1.   STUDENT NAME

Joshua Slootsky

2.   URL to STUDENT WEB SITE

https://cis-linux2.temple.edu/tomcat10/sp25_3308_tun90969/

3.   user_role TABLE DESIGN

4.   web_user TABLE DESIGN and FOREIGN KEY

5.   Other table design and foreign key

Foreign Key Name	Referenced Table
web_user_id	`sp25_3308_tun90969`.`web_user`

Column	Referenced Column
☐ review_id	
☐ review_game_n...	
☐ game_image_url	
☐ user_review	
☐ user_rating	
☐ game_price	
☐ user_playtime	
☐ game_genre	
☑ web_user_id	web_user_id

6. Data Entry Errors

a.

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_tun90969`.`user_role` (`user_role_id`, `user_role_type`) VALUES ('1', 'Banned');

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 `sp25_3308_tun90969`.`user_role` (`user_role_id`, `user_role_type`) VALUES ('1', 'Banned')
```

b.

```
1 •  SELECT * from user_role
2    ORDER BY user_role_id;
```

Result Grid | Filter Rows:

user_role_id	user_role_type
1	ADMIN
2	MEMBER
3	VIEW
NULL	NULL

c.

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_tun90969`.`web_user` (`user_email`, `user_password`, `user_role_id`)
VALUES ('abc123@hotmail.com', 'avc', '5');

ERROR 1452: 1452: Cannot add or update a child row: a foreign key constraint fails
(`sp25_3308_tun90969`.`web_user`, CONSTRAINT `web_user_role` FOREIGN KEY (`user_role_id`)
REFERENCES `user_role` (`user_role_id`))
SQL Statement:
INSERT INTO `sp25_3308_tun90969`.`web_user` (`user_email`, `user_password`, `user_role_id`)
VALUES ('abc123@hotmail.com', 'avc', '5')

```
1 ●  SELECT * from web_user
2    ORDER BY web_user_id;
```

	web_user_id	user_email	user_password	user_image	membership_fee	birthday	user_role_id
▶	1	joshuaslootsky@gmail.com	Tit@nmain2004!	NULL	10.00	2004-07-07	1
	2	davetivel@gmail.com	Lalaland445@	NULL	5.00	2004-02-12	2
	3	testtest123@aol.com	@Here451	NULL	NULL	NULL	3
	4	eliapple20@yahoo.com	Superbowl'2022!	NULL	5.00	NULL	2
	5	dstaley22@hotmail.com	EaglesRB2...	Superbowl2022!	15.00	NULL	2
	6	jallen17@yahoo.com	GoBills2025@	NULL	10.00	1996-05-21	2
	8	jalenhurts1@gmai.com	Tushpush41!	NULL	0.00	NULL	2
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL

d.

e.

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:
UPDATE `sp25_3308_tun90969`.`user_role` SET `user_role_id` = '', `user_role_type` = '' WHERE
(`user_role_id` = '2');

Operation failed: There was an error while applying the SQL script to the database.
ERROR 1366: 1366: Incorrect integer value: '' for column
`sp25_3308_tun90969`.`user_role`.`user_role_id` at row 1
SQL Statement:
UPDATE `sp25_3308_tun90969`.`user_role` SET `user_role_id` = '', `user_role_type` = '' WHERE
(`user_role_id` = '2')

f.   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_tun90969`.`review` (`review_game_name`,
`user_rating`, `game_genre`, `web_user_id`) VALUES ('blahblahnotwork', '1', 'Other',
'102');

ERROR 1452: 1452: Cannot add or update a child row: a foreign key constraint fails
(`sp25_3308_tun90969`.`review`, CONSTRAINT `web_user_id` FOREIGN KEY
(`web_user_id`) REFERENCES `web_user` (`web_user_id`) ON DELETE NO ACTION
ON UPDATE NO ACTION)
SQL Statement:
INSERT INTO `sp25_3308_tun90969`.`review` (`review_game_name`,
`user_rating`, `game_genre`, `web_user_id`) VALUES ('blahblahnotwork', '1', 'Other',
'102')

g.   **Error trying to delete a web_user record that's referenced by an 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

Executing:
DELETE FROM `sp25_3308_tun90969`.`web_user` WHERE (`web_user_id` = '4');

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_tun90969`.`review`, CONSTRAINT `web_user_id` FOREIGN KEY (`web_user_id`)
REFERENCES `web_user` (`web_user_id`) ON DELETE NO ACTION ON UPDATE NO ACTION)
SQL Statement:
DELETE FROM `sp25_3308_tun90969`.`web_user` WHERE (`web_user_id` = '4')

7.

