

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

Query 1 ☒ user_role ☒ user_role - Table ☒

Name: Schema:

Column Name	Datatype	PK	NN	UQ	BIN	UN	ZF	AI	G	Default / Expression
user_role_id	INT(11)	<input checked="" 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_role_type	VARCHAR(10)	<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"/>	

4. web_user TABLE DESIGN and FOREIGN KEY

Query 1 ☒ user_role - Table ☒ web_user - Table ☒

Name: Schema:

Column Name	Datatype	PK	NN	UQ	BIN	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(500)	<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_fee	DECIMAL(8,2)	<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	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
user_role_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"/>	

Query 1 ☒ books - Table ☒ web_user - Table ☒ user_role - Table ☒

Name: Schema:

Foreign Key Name	Referenced Table	Foreign Key Columns
		Column Referenced Column
web_user_role	`sp25_3308_tuo85393`.`user_role`	<input type="checkbox"/> web_user_id <input type="checkbox"/> user_email <input type="checkbox"/> user_password <input type="checkbox"/> user_image <input type="checkbox"/> membership_fee <input type="checkbox"/> birthday <input checked="" type="checkbox"/> user_role_id user_role_id

5. "OTHER" TABLE DESIGN and FOREIGN KEY

Query 1 ✖ books - Table ✖ web_user - Table ✖ user_role - Table ✖

Name: books Schema: sp25_3308_tuo85393

Column Name	Datatype	PK	NN	UQ	BIN	UN	ZF	AI	G	Default / Expression
book-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"/>	
book_name	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"/>	
book_cover	VARCHAR(500)	<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"/>	
book_published	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
reader_rate	INT(5)	<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
reader_have_read	TINYINT(4)	<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"/>	
book_author	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"/>	

Column Details

Charset/Collation: Default Charset Default Collation

Generated Column Storage Type: ☒ VIRTUAL ☐ STORED

Comment:

Columns Indexes Foreign Keys Triggers Partitioning Options

Action Output

#	Time	Action	Message	Duration / Fetch
1	09:42:19	Apply changes to books	Changes applied	

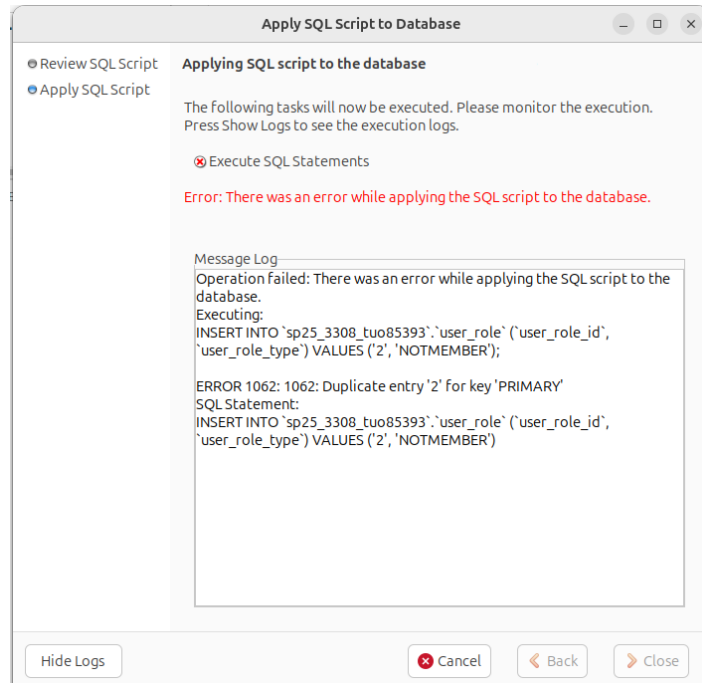
Query 1 ✖ books - Table ✖ web_user - Table ✖ user_role - Table ✖

