`,`title`,`web_user_id`) VALUES ('Chicago, IL',
'https://www.google.com/imgres?imgurl=https%3A%2F%2Fwww.chicagotribune.com%2Fresizer%2FhR47wVrJUG96K68L0vzdG-35fc%3D%2F1200x0
%2F10p%2Farc-anglefish-arc2-prod-
tronic.s3.amazonaws.com%2Fpublic%2FXVHFCUJACIAVA58OMK3N5JOI.jpg&imgrefurl=https%3A%2F%2Fwww.c
hicagotribune.com%2Fentertainment%2Fct-ent-chicago-river-meaning-kogan-sidewalks-0219-
story.html&btnid=TXegwopOnV6M&vet=12ahUKEwjy8qAse3uAhXYC98KH5OKCWgQMgDegUIARDBAQ_&docid=
SEwGZ8Nt0BM&w=1200&h=675&q=chicago%20river&ved=2ahUKEwjy8qAse3uAhXYC98KH5OKCWgQMgDegUI
ARDBAQ_The Beautiful (and freezing) Chicago River', 999);
```

The 'Results' pane shows the following data:

Time	Action	Response	Duration / Fetch Time
29	20:57:20	SELECT * FROM user_role LIMIT 0, 1000	7 row(s) returned 0.019 sec / 0.000012...
30	20:59:32	SELECT * FROM web_user LIMIT 0, 1000	7 row(s) returned 0.020 sec / 0.000023...
31	21:17:39	SELECT * FROM photo LIMIT 0, 1000	0 row(s) returned 0.022 sec / 0.000023...

## ERROR DELETING WEB-USER RECORD REFERENCED BY PHOTO RECORD:

The screenshot shows the MySQL Workbench interface. The 'Schemas' pane on the left lists databases, including 'sp21\_3308\_tuf93296'. The 'Tables' pane shows 'photo' and 'web\_user'. The 'Message Log' pane displays the following error:

```
Operation failed: There was an error while applying the SQL script to the database.
Executing:
DELETE FROM `sp21_3308_tuf93296`.`web_user` WHERE (`web_user_id` = 6);

ERROR 1451: 1451: Cannot delete or update a parent row: a foreign key constraint fails
(`sp21_3308_tuf93296`.`photo`, CONSTRAINT `photo_ibfk_1` FOREIGN KEY (`web_user_id`) REFERENCES
`web_user` (`web_user_id`))
SQL Statement:
DELETE FROM `sp21_3308_tuf93296`.`web_user` WHERE (`web_user_id` = 6)
```

The 'Results' pane shows the following data:

Time	Action	Response	Duration / Fetch Time
29	20:57:20	SELECT * FROM user_role LIMIT 0, 1000	7 row(s) returned 0.019 sec / 0.000012...
30	20:59:32	SELECT * FROM web_user LIMIT 0, 1000	7 row(s) returned 0.020 sec / 0.000023...
31	21:17:39	SELECT * FROM photo LIMIT 0, 1000	0 row(s) returned 0.022 sec / 0.000023...



## SELECT STATEMENTS:

### USER\_ROLE:

The screenshot shows the MySQL Workbench interface. The 'Schemas' pane on the left lists various databases, with 'sp21\_3308\_tuf93296' expanded to show 'Tables' including 'user\_role' and 'web\_user'. The 'user\_role' table is selected. The SQL editor contains the query: `SELECT * FROM user_role;`. The 'Result Grid' shows the following data:

user_role_id	user_role_type
1	Erik
2	Rachel
3	TEST
4	ADMIN
5	Tyji
6	Null Entry
7	Reese
NULL	NULL

The 'Object Info' pane at the bottom left shows 'Table: web\_user'. The 'Session' pane at the bottom right shows 'user\_role 2'.



**WEB\_USER:**

[illegible]

**WEB\_USER JOINED WITH USER\_ROLE (ALL ROWS, CERTAIN COLUMNS):**

The screenshot shows the MySQL Workbench interface. The top toolbar includes icons for home, migration, and warning. The main window is titled "MySQL Workbench" and shows a warning for "Temple\_linux2 - Warning - not supported". The left sidebar displays the "SCHEMAS" tree with "sp21\_3308" selected. The "Tables" list under "sp21\_3308" includes "user\_role" and "web\_user". The "Query Editor" shows a SQL query:   

```

1 SELECT user_role_type, user_email
2 FROM web_user , user_role
3 WHERE web_user.user_role_id = user_role.user_role_id;

```

The "Result Grid" is empty, and the "Action Output" pane shows the error:   