```
1 ●  SELECT web_user_id, user_email, user_role.user_role_type
2    FROM web_user INNER JOIN user_role
3    WHERE web_user.user_role_id = user_role.user_role_id
4    ORDER BY web_user_id;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: $\overline{\text{IA}}$

web_user_id	user_email	user_role_type
1	joshuaslootsky@gmail.com	ADMIN
2	davetivel@gmail.com	MEMBER
3	testtest123@aol.com	VIEW
4	eliapple20@yahoo.com	MEMBER
5	dstaley22@hotmail.com	MEMBER
6	jallen17@yahoo.com	MEMBER
8	jalenhurts1@gmai.com	MEMBER

a. OTHER: all rows, all columns, sorted by the id of the other table

```
1 ●  SELECT * FROM review
2    ORDER BY review_id;
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: $\overline{\text{IA}}$

review_id	review_game_name	game_image_url	user_review	user_rating	game_price	user_playtime	game_genre	web_user_id
1	Destiny 2	https://i.ebayimg.com/image...	Good game but horrible d...	4	0.00	2100.3	RPG	1
2	Rainbow Six: Siege	NULL	Needs an update	3	39.99	600.5	Shooter	1
3	Squad	https://upload.wikimedia.org...	Great game! Love the te...	5	29.99	1031.3	Shooter	8
4	Madden: 25	NULL	Horrible. Basically the sa...	2	69.99	30.1	Sports	6
5	Stardew Valley	NULL	NULL	5	NULL	NULL	RPG	5
6	Marvel Rivals	https://upload.wikimedia.org...	Great game to play with f...	4	0.00	98.4	Shooter	2
7	Elden Ring	NULL	NULL	5	59.99	NULL	Action	4
8	Stalker 2: Heart of Chernobyl	https://upload.wikimedia.org...	Doesn't live up to the hyp...	3	69.99	40.5	Adventure	3
9	Warhammer 40000: Space Marine 2	NULL	Incredibly fun. Takes me ...	5	59.99	104.1	Action	5
10	Frostpunk 2	NULL	I really liked how Fristpun...	4	39.99	25.5	Other	6
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

review 1 × | Apply

Output

Action Output

#	Time	Action	Message
✅ 4	19:53:37	SELECT * FROM sp25_3308_tun90969.web_user LIMIT 0, 1000	7 row(s) returned
❌ 5	20:08:44	INSERT INTO `sp25_3308_tun90969`.`review` (`review_game_name`, `user_rating`, `game_genre`, `web...	1452: Cannot add or update a child row: a foreign key constraint fails ('s
❌ 6	20:09:55	DELETE FROM `sp25_3308_tun90969`.`web_user` WHERE (`web_user_id` = '4')	1451: Cannot delete or update a parent row: a foreign key constraint fail
❌ 7	20:18:02	SELECT * FROM review, ORDER BY review_id	Error Code: 1064. You have an error in your SQL syntax; check the mar
✅ 8	20:19:06	SELECT * FROM review ORDER BY review_id LIMIT 0, 1000	10 row(s) returned

b. OTHER joined with web_user all rows, certain columns, sorted

