

- ### 3. user\_role TABLE DESIGN

#### 4. web\_user TABLE DESIGN and FOREIGN KEY

#### 4. web\_user TABLE DESIGN and FOREIGN KEY

Query 1  books-Table  web\_user-Table  user\_role-Table 

Query 1  books-Table  web\_user-Table  user\_role-Table 

- ## 5. “OTHER” TABLE DESIGN and FOREIGN KEY

Query 1  web\_user  book-Table 

Query 1 books - Table web\_user - Table user\_role - Table

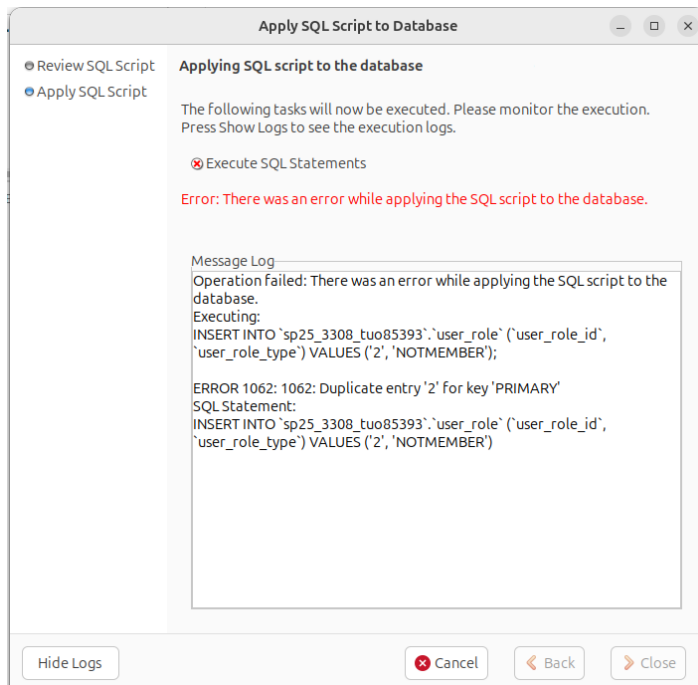
Name:  Schema:

Foreign Key Name	Referenced Table	Foreign Key Columns																		
<u>book_web_user</u>	`sp25_3308_tuo85393`.`web_user`	<table border="1"> <thead> <tr> <th>Column</th> <th>Referenced Column</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/> book-id</td> <td></td> </tr> <tr> <td><input type="checkbox"/> book_name</td> <td></td> </tr> <tr> <td><input type="checkbox"/> book_cover</td> <td></td> </tr> <tr> <td><input checked="" type="checkbox"/> web_user_id</td> <td>web_user_id</td> </tr> <tr> <td><input type="checkbox"/> book_published</td> <td></td> </tr> <tr> <td><input type="checkbox"/> reader_rate</td> <td></td> </tr> <tr> <td><input type="checkbox"/> reader_have_read</td> <td></td> </tr> <tr> <td><input type="checkbox"/> book_author</td> <td></td> </tr> </tbody> </table>	Column	Referenced Column	<input type="checkbox"/> book-id		<input type="checkbox"/> book_name		<input type="checkbox"/> book_cover		<input checked="" type="checkbox"/> web_user_id	web_user_id	<input type="checkbox"/> book_published		<input type="checkbox"/> reader_rate		<input type="checkbox"/> reader_have_read		<input type="checkbox"/> book_author	
Column	Referenced Column																			
<input type="checkbox"/> book-id																				
<input type="checkbox"/> book_name																				
<input type="checkbox"/> book_cover																				
<input checked="" type="checkbox"/> web_user_id	web_user_id																			
<input type="checkbox"/> book_published																				
<input type="checkbox"/> reader_rate																				
<input type="checkbox"/> reader_have_read																				
<input type="checkbox"/> book_author																				

