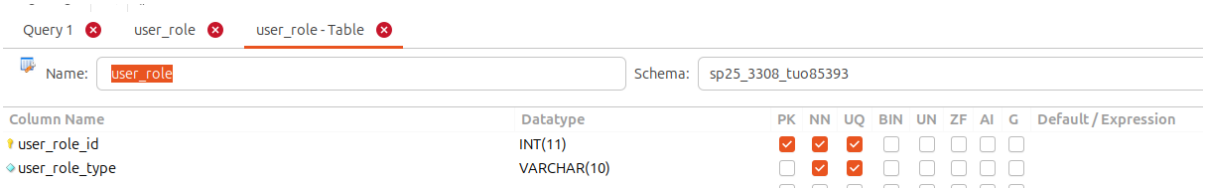
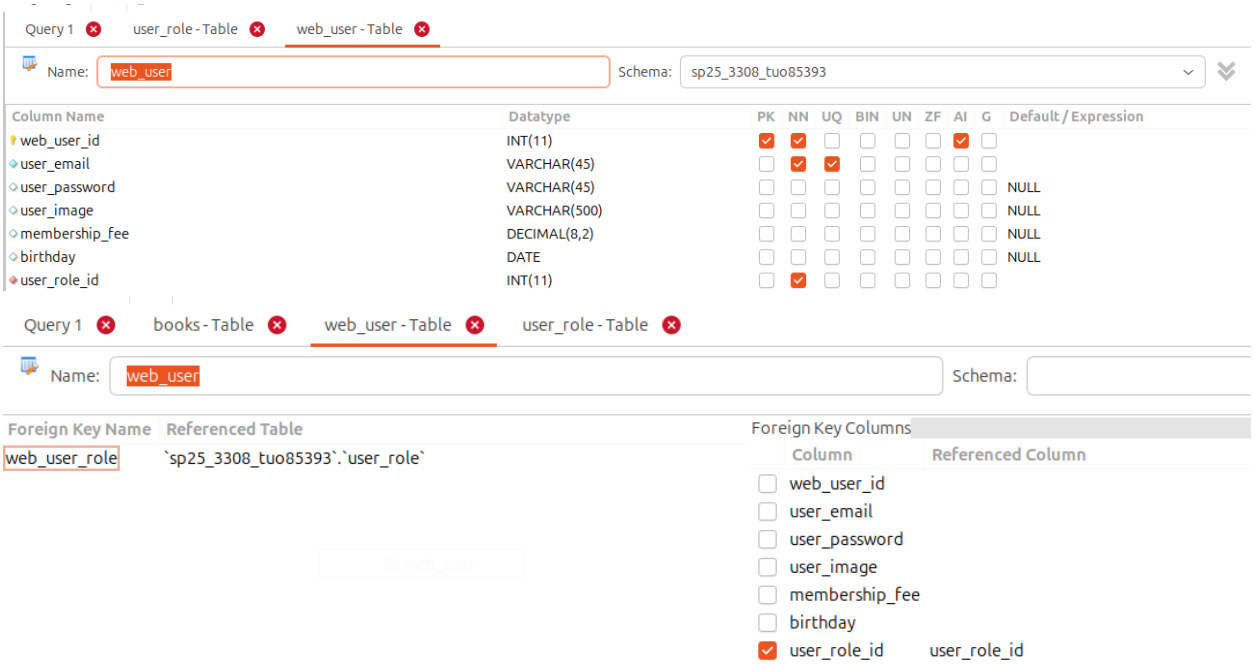
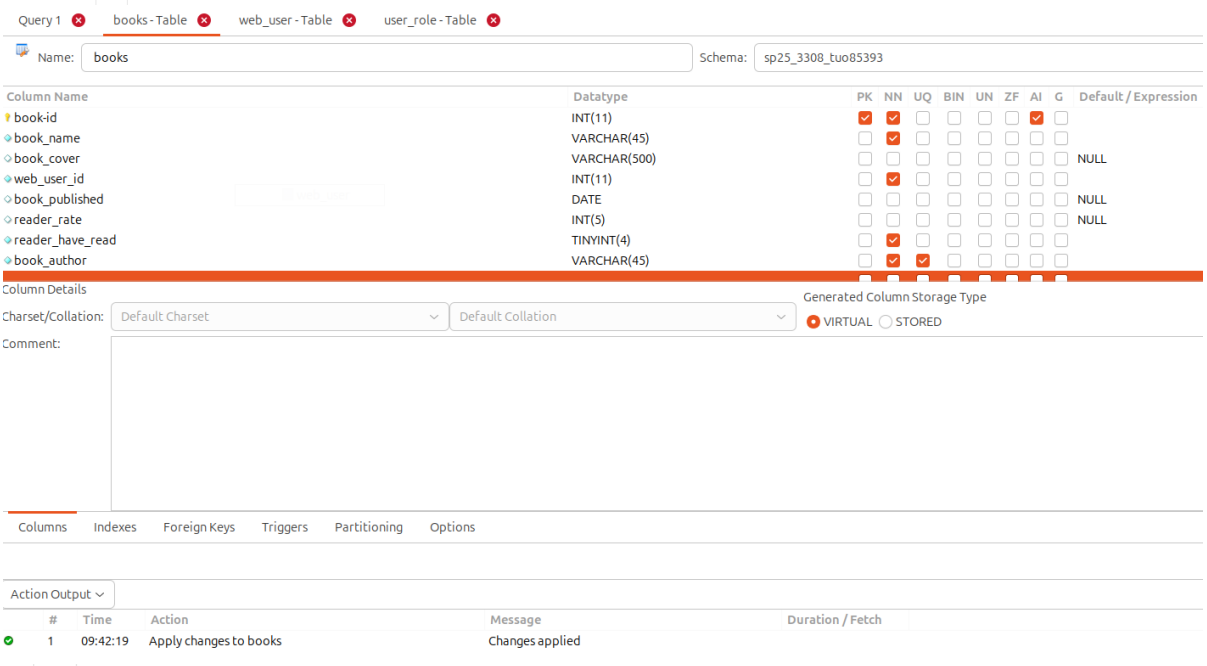
1. STUDENT NAME: RAFAEL RODRIGUEZ
2. URL to STUDENT WEB SITE: https://cis-linux2.temple.edu/tomcat10/sp25_3308_tuo85393/index.html
3. user_role TABLE DESIGN