```
1  SELECT review.web_user_id, review.review_game_name, web_user.user_email
2  FROM review
3  LEFT JOIN web_user ON review.web_user_id = web_user.web_user_id
4  ORDER BY review.web_user_id, review.review_game_name;
```

web_user_id	review_game_name	user_email
1	Destiny 2	joshuaslootsky@gmail.com
1	Rainbow Six: Siege	joshuaslootsky@gmail.com
2	Destiny 2	davetivel@gmail.com
3	Stalker 2: Heart of C…	testtest123@aol.com
4	Elden Ring	eliapple20@yahoo.com
5	Stardew Valley	dstaley22@hotmail.com
5	Warhammer 40000: …	dstaley22@hotmail.com
6	Frostpunk 2	jallen17@yahoo.com
6	Madden: 25	jallen17@yahoo.com
8	Squad	jalenhurts1@gmai.com
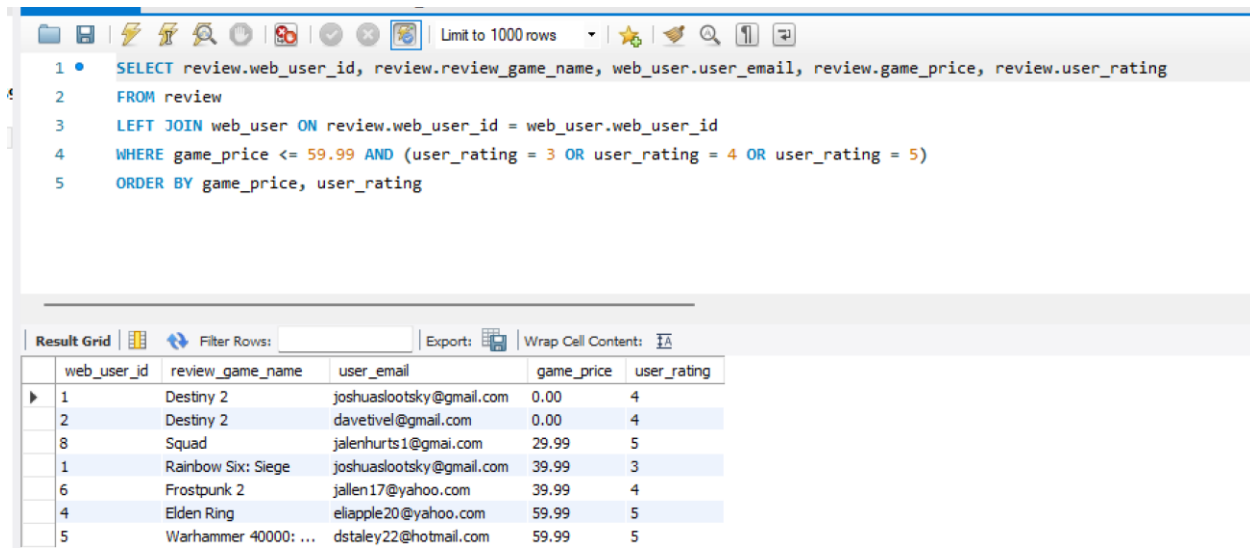
Result 5 ✕

Output

Action Output

#	Time	Action	Message
❌ 11	20:32:09	SELECT review.web_user_id, review.review_game_name, web_user.user_email LEFT JOIN review ON r…	Error Code: 1064. You have an error in
❌ 12	20:32:22	SELECT review.web_user_id, review.review_game_name, web_user.user_email FROM review LEFT JOI…	Error Code: 1066. Not unique table/alia
❌ 13	20:32:48	SELECT review.web_user_id, review.review_game_name, web_user.user_email FROM sp25_3308_tun…	Error Code: 1066. Not unique table/alia
✅ 14	20:33:53	SELECT review.web_user_id, review.review_game_name, web_user.user_email FROM sp25_3308_tun…	10 row(s) returned
✅ 15	20:34:42	SELECT review.web_user_id, review.review_game_name, web_user.user_email FROM review LEFT JOI…	10 row(s) returned

c. OTHER joined with web_user some rows, certain columns, sorted

```
1 • SELECT review.web_user_id, review.review_game_name, web_user.user_email, review.game_price, review.user_rating
2   FROM review
3   LEFT JOIN web_user ON review.web_user_id = web_user.web_user_id
4   WHERE game_price <= 59.99 AND (user_rating = 3 OR user_rating = 4 OR user_rating = 5)
5   ORDER BY game_price, user_rating
```

web_user_id	review_game_name	user_email	game_price	user_rating
1	Destiny 2	joshuaslootsky@gmail.com	0.00	4
2	Destiny 2	davetivel@gmail.com	0.00	4
8	Squad	jalenhurts1@gmai.com	29.99	5
1	Rainbow Six: Siege	joshuaslootsky@gmail.com	39.99	3
6	Frostpunk 2	jallen17@yahoo.com	39.99	4
4	Elden Ring	eliapple20@yahoo.com	59.99	5
5	Warhammer 40000: ...	dstaley22@hotmail.com	59.99	5