

EVERY SECTION LABELED BLUE WAS ADDED



























1. STUDENT NAME

Gino Russo

2. URL to STUDENT WEB SITE

https://cis-linux2.temple.edu/tomcat10/sp25_3308_tuo45914/index.html

3. user_role TABLE DESIGN

Column	Datatype	PK	NN	UQ	B...	UN	ZF	AI	G	Default / Expression
 user_role_id	INT(11)									
 user_role_type	VARCHAR(45)									
<click to edit>										

4. web_user TABLE DESIGN and FOREIGN KEY

Name: web_user Schema: sp25_3308_tuo45914											
Column	Datatype	PK	NN	UQ	B...	UN	ZF	AI	G	Default / Expression	
web_user_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"/>		
user_email	VARCHAR(45)	<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"/>		
user_password	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	
user_image	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	
membership_...	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	
birthday	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	
user_role_id	VARCHAR(45)	<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>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

Name:

Schema: sp25_3308_tuo45914

Foreign Key

Referenced Table

web_user_role

`sp25_3308_t...`

<click to edit>

Foreign key details 'web_user_role'

Column

Referenced Column

☐ web_user_id

☐ user_email

☐ user_password

☐ user_image

☐ membership_fee

☐ birthday

☒ user_role_id

user_role_id

On Update: RESTRICT

On Delete: RESTRICT

Comment:

☐ Skip on SQL generation

Columns

Indexes

Foreign Keys

Triggers

Partitioning

>>

Apply

Revert

5. "OTHER" TABLE DESIGN and FOREIGN KEY

[illegible]

Name:
Schema: sp25_3308_tuo45914

Foreign Key

games_ibfk_1

<click to edit>

Refere...

`sp2...

Foreign key details 'games_ibfk_1'

Column	Referenced Column
<input type="checkbox"/> game_id	
<input type="checkbox"/> game_title	
<input type="checkbox"/> image_url	
<input type="checkbox"/> rating	
<input type="checkbox"/> review	
<input checked="" type="checkbox"/> web_user_id	web_user_id
<input type="checkbox"/> added_to_backlog	

On Update: RESTRICT
On Delete: RESTRICT
Comment:

☐ Skip on SQL generation

Columns

Indexes

Foreign Keys

Triggers

Partitioning

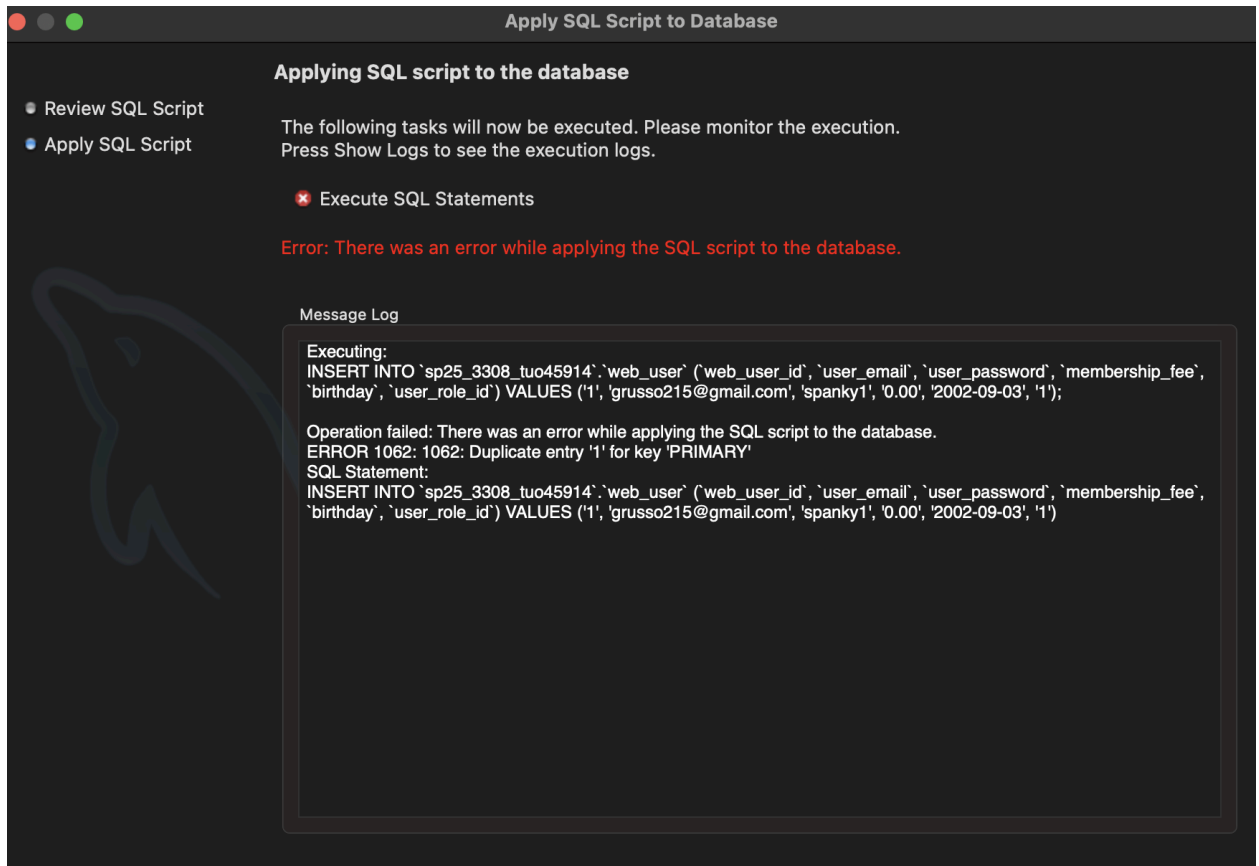
>>

Apply

Revert

6. DATA ENTRY ERRORS

a) Error: Duplicate user_role PK



b) Error: Invalid user_role FK in web_user record

✖ Execute SQL Statements

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

Message Log

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

Executing:

```
UPDATE `sp25_3308_tuo45914`.`web_user` SET `user_role_id` = '4' WHERE (`web_user_id` = '17');
```

ERROR 1452: 1452: Cannot add or update a child row: a foreign key constraint fails
(`sp25_3308_tuo45914`.`web_user`, CONSTRAINT `web_user_role` FOREIGN KEY (`user_role_id`) REFERENCES
`user_role` (`user_role_id`))

SQL Statement:

```
UPDATE `sp25_3308_tuo45914`.`web_user` SET `user_role_id` = '4' WHERE (`web_user_id` = '17')
```

c) Error: Cannot delete a user_role record that's referenced by a web_user record

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

Message Log

```
Executing:
DELETE FROM `sp25_3308_tuo45914`.`user_role` WHERE (`user_role_id` = '3');

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
(`sp25_3308_tuo45914`.`web_user`, CONSTRAINT `web_user_role` FOREIGN KEY (`user_role_id`) REFERENCES
`user_role` (`user_role_id`))
SQL Statement:
DELETE FROM `sp25_3308_tuo45914`.`user_role` WHERE (`user_role_id` = '3')
```

d) Invalid web_user FK in "other" record

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

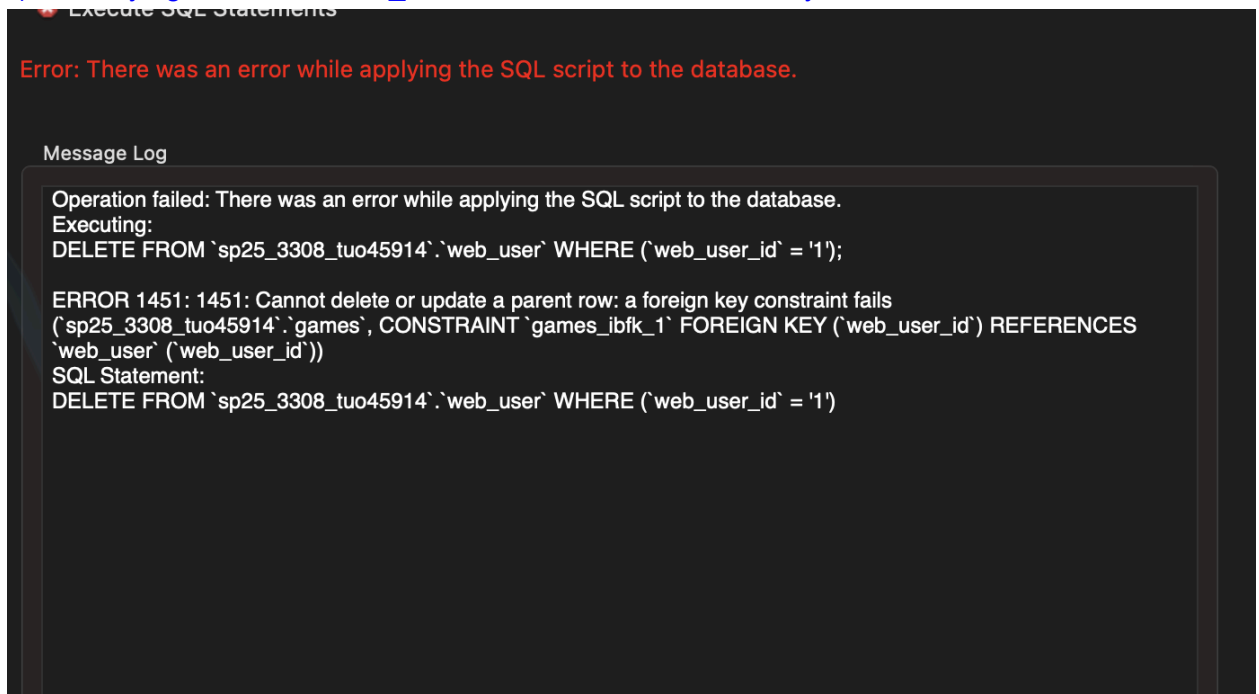
Error: There was an error while applying the SQL script to the database.