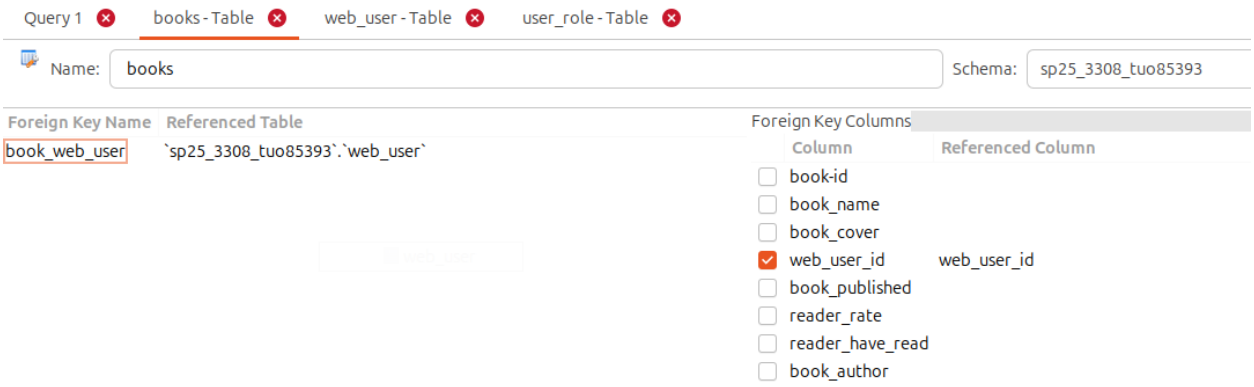


4. web_user TABLE DESIGN and FOREIGN KEY



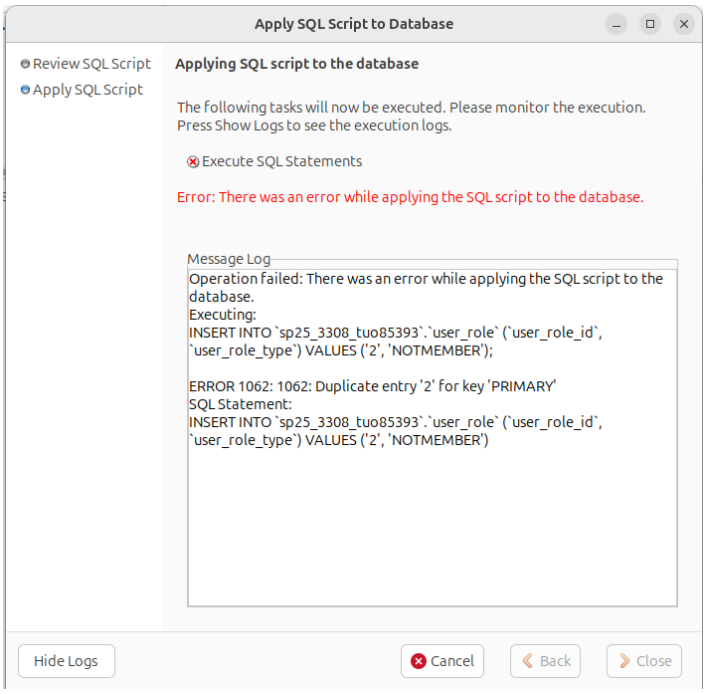
5. “OTHER” TABLE DESIGN and FOREIGN KEY