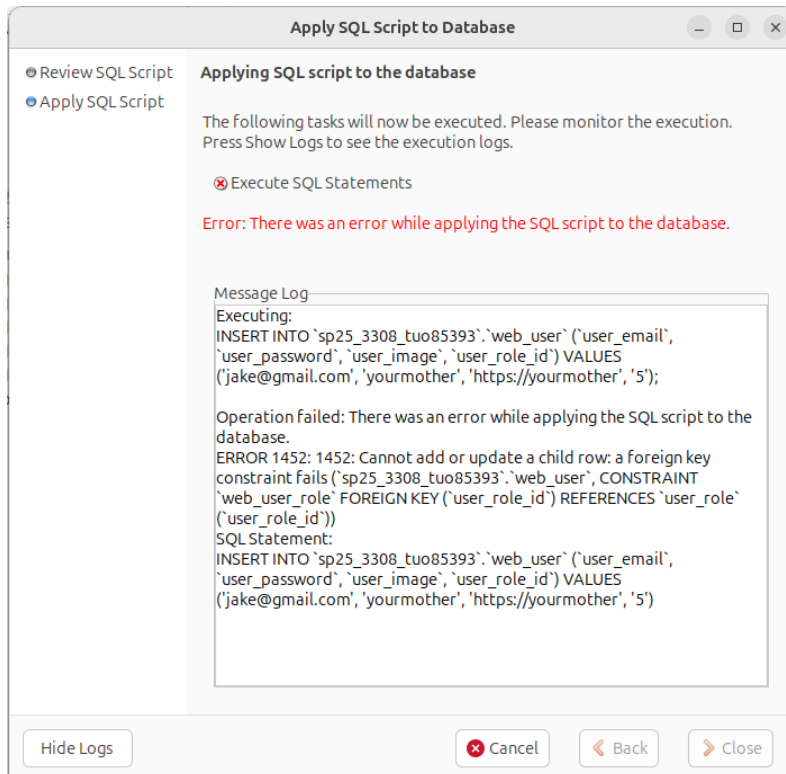
web\_user

## 6. DATA ENTRY ERRORS

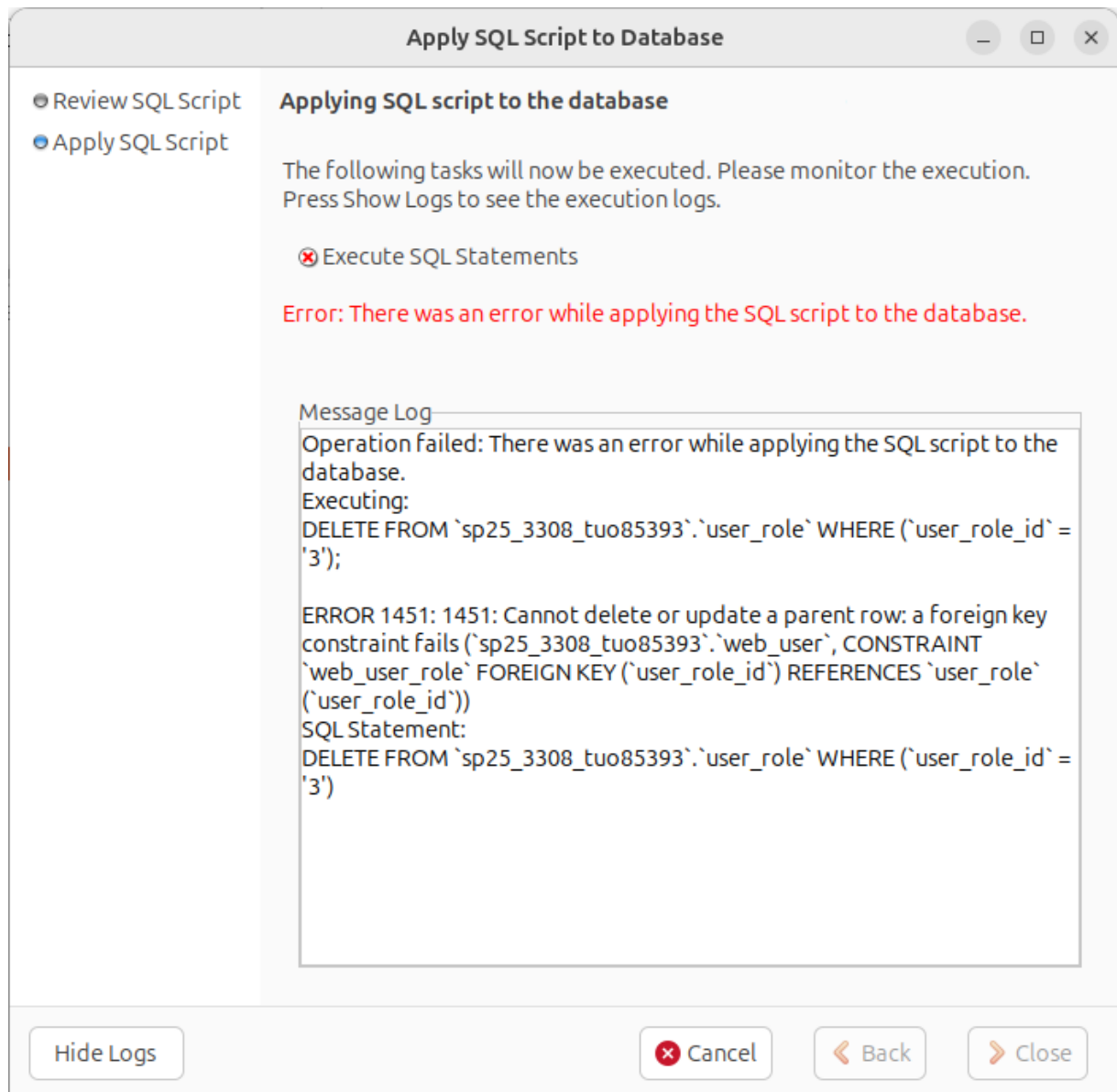
a) Error: Duplicate user\_role PK



## b) Error: Invalid user\_role FK in web\_user record



## c) Error: Cannot delete a user\_role record that's referenced by a web\_user record



d) Invalid web\_user FK in "other" record

## Apply SQL Script to Database

● Review SQL Script

● Apply SQL Script

### 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 `sp25_3308_tuo85393`.`books` (`book_name`,  
`web_user_id`, `book_published`, `reader_have_read`, `book_author`,  
`book_review_id`) VALUES ('mother', '4', NULL, '0', 'Y. Mom', '17');
```

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

ERROR 1452: 1452: Cannot add or update a child row: a foreign key constraint fails (`sp25\_3308\_tuo85393`.`books`, CONSTRAINT `book\_web\_user` FOREIGN KEY (`web\_user\_id`) REFERENCES `web\_user` (`web\_user\_id`))

SQL Statement:

```
INSERT INTO `sp25_3308_tuo85393`.`books` (`book_name`,  
`web_user_id`, `book_published`, `reader_have_read`, `book_author`,  
`book_review_id`) VALUES ('mother', '4', NULL, '0', 'Y. Mom', '17')
```

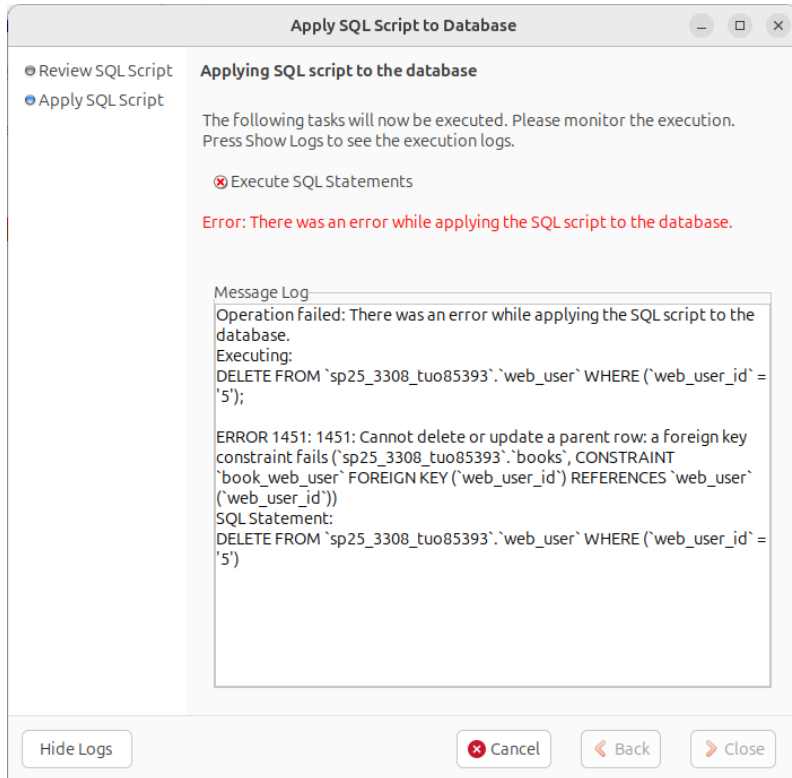
Hide Logs

✖ Cancel

⏪ Back

➤ Close

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



## 7. SELECT STATEMENTS

a) USER\_ROLE: all rows, all columns, sorted by user\_role\_id.

Query 1 ✕ web\_user ✕ book - Table ✕

Limit to 1000 rows

1 • **SELECT \* FROM user\_role ORDER BY user\_role\_id;**

---

**Result Grid** Filter Rows:

#	user_role_id	user_role_type
1	1	ADMIN
2	2	MEMBER
3	3	VIEW
*	NULL	NULL

---

user\_role 5 ✕

Action Output ▼

#	Time	Action	Message	Duration / Fetch
✓ 1	22:12:50	Apply changes to book	Changes applied	
✗ 2	22:13:13	Apply changes to book	Error 1064: You have an error in your SQL syntax; ... SQL Statement: ALTER TABLE `sp25_3308_tuo85393`.`book` ALTE...	
✓ 3	22:17:16	SELECT * FROM user_role LIMIT 0, 1000	3 row(s) returned	0.027 sec / 0.00001...
✓ 4	22:17:52	SELECT * FROM user_role ORDER BY user_role_id LIMIT 0,...	3 row(s) returned	0.020 sec / 0.00000...
✓ 5	22:17:58	SELECT * FROM user_role ORDER BY user_role_id LIMIT 0,...	3 row(s) returned	0.019 sec / 0.00002...
✓ 6	22:19:36	SELECT * FROM web_user ORDER BY web_user_id LIMIT 0,...	5 row(s) returned	0.021 sec / 0.00002...
✓ 7	22:21:31	SELECT * FROM user_role ORDER BY user_role_id LIMIT 0,...	3 row(s) returned	0.020 sec / 0.00000...

b) WEB\_USER: all rows, all columns, sorted by web\_user\_id.

Query 1 ✕ web\_user ✕ book - Table ✕

Limit to 1000 rows

1 • **SELECT \* FROM web\_user ORDER BY web\_user\_id;**

---

**Result Grid** Filter Rows:

#	web_user_id	user_email	user_password	user_image	membership_fee	birthday	user_role_id
1	1	rafa@gmail.com	sillyme	https://sill...	NULL	NULL	1
2	2	rafaela@gmail.com	sillyyou	https://sill...	5.00	2001-04-26	2