Name: books Schema: sp25_3308_tuo85393

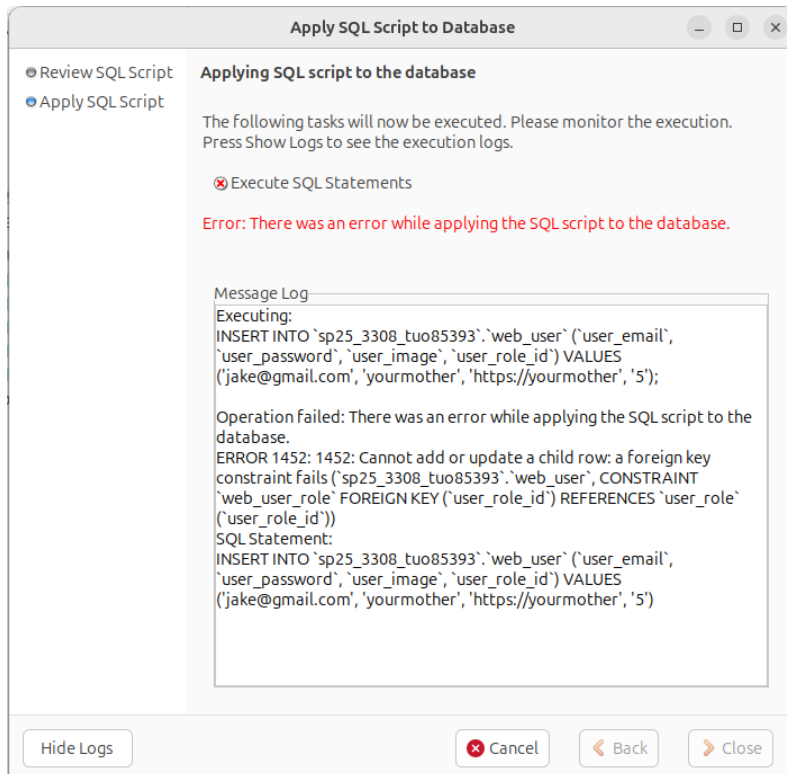
Foreign Key Name	Referenced Table	Foreign Key Columns																		
book_web_user	`sp25_3308_tuo85393`.`web_user`	<table border="1"><thead><tr><th>Column</th><th>Referenced Column</th></tr></thead><tbody><tr><td><input type="checkbox"/> book-id</td><td></td></tr><tr><td><input type="checkbox"/> book_name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