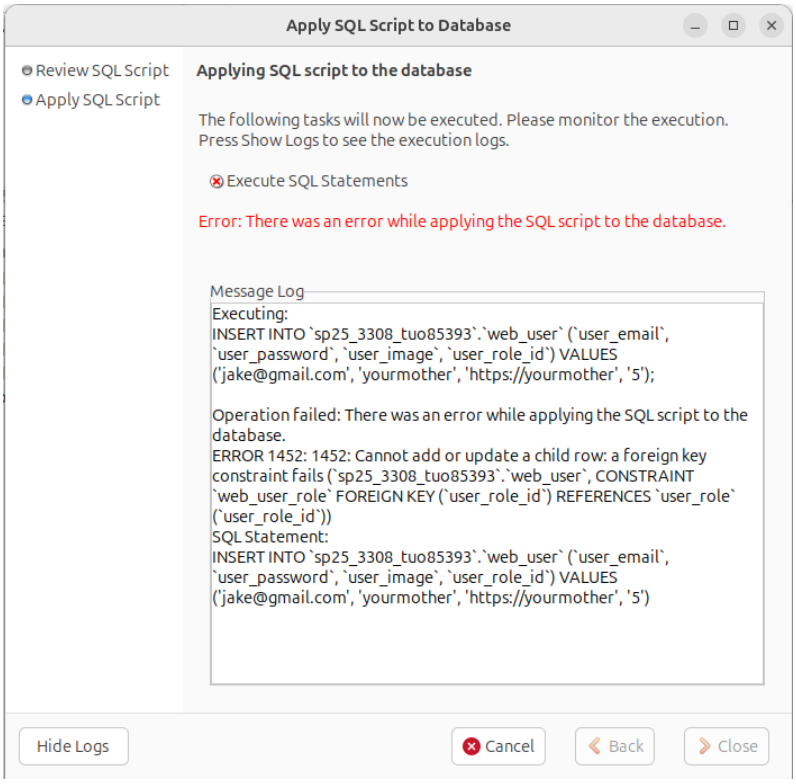


6. DATA ENTRY ERRORS

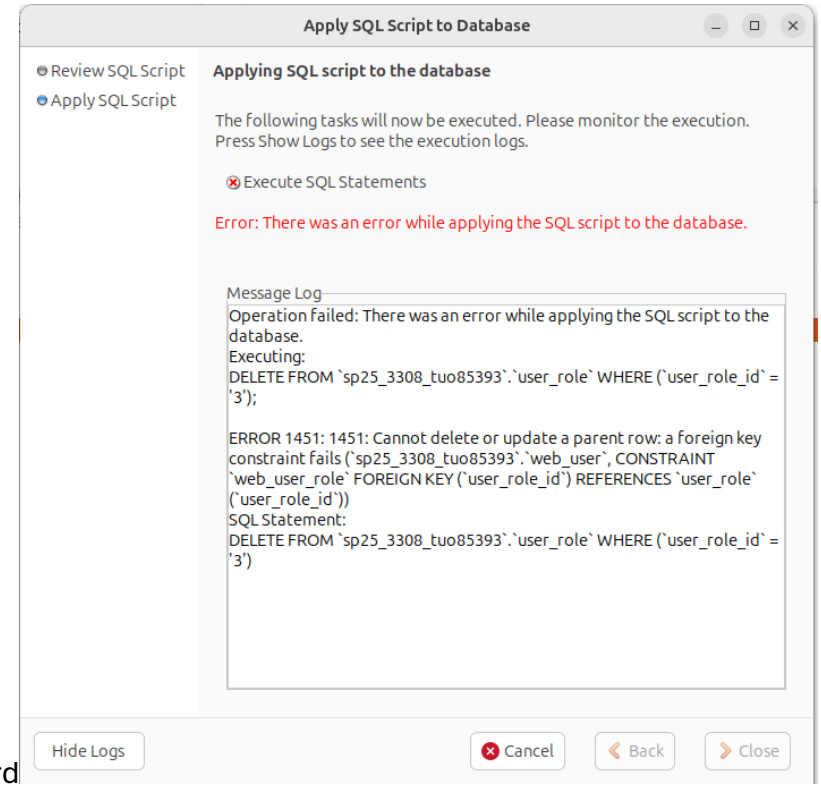
    a) Error: Duplicate user_role PK



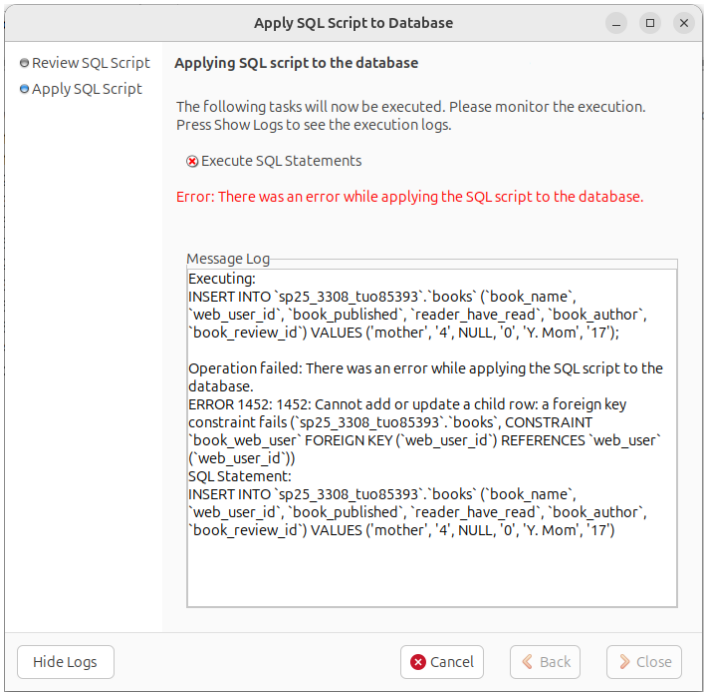