Message Log

```
Operation failed: There was an error while applying the SQL script to the database.
Executing:
INSERT INTO `sp25_3308_tuo45914`.`games` (`game_title`, `web_user_id`) VALUES ('Life is Strange', '20');

ERROR 1452: 1452: Cannot add or update a child row: a foreign key constraint fails (`sp25_3308_tuo45914`.`games`,
CONSTRAINT `games_ibfk_1` FOREIGN KEY (`web_user_id`) REFERENCES `web_user` (`web_user_id`))
SQL Statement:
INSERT INTO `sp25_3308_tuo45914`.`games` (`game_title`, `web_user_id`) VALUES ('Life is Strange', '20')
```

e) Error trying to delete a web_user record that's referenced by an "other" record



The screenshot shows a dark-themed interface with a red error icon and text at the top. Below it is a 'Message Log' panel containing a detailed error message. The error message states that an operation failed due to a foreign key constraint failure. It specifies the SQL statement being executed was a DELETE from a table named 'web_user' in a schema named 'sp25_3308_tuo45914', where 'web_user_id' equals '1'. The error code is 1451, and the message explains that a parent row cannot be deleted because a foreign key constraint fails. The foreign key is named 'games_ibfk_1' and references the 'web_user' table's 'web_user_id' column. The schema for the 'games' table is 'sp25_3308_tuo45914'.

```
Execute SQL Statements

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

Message Log

Operation failed: There was an error while applying the SQL script to the database.
Executing:
DELETE FROM `sp25_3308_tuo45914`.`web_user` WHERE (`web_user_id` = '1');

ERROR 1451: 1451: Cannot delete or update a parent row: a foreign key constraint fails
(`sp25_3308_tuo45914`.`games`, CONSTRAINT `games_ibfk_1` FOREIGN KEY (`web_user_id`) REFERENCES
`web_user` (`web_user_id`))
SQL Statement:
DELETE FROM `sp25_3308_tuo45914`.`web_user` WHERE (`web_user_id` = '1')
```

7. SELECT STATEMENTS

a) USER_ROLE: all rows, all columns, sorted by user_role_id.


```
1 SELECT *
2 FROM user_role
3 ORDER BY user_role_id;
4
```



100% 23:3

Result Grid   **Filter Rows:** **Edit:** 



Filter Rows:




Edit:

[illegible]

b) WEB_USER: all rows, all columns, sorted by web_user_id.

```
1 SELECT *
2 FROM web_user
3 ORDER BY web_user_id;
4
```


100%  14:2



Search

Edit:

[illegible]

^
v

		Time	Action	Response
✖	97	18:52:49	INSERT INTO `sp...	1364: Field 'user_role_type' doesn't have a default value
✔	98	18:53:31	SELECT * FROM...	3 row(s) returned
✖	99	18:53:41	DELETE FROM `s...	1451: Cannot delete or update a parent row: a foreign key constrai

c) WEB_USER JOINED WITH USER_ROLE: all rows, certain columns, sorted.