6. DATA ENTRY ERRORS

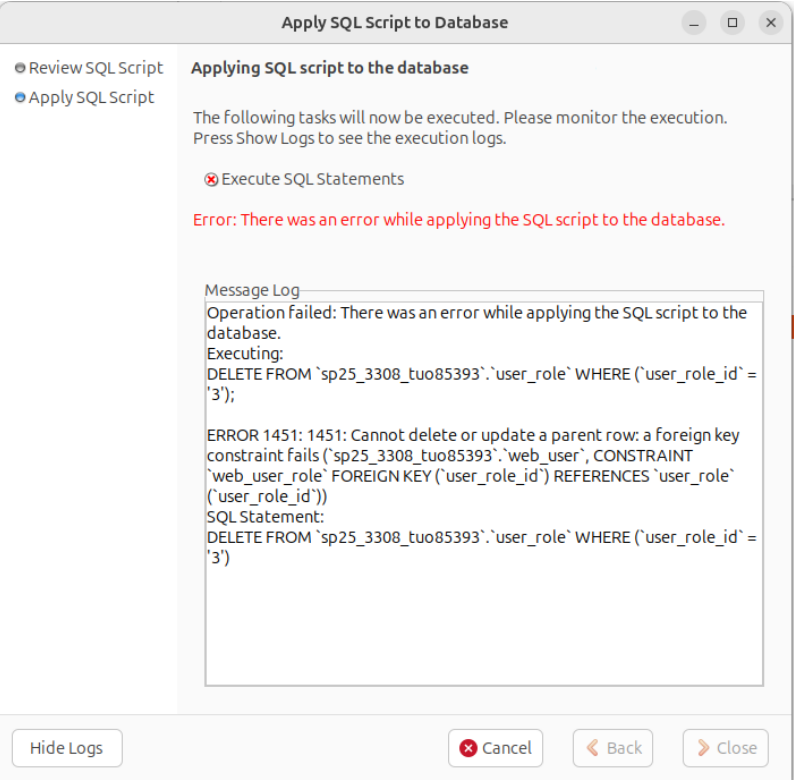
a) Error: Duplicate user_role PK



b) Error: Invalid user_role FK in web_user record

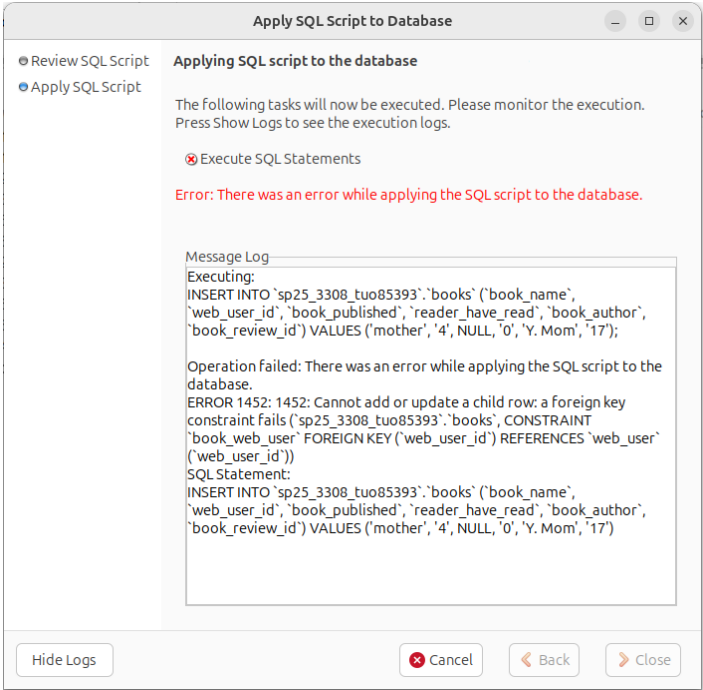


c) Error: Cannot delete a user_role record that's referenced by a web_user

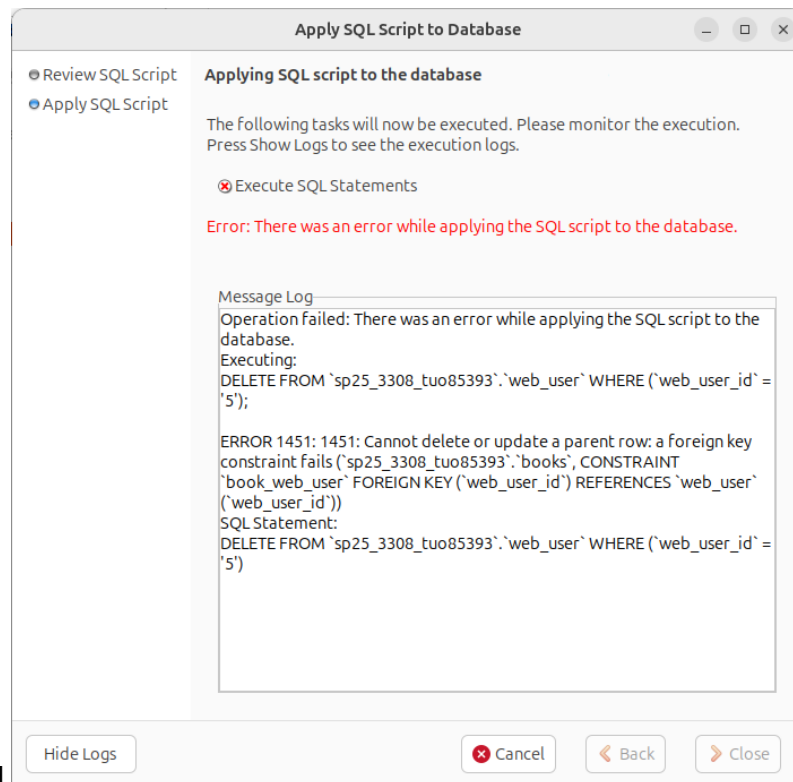


record

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.

Query 1 ✖ user_role ✖ web_user ✖

Limit to 1000 rows ▼

1 • `SELECT * FROM sp25_3308_tuo85393.user_role;`

Result Grid Filter Rows: Edit: Export/Import: Wrap Cell Conte

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

user_role 2 ✖

Action Output ▼

	#	Time	Action	Message
✖	31	17:28:29	SELECT user_role_id FROM sp25_3308_tuo85393.web_user, sp25_3308_tu...	Error Co
✖	32	17:28:30	SELECT user_role_id FROM sp25_3308_tuo85393.web_user, sp25_3308_tu...	Error Co
✖	33	17:29:38	SELECT user_role_id FROM sp25_3308_tuo85393.web_user, sp25_3308_tu...	Error Co
✖	34	17:29:39	SELECT user_role_id FROM sp25_3308_tuo85393.web_user, sp25_3308_tu...	Error Co
✓	35	17:31:07	SELECT web_user.user_role_id FROM sp25_3308_tuo85393.web_user, sp25...	5 row(s)
✓	36	17:31:40	SELECT * FROM sp25_3308_tuo85393.web_user LIMIT 0, 1000	5 row(s)
✓	37	17:33:21	SELECT web_user.user_role_id, user_email FROM sp25_3308_tuo85393.we...	5 row(s)
✖	38	17:34:01	SELECT web_user.user_role_type, user_email FROM sp25_3308_tuo85393....	Error Co
✓	39	17:34:10	SELECT user_role_type, user_email FROM sp25_3308_tuo85393.web_user, ...	5 row(s)
✓	40	17:37:41	SELECT * FROM sp25_3308_tuo85393.user_role LIMIT 0, 1000	3 row(s)