b) Error: Invalid user_role FK in web_user record

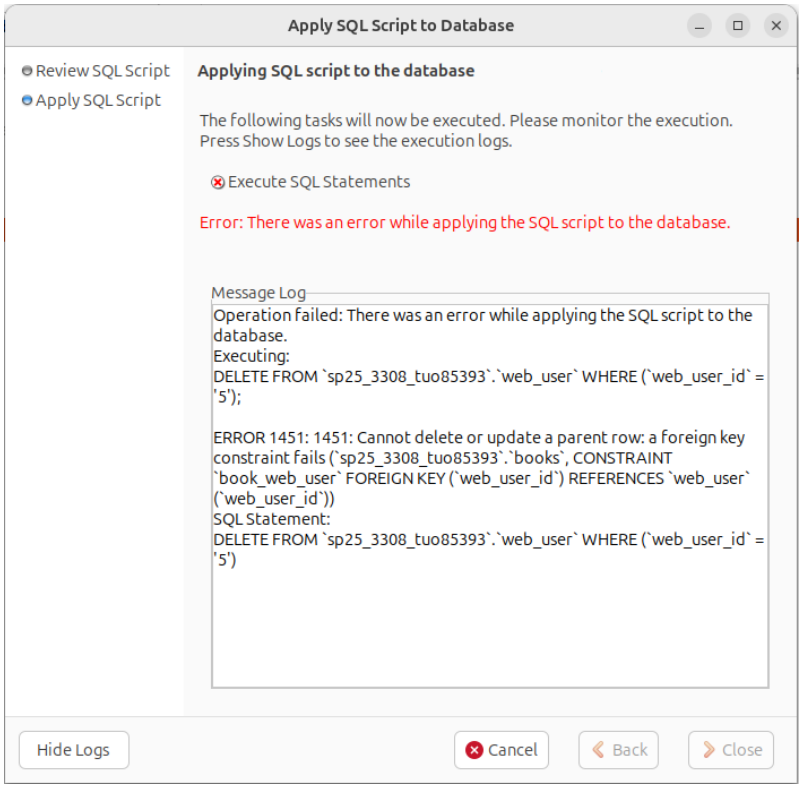


c) Error: Cannot delete a user_role record that's referenced by a web _user record

