

- Thomas Toal

- http://cis-linux2.temple.edu:8080/fa21_3308_tuj55883/index.html#/blog

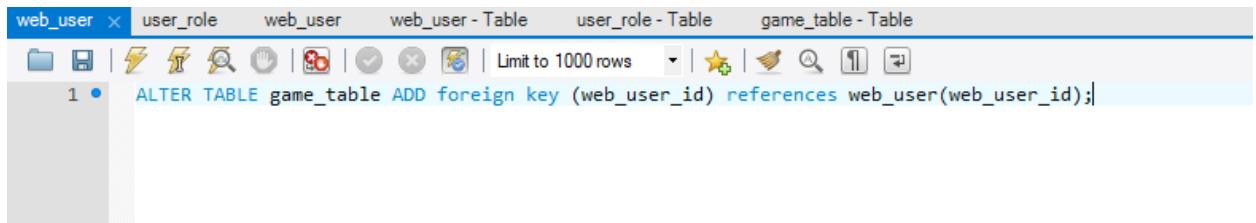
- [illegible]

4. web_user TABLE DESIGN and FOREIGN KEY

[illegible]

5. Other table design

[illegible]




6. DATA ENTRY ERRORS

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 `fa21_3308_tuj55883`.`user_role` (`user_role_id`, `user_role_name`) VALUES ('1',
'ADMIN');
INSERT INTO `fa21_3308_tuj55883`.`user_role` (`user_role_id`, `user_role_name`) VALUES ('2',
'SUBMIN');
INSERT INTO `fa21_3308_tuj55883`.`user_role` (`user_role_id`, `user_role_name`) VALUES ('1',
'MULTMIN');

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 `fa21_3308_tuj55883`.`user_role` (`user_role_id`, `user_role_name`) VALUES ('1',
'MULTMIN')
```


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 Execute SQL Statements

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

Message Log

```
Executing:
INSERT INTO `fa21_3308_tuj55883`.`web_user` (`user_email`, `user_password`, `membership_fee`,
`birthday`, `user_role_id`) VALUES ('ab@gmail.com', 'password', '2', '12/1/1947', '1');
INSERT INTO `fa21_3308_tuj55883`.`web_user` (`user_email`, `user_password`, `membership_fee`,
`birthday`, `user_role_id`) VALUES ('ac@gmail.com', '123456', '2', '1/3/1993', '2');
INSERT INTO `fa21_3308_tuj55883`.`web_user` (`user_email`, `user_password`, `membership_fee`,
`birthday`, `user_role_id`) VALUES ('ad@gmail.com', 'drowssap', '2', '2/28/2001', '3');
INSERT INTO `fa21_3308_tuj55883`.`web_user` (`user_email`, `user_password`, `membership_fee`,
`birthday`, `user_role_id`) VALUES ('ae@gmail.com', 'csabjijk', '2', '6/3/1982', '1');
INSERT INTO `fa21_3308_tuj55883`.`web_user` (`user_email`, `user_password`, `membership_fee`,
`birthday`, `user_role_id`) VALUES ('ag@gmail.com', 'pf93nNM', '2', '3/5/2000', '4');

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
(`fa21_3308_tuj55883`.`web_user`, CONSTRAINT `web_user_ibfk_1` FOREIGN KEY (`user_role_id`)
REFERENCES `user_role` (`user_role_id`))
SQL Statement:
INSERT INTO `fa21_3308_tuj55883`.`web_user` (`user_email`, `user_password`, `membership_fee`,
`birthday`, `user_role_id`) VALUES ('ag@gmail.com', 'pf93nNM', '2', '3/5/2000', '4')
```


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

```
Operation failed: There was an error while applying the SQL script to the database.
Executing:
DELETE FROM `fa21_3308_tuj55883`.`user_role` WHERE `user_role_id` = '1';