100% 20:4



🔍 Search



Action Output

00%

Result Grid



Filter Rows:



Export:

[illegible]

f) "OTHER": all rows, all columns, sorted by the id of your "other" table.

The screenshot shows a database management interface. At the top, a SQL query is entered in a text area:

```
1 SELECT *
2 FROM games
3 ORDER BY game_id;
```

Below the query editor, there is a toolbar with options like "Result Grid", "Filter Rows", "Search", "Edit", and "Export/Import". The "Result Grid" is active, displaying a table of game data:

game_id	game_title	image_url	rating	review
29	The Witcher 3: Wild Hunt	https://media.rawg.io/media/games/618/618c20...	5	This game has the best s
30	Grand Theft Auto V	https://media.rawg.io/media/games/20a/20aa03...	4	They call this the greatest
31	Portal 2	https://media.rawg.io/media/games/2ba/2bac0e...	3	It was okay.
32	Counter-Strike: Global Offensive	https://media.rawg.io/media/games/736/73619b...	2	NULL
33	Left 4 Dead 2	https://media.rawg.io/media/games/d58/d58894...	3	NULL
34	The Elder Scrolls V: Skyrim	https://media.rawg.io/media/games/7cf/7cfc922...	5	NULL
35	Red Dead Redemption 2	https://media.rawg.io/media/games/511/5118aff...	5	NULL
36	God of War (2018)	NULL		NULL
37	BioShock Infinite	https://media.rawg.io/media/games/fc1/fc1307a...	3	NULL
38	Borderlands 2	https://media.rawg.io/media/games/49c/49c3dfa...	3.5	NULL
NULL	NULL	NULL	NULL	NULL

Below the table, there are buttons for "Apply" and "Revert". At the bottom, the "Action Output" section shows a log of database actions:

	Time	Response	Duration / Fetch Time
30	18:02:12	A No changes detected	
31	18:07:05	IN 1452: Cannot add or update a child row: a foreign key constraint fails (`sp25_33...	
32	18:08:19	S 5 row(s) returned	0.110 sec / 0.000027...
33	18:08:45	D 1451: Cannot delete or update a parent row: a foreign key constraint fails (`sp25...	
34	18:10:20	S 10 row(s) returned	0.028 sec / 0.000021...

g) "OTHER" JOINED WITH WEB_USER all rows, certain columns, sorted.

```
1 SELECT games.game_title, web_user.user_email
2 FROM games
3 JOIN web_user
4 ON games.web_user_id = web_user.web_user_id
5 ORDER BY games.game_title, web_user.user_email;
6
```

100% 48:5

Result Grid Filter Rows: Search Export:

game_title	user_email
BioShock Infinite	grusso215@gmail.com
Borderlands 2	grusso215@gmail.com
Counter-Strike: Global Offensive	grusso215@gmail.com
God of War (2018)	grusso215@gmail.com
Grand Theft Auto V	grusso215@gmail.com
Left 4 Dead 2	grusso215@gmail.com
Portal 2	grusso215@gmail.com
Red Dead Redemption 2	grusso215@gmail.com
The Elder Scrolls V: Skyrim	grusso215@gmail.com
The Witcher 3: Wild Hunt	grusso215@gmail.com

Result 8 Read Only

Action Output

	Time	Response	Duration / Fetch Time
46	19:34:04	S 10 row(s) returned	0.028 sec / 0.000016...
47	19:35:21	S 10 row(s) returned	0.053 sec / 0.000019...

h) "OTHER" JOINED WITH WEB_USER some rows, certain columns, sorted.


```
1 • SELECT games.game_title AS Title, web_user.user_email AS Email
2 FROM games
3 JOIN web_user
4 ON games.web_user_id = web_user.web_user_id
5 WHERE games.game_title LIKE 'The%' /*only show game titles that start with "The" */
6 ORDER BY games.game_title, web_user.user_email;
7
```

100%

1:7

Result Grid



Filter Rows:



Search

Export:



Result Grid



Form Editor



Title	Email
The Elder Scrolls V: Skyrim	grusso215@gmail.com
The Witcher 3: Wild Hunt	grusso215@gmail.com

Result 18



Read Only

Action Output



	Time	Response	Duration / Fetch Time
✖ 58	19:43:41	S Error Code: 1064. You have an error in your SQL syntax; check the manual that...	0.027 sec
✔ 59	19:44:04	S 2 row(s) returned	0.027 sec / 0.000009...