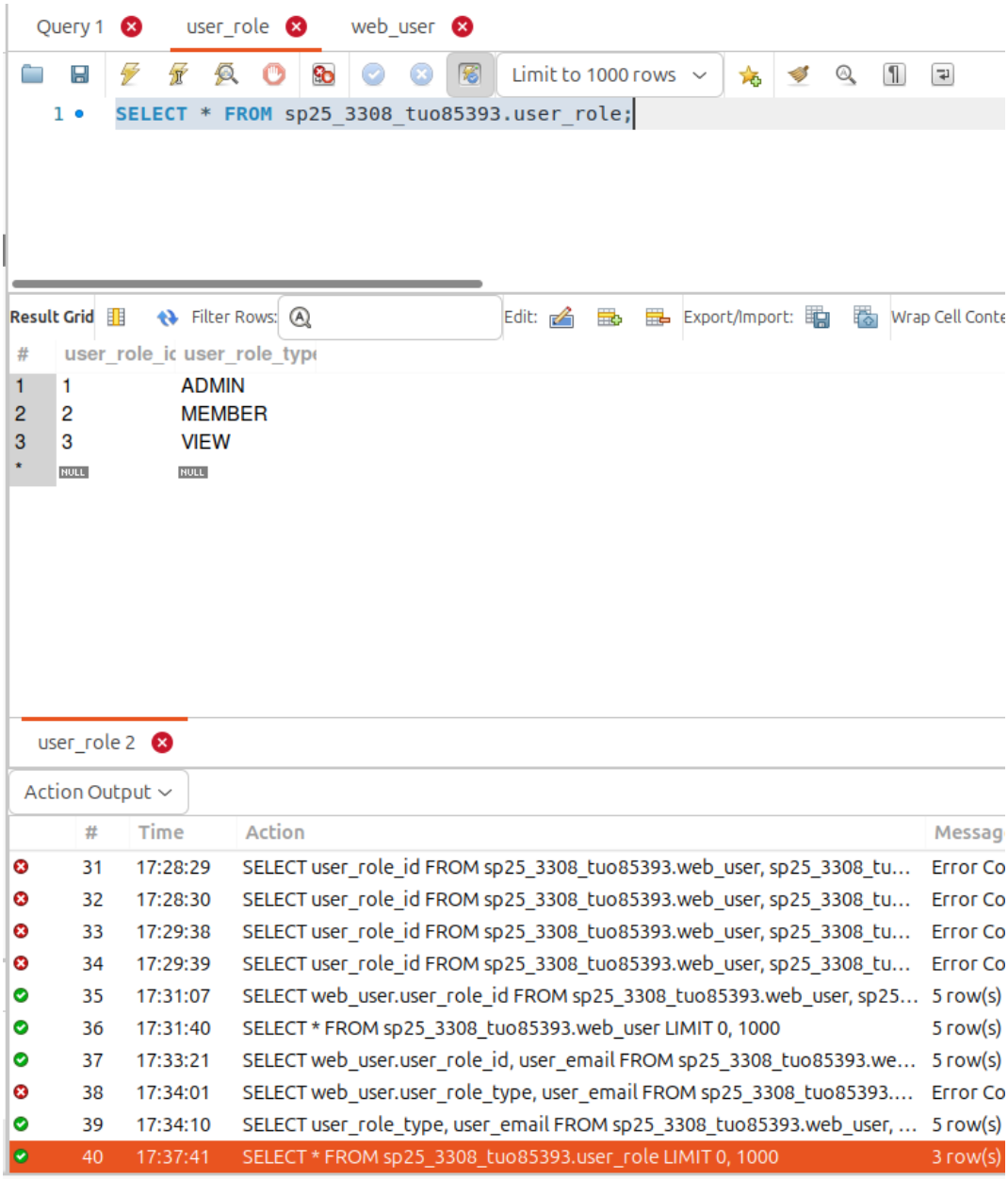


d) Invalid web_user FK in "other" record

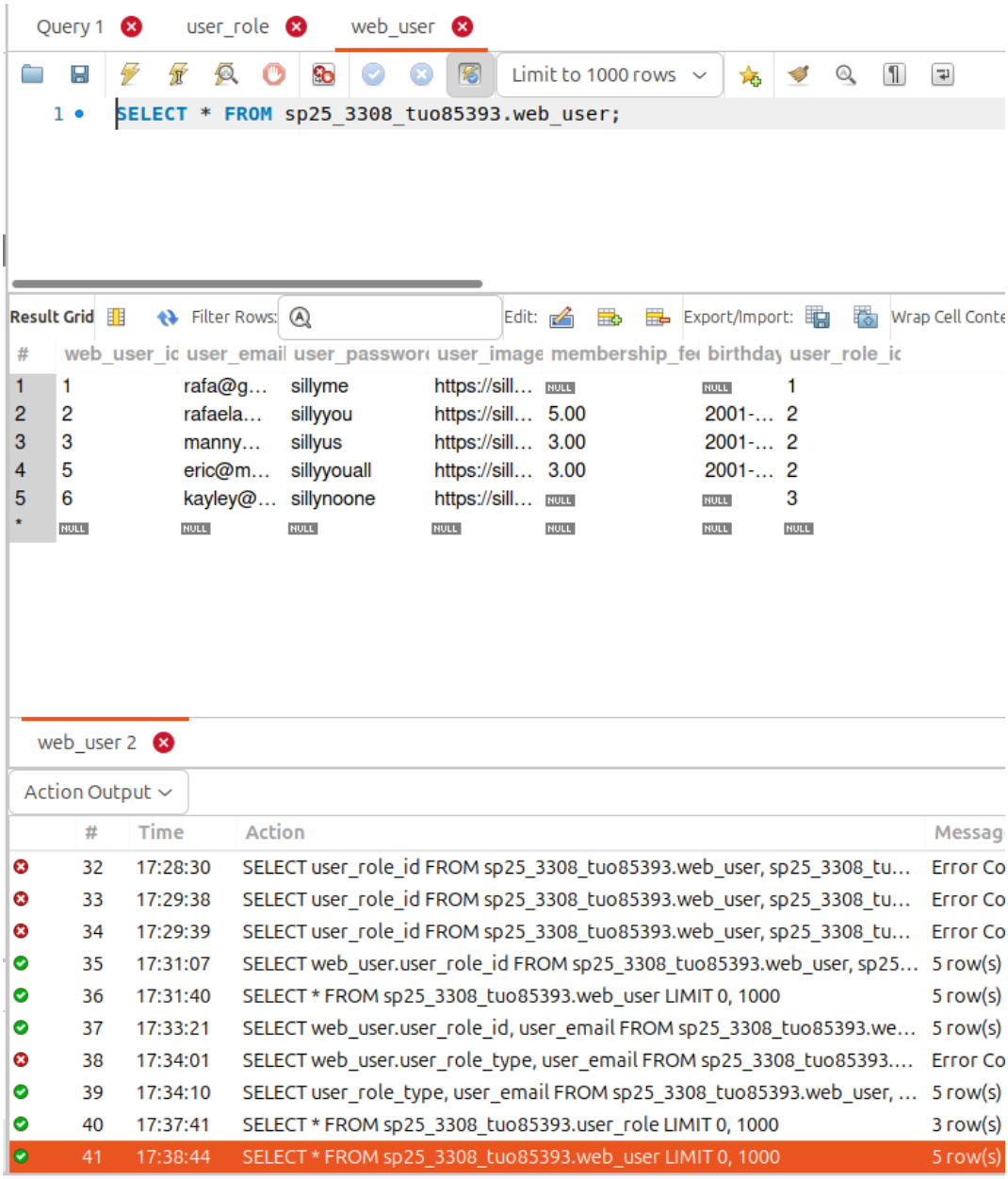


e) Error trying to delete a web_user record