```

1 16:05:39 SELECT user_role_type, user_role.user_r... Error Code: 1054. Unknown column 'web_user_role.user_...
2 16:05:48 SELECT user_role_type, user_role.user_r... 7 row(s) returned
3 16:06:12 SELECT user_role_type, user_email FRO... 7 row(s) returned

```

## PHOTO ALL:

MySQL Workbench

Administration Schemas user\_role - Table user\_role web\_user - Table photo - Table Query 1 SQL File 5\* SQL File 6

SCHEMAS

sp21

sp21\_1056\_tuf97182

sp21\_1056\_tuf66970

sp21\_1056\_tuf74434

sp21\_1056\_tuf57388

sp21\_3308\_tuf20928

sp21\_3308\_tuf50719

sp21\_3308\_tuf58324

sp21\_3308\_tuf93296

Tables

photo

user\_role

web\_user

Views

Stored Procedures

Functions

sp21\_3308\_tuf00581

Showing loaded schemas only

Object Info Session

Table: user\_role

1 SELECT \* FROM photo;

100% 2:1

Result Grid

photo_id	location	date_taken	album_id	image_url	title	blurb	web_user_id
1	Philadelphia, PA, USA	2019-08-10	1	https://www.google.com/...	Philadelphia City Hall	Taken from the north side	1
2	Asakusa, Tokyo, Japan	2019-11-18	NULL	https://www.google.com/...	Tokyo Skytree	Probably the most futuristic mall I've ever been to :)	2
3	LA, California	NULL	NULL	https://www.google.com/...	The World-Famous Sunset Blvd	It was a scorcher this day!	3
4	Philly	2019-03-28	NULL	https://www.google.com/...	Wasahickon Park, Philly	The largest contiguous city park in the entire country...	4
5	NYC	0000-00-00	NULL	https://www.google.com/...	Central Park	Did you know that Central Park was once a landfill? C...	5
6	Minneapolis	2012-03-20	NULL	https://www.google.com/...	Guess the NY Borough!	The skytrees are a convenient way to get around in a...	6
7	NULL	NULL	NULL	https://www.google.com/...	Winner gets my unending praise!	Winner gets my unending praise!	7
8	London UK	2018-07-10	NULL	https://www.google.com/...	Picadilly Circus, London	Don't miss the fish and chips here	8
9	Moscow, RU	NULL	NULL	https://www.google.com/...	The Prettiest Metro in the World!	Originally envisioned by Soviet urban planners as a c...	9
10	NULL	NULL	NULL	NULL	NULL	NULL	10

photo 1

Apply Revert

Action Output

Time	Action	Response	Duration / Fetch Time
29	20:57:20 SELECT * FROM user_role LIMIT 0, 1000	7 row(s) returned	0.019 sec / 0.000012...
30	20:59:32 SELECT * FROM web_user LIMIT 0, 1000	7 row(s) returned	0.020 sec / 0.000023...
31	21:17:39 SELECT * FROM photo LIMIT 0, 1000	0 row(s) returned	0.022 sec / 0.000023...

Added new script editor

## PHOTO JOINED WITH WEB\_USER (ALL ROWS):

Administration Schemas user\_role - Table user\_role web\_user - Table photo - Table Query 1 SQL File 5\* SQL File 6\*

SCHEMAS

sp21

sp21\_1056\_tuf97182

sp21\_1056\_tuf66970

sp21\_1056\_tuf74434

sp21\_1056\_tuf57388

sp21\_3308\_tuf20928

sp21\_3308\_tuf50719

sp21\_3308\_tuf58324

sp21\_3308\_tuf93296

Tables

photo

user\_role

web\_user

Views

Stored Procedures

Functions

sp21\_3308\_tuf00581

Showing loaded schemas only

Object Info Session

Table: user\_role

1 SELECT title, user\_email

2 FROM web\_user, photo

3 where photo.web\_user\_id = web\_user.web\_user\_id;

100% 25:1

Result Grid

title	user_email
Wasahickon Park, Philly	carol@hotmail.com
Philadelphia City Hall	erk@gmail.com
NULL	jackie@yahoo.com
Picadilly Circus, London	kim@temple.edu
Tokyo Skytree	rachel@gmail.com
Guess the NY Borough!	richard@temple.edu
The Prettiest Metro in the World!	roman@99pi.org
The World-Famous Sunset Blvd	sam@temple.edu
NULL	susanna@yahoo.com
Central Park	tom@gmail.com

Result 4

Read Only

Action Output

Time	Action	Response	Duration / Fetch Time
40	21:51:42 SELECT user_email, title FROM web_user, photo where photo.web_user_id = web_user.web_user_id LIMIT 0, 1000	10 row(s) returned	0.019 sec / 0.000013...
41	21:52:27 SELECT user_email, title FROM web_user, photo where photo.web_user_id = web_user.web_user_id ORDER BY col2, col1 L...	Error Code: 1054. Unknown column 'col2' in 'order cla...	0.019 sec
42	21:52:39 SELECT title, user_email FROM web_user, photo where photo.web_user_id = web_user.web_user_id LIMIT 0, 1000	10 row(s) returned	0.088 sec / 0.00009...

## PHOTO JOINED WITH WEB\_USER (FEW ROWS):

The screenshot shows the MySQL Workbench interface. The left sidebar displays the 'SCHEMAS' tree with a search for 'sp21'. The 'Tables' section is expanded, showing 'photo', 'user\_role', 'web\_user', 'Views', 'Stored Procedures', and 'Functions'. The 'Object Info' tab is selected, showing 'Table: user\_role'. The main editor displays a SQL query:

```
1 SELECT title, user_email
2 FROM web_user, photo
3 WHERE photo.web_user_id = web_user.web_user_id and
4 photo.location = "NYC";
```

The 'Result Grid' is empty. The 'Action Output' tab at the bottom shows the execution log:

Time	Action	Response	Duration / Fetch Time
21:52:39	SELECT title, user_email FROM web_user, photo where photo.web_user_id = web_user.web_user_id LIMIT 0, 1000	10 row(s) returned	0.088 sec / 0.00009...
21:53:59	SELECT title, user_email FROM web_user, photo WHERE photo.web_user_id = web_user.web_user_id and WHERE photo.lo...	Error Code: 1064. You have an error in your SQL synta...	0.019 sec
21:54:26	SELECT title, user_email FROM web_user, photo WHERE photo.web_user_id = web_user.web_user_id and photo.location =...	2 row(s) returned	0.019 sec / 0.000034...