3	3	manny@yahoo.com	sillyus	https://sill...	3.00	2001-04-27	2
4	5	eric@mailfence.com	sillyyouall	https://sill...	3.00	2001-04-28	2
5	6	kayley@hotmail.com	sillynoone	https://sill...	NULL	NULL	3
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL

---

web\_user 4 ✕

Action Output ▼

#	Time	Action	Message	Duration / Fetch
✓ 1	22:12:50	Apply changes to book	Changes applied	
✗ 2	22:13:13	Apply changes to book	Error 1064: You have an error in your SQL syntax; ... SQL Statement: ALTER TABLE `sp25_3308_tuo85393`.`book` ALTE...	
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✓ 6	22:19:36	SELECT * FROM web_user ORDER BY web_user_id LIMIT 0,...	5 row(s) returned	0.021 sec / 0.00002...

c) WEB\_USER JOINED WITH USER\_ROLE: all rows, certain columns, sorted.

Query 1 web\_user book-Table

Limit to 1000 rows

```

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
4 ORDER BY user_role_type, user_email

```

#	user_role_type	user_email
1	ADMIN	rafa@gmail.com
2	MEMBER	eric@mailfence.com
3	MEMBER	manny@yahoo.com
4	MEMBER	rafaela@gmail.com
5	VIEW	kayley@hotmail.com

Result 6

Action Output

#	Time	Action	Message
1	22:12:50	Apply changes to book	Changes applied
2	22:13:13	Apply changes to book	Error 1064: You have an error in your SQL syntax; ... SQL Statement: ALTER TABLE `sp25_3308_tuo85393`.`book` ALTE...
3	22:17:16	SELECT * FROM user_role LIMIT 0, 1000	3 row(s) returned
4	22:17:52	SELECT * FROM user_role ORDER BY user_role_id LIMIT 0,...	3 row(s) returned
5	22:17:58	SELECT * FROM user_role ORDER BY user_role_id LIMIT 0,...	3 row(s) returned
6	22:19:36	SELECT * FROM web_user ORDER BY web_user_id LIMIT 0,...	5 row(s) returned
7	22:21:31	SELECT * FROM user_role ORDER BY user_role_id LIMIT 0,...	3 row(s) returned
8	22:23:47	SELECT user_role_type, user_email FROM web_user, user...	5 row(s) returned

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

Query 1 web\_user book-Table

Limit to 1000 rows