that's referenced by an "other" record 

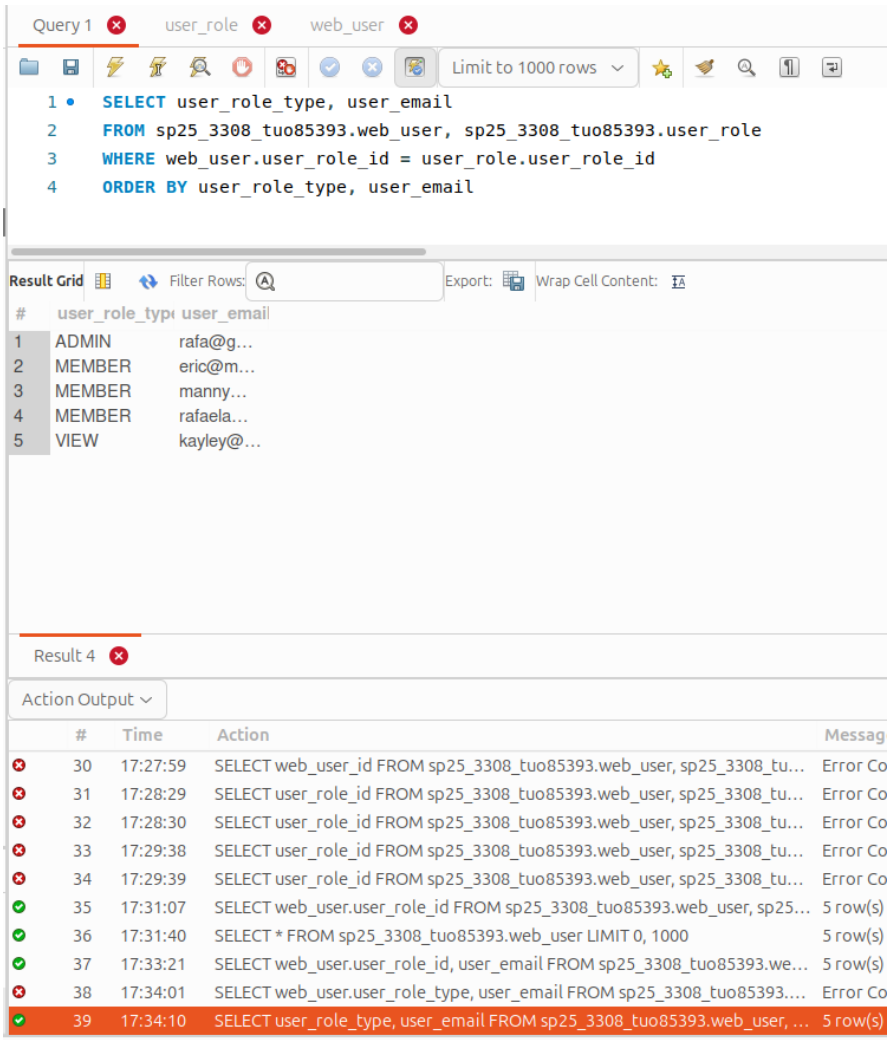
7. SELECT STATEMENTS
    a) USER_ROLE: all rows, all columns, sorted by user_role_id.