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

Query 1 ✖ user_role ✖ web_user ✖

Limit to 1000 rows

1 • `SELECT * FROM sp25_3308_tuo85393.web_user;`

Result Grid

#	web_user_id	user_email	user_password	user_image	membership_fee	birthday	user_role_id
1	1	rafa@g...	sillyme	https://sill...	NULL	NULL	1
2	2	rafaela...	sillyyou	https://sill...	5.00	2001-...	2
3	3	manny...	sillyus	https://sill...	3.00	2001-...	2
4	5	eric@m...	sillyyouall	https://sill...	3.00	2001-...	2
5	6	kayley@...	sillynoone	https://sill...	NULL	NULL	3
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL

web_user 2 ✖

Action Output

#	Time	Action	Message
✖ 32	17:28:30	SELECT user_role_id FROM sp25_3308_tuo85393.web_user, sp25_3308_tu...	Error Co
✖ 33	17:29:38	SELECT user_role_id FROM sp25_3308_tuo85393.web_user, sp25_3308_tu...	Error Co
✖ 34	17:29:39	SELECT user_role_id FROM sp25_3308_tuo85393.web_user, sp25_3308_tu...	Error Co
✓ 35	17:31:07	SELECT web_user.user_role_id FROM sp25_3308_tuo85393.web_user, sp25...	5 row(s)
✓ 36	17:31:40	SELECT * FROM sp25_3308_tuo85393.web_user LIMIT 0, 1000	5 row(s)
✓ 37	17:33:21	SELECT web_user.user_role_id, user_email FROM sp25_3308_tuo85393.we...	5 row(s)
✖ 38	17:34:01	SELECT web_user.user_role_type, user_email FROM sp25_3308_tuo85393....	Error Co
✓ 39	17:34:10	SELECT user_role_type, user_email FROM sp25_3308_tuo85393.web_user, ...	5 row(s)
✓ 40	17:37:41	SELECT * FROM sp25_3308_tuo85393.user_role LIMIT 0, 1000	3 row(s)
✓ 41	17:38:44	SELECT * FROM sp25_3308_tuo85393.web_user LIMIT 0, 1000	5 row(s)

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

Query 1 ✖ user_role ✖ web_user ✖

Limit to 1000 rows ▼

```

1 • SELECT user_role_type, user_email
2 FROM sp25_3308_tuo85393.web_user, sp25_3308_tuo85393.user_role
3 WHERE web_user.user_role_id = user_role.user_role_id
4 ORDER BY user_role_type, user_email

```

Result Grid 📊 Filter Rows: 🔍 Export: 📄 Wrap Cell Content: 🔗

#	user_role_type	user_email
1	ADMIN	rafa@g...
2	MEMBER	eric@m...
3	MEMBER	manny...
4	MEMBER	rafaela...
5	VIEW	kayley@...

Result 4 ✖

Action Output ▼

#	Time	Action	Message
✖ 30	17:27:59	SELECT web_user_id FROM sp25_3308_tuo85393.web_user, sp25_3308_tu...	Error Co
✖ 31	17:28:29	SELECT user_role_id FROM sp25_3308_tuo85393.web_user, sp25_3308_tu...	Error Co
✖ 32	17:28:30	SELECT user_role_id FROM sp25_3308_tuo85393.web_user, sp25_3308_tu...	Error Co
✖ 33	17:29:38	SELECT user_role_id FROM sp25_3308_tuo85393.web_user, sp25_3308_tu...	Error Co
✖ 34	17:29:39	SELECT user_role_id FROM sp25_3308_tuo85393.web_user, sp25_3308_tu...	Error Co
✔ 35	17:31:07	SELECT web_user.user_role_id FROM sp25_3308_tuo85393.web_user, sp25...	5 row(s)
✔ 36	17:31:40	SELECT * FROM sp25_3308_tuo85393.web_user LIMIT 0, 1000	5 row(s)
✔ 37	17:33:21	SELECT web_user.user_role_id, user_email FROM sp25_3308_tuo85393.we...	5 row(s)
✖ 38	17:34:01	SELECT web_user.user_role_type, user_email FROM sp25_3308_tuo85393....	Error Co
✔ 39	17:34:10	SELECT user_role_type, user_email FROM sp25_3308_tuo85393.web_user, ...	5 row(s)

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_ix
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 v

#	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			