```

1 • SELECT * FROM book ORDER BY book_id

```

#	book_id	book_name	book_cover	web_user_id	book_published_date	reader_rate	reader_have_read	book_authors	book_review_id
1	1	The Outsider	https://theOutsider.jpeg	1	2020-02-20	0		S. King	
2	2	Light Bringer		1		0		P. Brown	
3	3	Iron Gold	https://IronGold.jpeg	2	2018-01-16	4	1	P. Brown	1
4	4	Red Rising	https://RedRising.jpeg	3	2014-01-28		0	P. Brown	
5	5	The Tortilla Curtain	https://TTC.jpeg	5	1995-09-17	3	1	T. C. Boyle	2
6	6	Dune	https://Dune.jpeg	6	1965-08-01	3	1	F. Herbert	3
7	7	Dune Messiah	https://d-m.jpeg	2	1969-01-01		0	F. Herbert	
8	8	The Infinite Machine	https://t-i-m.jpeg	3	2020-07-14	1	1	C. Russo	4
9	9	Critique of Judgment		5			0	I. Kant	
10	10	Legacy of Ashes: The History of th...	https://l-o-a.jpeg	6		5	1	T. Weiner	6

book 7

Action Output

#	Time	Action	Message	Duration / Fetch
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6	22:19:36	SELECT * FROM web_user ORDER BY web_user_id LIMIT 0,...	5 row(s) returned	0.021 sec / 0.00002...
7	22:21:31	SELECT * FROM user_role ORDER BY user_role_id LIMIT 0,...	3 row(s) returned	0.020 sec / 0.00000...
8	22:23:47	SELECT user_role_type, user_email FROM web_user, user...	5 row(s) returned	0.025 sec / 0.00001...
9	22:25:30	SELECT * FROM book ORDER BY book_id LIMIT 0, 1000	10 row(s) returned	0.025 sec / 0.00001...

g) “OTHER” JOINED WITH WEB\_USER all rows, certain columns, sorted.



Query 1
web\_user
book-Table

Limit to 1000 rows

```

1 • SELECT book_review_id, user_email
2 FROM book, web_user
3 WHERE book.web_user_id = web_user.web_user_id
4 ORDER BY book_review_id, user_email

```

Result Grid
Filter Rows:
Export:
Wrap Cell Content:

#	book_review_id	user_email
1		eric@mailfence.com
2		manny@yahoo.com
3		rafa@gmail.com
4		rafa@gmail.com
5		rafaela@gmail.com
6	1	rafaela@gmail.com
7	2	eric@mailfence.com
8	3	kayley@hotmail.com
9	4	manny@yahoo.com
10	6	kayley@hotmail.com

Result 8

Action Output

#	Time	Action	Message	Duration / Fetch
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✓ 7	22:21:31	SELECT * FROM user_role ORDER BY user_role_id LIMIT 0,...	3 row(s) returned	0.020 sec / 0.00000...
✓ 8	22:23:47	SELECT user_role_type, user_email FROM web_user, user...	5 row(s) returned	0.025 sec / 0.00001...

h) “OTHER” JOINED WITH WEB\_USER some rows, certain columns, sorted.

Query 1 web\_user book-Table

Limit to 1000 rows

```
1 • SELECT book_review_id, user_email
2 FROM book, web_user
3 WHERE book.web_user_id = web_user.web_user_id AND book.book_review_id > 2
4 ORDER BY book_review_id, user_email
```

Result Grid Filter Rows:  Export: Wrap Cell Content:

#	book_review_id	user_email
1	3	kayley@hotmail.com
2	4	manny@yahoo.com
3	6	kayley@hotmail.com

Result 9

Action Output

#	Time	Action	Message	Duration / Fetch
✓ 1	22:12:50	Apply changes to book	Changes applied	
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✓ 6	22:19:36	SELECT * FROM web_user ORDER BY web_user_id LIMIT 0...	5 row(s) returned	0.021 sec / 0.00002...
✓ 7	22:21:31	SELECT * FROM user_role ORDER BY user_role_id LIMIT 0,...	3 row(s) returned	0.020 sec / 0.00000...
✓ 8	22:23:47	SELECT user_role_type, user_email FROM web_user, user...	5 row(s) returned	0.025 sec / 0.00001...
✓ 9	22:25:30	SELECT * FROM book ORDER BY book_id LIMIT 0, 1000	10 row(s) returned	0.025 sec / 0.00001...
✓ 10	22:28:19	SELECT book_review_id, user_email FROM book, web_us...	10 row(s) returned	0.021 sec / 0.00001...
✓ 11	22:30:07	SELECT book_review_id, user_email FROM book, web_us...	3 row(s) returned	0.030 sec / 0.00001...