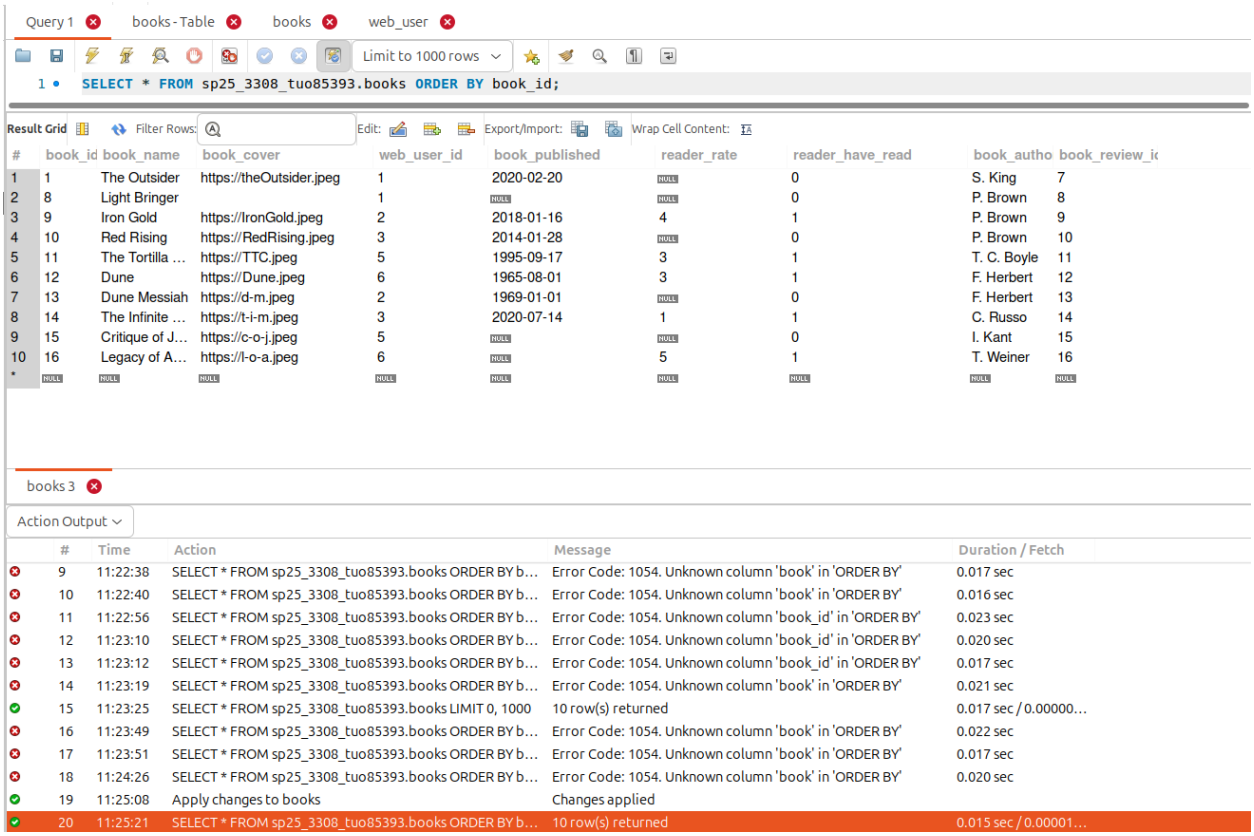
b) WEB_USER: all rows, all columns, sorted by web_user_id.



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



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



Query 1 | books - Table | books | web_user

Limit to 1000 rows

```
1 • SELECT * FROM sp25_3308_tuo85393.books ORDER BY book_id;
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

#	book_id	book_name	book_cover	web_user_id	book_published	reader_rate	reader_have_read	book_autho	book_review_id
1	1	The Outsider	https://theOutsider.jpeg	1	2020-02-20	NULL	0	S. King	7
2	8	Light Bringer		1	NULL	NULL	0	P. Brown	8
3	9	Iron Gold	https://IronGold.jpeg	2	2018-01-16	4	1	P. Brown	9
4	10	Red Rising	https://RedRising.jpeg	3	2014-01-28	NULL	0	P. Brown	10
5	11	The Tortilla …	https://TTC.jpeg	5	1995-09-17	3	1	T. C. Boyle	11
6	12	Dune	https://Dune.jpeg	6	1965-08-01	3	1	F. Herbert	12
7	13	Dune Messiah	https://d-m.jpeg	2	1969-01-01	NULL	0	F. Herbert	13
8	14	The Infinite …	https://t-i-m.jpeg	3	2020-07-14	1	1	C. Russo	14
9	15	Critique of J…	https://c-o-j.jpeg	5	NULL	NULL	0	I. Kant	15
10	16	Legacy of A…	https://l-o-a.jpeg	6	NULL	5	1	T. Weiner	16
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

books 3

Action Output

#	Time	Action	Message	Duration / Fetch
9	11:22:38	SELECT * FROM sp25_3308_tuo85393.books ORDER BY b…	Error Code: 1054. Unknown column 'book' in 'ORDER BY'	0.017 sec
10	11:22:40	SELECT * FROM sp25_3308_tuo85393.books ORDER BY b…	Error Code: 1054. Unknown column 'book' in 'ORDER BY'	0.016 sec
11	11:22:56	SELECT * FROM sp25_3308_tuo85393.books ORDER BY b…	Error Code: 1054. Unknown column 'book_id' in 'ORDER BY'	0.023 sec
12	11:23:10	SELECT * FROM sp25_3308_tuo85393.books ORDER BY b…	Error Code: 1054. Unknown column 'book_id' in 'ORDER BY'	0.020 sec
13	11:23:12	SELECT * FROM sp25_3308_tuo85393.books ORDER BY b…	Error Code: 1054. Unknown column 'book_id' in 'ORDER BY'	0.017 sec
14	11:23:19	SELECT * FROM sp25_3308_tuo85393.books ORDER BY b…	Error Code: 1054. Unknown column 'book' in 'ORDER BY'	0.021 sec
15	11:23:25	SELECT * FROM sp25_3308_tuo85393.books LIMIT 0, 1000	10 row(s) returned	0.017 sec / 0.00000…
16	11:23:49	SELECT * FROM sp25_3308_tuo85393.books ORDER BY b…	Error Code: 1054. Unknown column 'book' in 'ORDER BY'	0.022 sec
17	11:23:51	SELECT * FROM sp25_3308_tuo85393.books ORDER BY b…	Error Code: 1054. Unknown column 'book' in 'ORDER BY'	0.017 sec
18	11:24:26	SELECT * FROM sp25_3308_tuo85393.books ORDER BY b…	Error Code: 1054. Unknown column 'book' in 'ORDER BY'	0.020 sec
19	11:25:08	Apply changes to books	Changes applied	
20	11:25:21	SELECT * FROM sp25_3308_tuo85393.books ORDER BY b…	10 row(s) returned	0.015 sec / 0.00001…

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

Query 1 | web_user | books | books - Table

Limit to 1000 rows

```
1 • SELECT book_review_id, user_email
2   FROM sp25_3308_tuo85393.books, sp25_3308_tuo85393.web_user
3   WHERE books.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	NULL	eric@mailfence.com
2	NULL	manny@yahoo.com
3	NULL	rafa@gmail.com
4	NULL	rafa@gmail.com
5	NULL	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

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

Query 1 | web_user | books | books - Table

Limit to 1000 rows

```
1 • SELECT book_review_id, user_email
2   FROM sp25_3308_tuo85393.books, sp25_3308_tuo85393.web_user
3   WHERE books.web_user_id = web_user.web_user_id AND books.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