ERROR 1451: 1451: Cannot delete or update a parent row: a foreign key constraint fails
(`fa21_3308_tuj55883`.`web_user`, CONSTRAINT `web_user_ibfk_1` FOREIGN KEY (`user_role_id`)
REFERENCES `user_role` (`user_role_id`))
SQL Statement:
DELETE FROM `fa21_3308_tuj55883`.`user_role` WHERE `user_role_id` = '1'
```

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:
UPDATE `fa21_3308_tuj55883`.`game_table` SET `web_user_id`='15' WHERE `game_id`='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
(`fa21_3308_tuj55883`.`game_table`, CONSTRAINT `game_table_ibfk_1` FOREIGN KEY
(`web_user_id`) REFERENCES `web_user` (`web_user_id`))
SQL Statement:
UPDATE `fa21_3308_tuj55883`.`game_table` SET `web_user_id`='15' WHERE `game_id`='17'

Hide Logs

Back Finish Cancel


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

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:
DELETE FROM `fa21_3308_tuj55883`.`web_user` WHERE `web_user_id`='12';

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
(`fa21_3308_tuj55883`.`game_table`, CONSTRAINT `game_table_ibfk_1` FOREIGN KEY
(`web_user_id`) REFERENCES `web_user` (`web_user_id`))
SQL Statement:
DELETE FROM `fa21_3308_tuj55883`.`web_user` WHERE `web_user_id`='12'
```

Hide Logs

Back

Finish

Cancel

7. SELECT STATEMENTS

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

```

1 • SELECT * FROM fa21_3308_tuj55883.user_role
2 ORDER BY `user_role_id` DESC;

```

user_role_id	user_role_name
3	MULTMIN
2	SUBMIN
1	ADMIN
NULL	NULL

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

```

1 • SELECT * FROM fa21_3308_tuj55883.web_user
2 ORDER BY `web_user_id` DESC;

```

web_user_id	user_email	user_password	image	membership_fee	birthday	user_role_id
12	null@gmail	fasik	ads.png	NULL	NULL	1
10	aa@gmail.com	pf93nNM	NULL	2.00	0000-00-00	2
9	ae@gmail.com	csabiik	NULL	2.00	0000-00-00	1
8	ad@gmail.com	drowssap	NULL	2.00	0000-00-00	3
6	ab@gmail.com	password	beanstalk.jpg	2.00	1999-01-01	1
NULL	NULL	NULL	NULL	NULL	NULL	NULL

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

```
1 SELECT web_user_id, user_email, user_password, image, membership_fee, birthday, web_user.user_role_id, user_role_name
2 FROM web_user, user_role
3 WHERE web_user.user_role_id = user_role.user_role_id;
```

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

web_user_id	user_email	user_password	image	membership_fee	birthday	user_role_id	user_role_name
6	ab@gmail.com	password	beastalk.ipo	2.00	1999-01-01	1	ADMIN
8	ad@gmail.com	drowssao	NULL	2.00	0000-00-00	3	MULTMIN
9	ae@gmail.com	csabiirk	NULL	2.00	0000-00-00	1	ADMIN
10	ag@gmail.com	pf93nNM	NULL	2.00	0000-00-00	2	SUBMIN
12	null@gmail	fasik	ads.png	NULL	NULL	1	ADMIN

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

```
1 SELECT * FROM fa21_3308_tuj55883.game_table
2 ORDER BY `game_id` DESC;
```

Result Grid

Filter Rows:

Edit

Export/Import:

Wrap Cell Content:

game_id	game_name	release_date	price	genre	developer	img	web_user_id
16	A Wav Out	2018-03-23	40.00	Co-op	HazeLight	NULL	12
15	Ashen	2018-12-07	35.00	Action	A44	NULL	8
14	SpeedRunners	2013-08-26	20.00	Mutlilaver	TinvBuild	NULL	9
13	Twelve Minutes	2021-08-19	15.00	Mysterv	Luis Antonio	NULL	12
12	Quint	NULL	NULL	NULL	Dream Studios	NULL	10
11	Fall Guvs	2020-02-26	20.00	Battle Royale	Mediatonic	NULL	9
10	Amond Us	2018-08-31	5.00	Mutlilaver	InnerSloth	NULL	8
1	Shovel Knight	2014-06-26	30.00	Adventure	Yacht Club	pics/shovelKnight.ipo	6
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

game_table 9 x

Output

Action Output

#	Time	Action	Message
23	14:22:32	DELETE FROM fa21_3308_tuj55883.`web_user` WHERE `web_user_id`=12	1451: Cannot delete or update a parent row: a foreign key constraint fi
24	14:24:21	SELECT * FROM fa21_3308_tuj55883.game_table LIMIT 0, 1000	8 row(s) returned
25	14:24:39	SELECT * FROM fa21_3308_tuj55883.game_table ORDER BY `game_id` DESC LIMIT 0, 1000	8 row(s) returned
26	14:32:57	SELECT game_table.game_name, web_user.user_email FROM game_table INNER JOIN web_user ON game_table....	8 row(s) returned
27	14:33:56	SELECT game_table.game_name, web_user.user_email FROM game_table INNER JOIN web_user ON game_table....	8 row(s) returned
28	14:35:09	SELECT * FROM fa21_3308_tuj55883.game_table ORDER BY `game_id` DESC LIMIT 0, 1000	8 row(s) returned

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

1	•	SELECT game_table.game_name, web_user.user_email
2		FROM game_table
3		INNER JOIN web_user ON game_table.web_user_id=web_user.web_user_id;

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
game_name	user_email			
Shovel Knight	ab@gmail.com			
Among Us	ad@gmail.com			
Ashen	ad@gmail.com			
Fall Guvs	ae@gmail.com			
SpeedRunners	ae@gmail.com			
Quint	aa@gmail.com			
Twelve Minutes	null@gmail			
A Wav Out	null@gmail			

Result 3 ×				
Output				
Action Output				
#	Time	Action	Message	
✓	22 14:22:14	SELECT * FROM fa21_3308_tuj55883.web_user LIMIT 0, 1000	5 row(s) returned	
✗	23 14:22:32	DELETE FROM fa21_3308_tuj55883.web_user WHERE web_user_id='12'	1451: Cannot delete or update a parent row: a foreign	
✓	24 14:24:21	SELECT * FROM fa21_3308_tuj55883.game_table LIMIT 0, 1000	8 row(s) returned	
✓	25 14:24:39	SELECT * FROM fa21_3308_tuj55883.game_table ORDER BY game_id DESC LIMIT 0, 1000	8 row(s) returned	
✓	26 14:32:57	SELECT game_table.game_name, web_user.user_email FROM game_table INNER JOIN web_user ON game_table....	8 row(s) returned	
✓	27 14:33:56	SELECT game_table.game_name, web_user.user_email FROM game_table INNER JOIN web_user ON game_table....	8 row(s) returned	

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


```

1 SELECT game_table.game_name, web_user.user_email
2 FROM game_table
3 INNER JOIN web_user ON game_table.web_user_id=web_user.web_user_id
4 WHERE user_email = "ae@gmail.com";

```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: [IA](#)

game_name	user_email
Fall Guvs	ae@gmail.com
SpeedRunners	ae@gmail.com

Result 4 x

Output

Action Output

#	Time	Action	Message
✓ 24	14:24:21	SELECT * FROM fa21_3308_tuj55883.game_table LIMIT 0, 1000	8 row(s) returned
✓ 25	14:24:39	SELECT * FROM fa21_3308_tuj55883.game_table ORDER BY 'game_id' DESC LIMIT 0, 1000	8 row(s) returned
✓ 26	14:32:57	SELECT game_table.game_name, web_user.user_email FROM game_table INNER JOIN web_user ON game_table....	8 row(s) returned
✓ 27	14:33:56	SELECT game_table.game_name, web_user.user_email FROM game_table INNER JOIN web_user ON game_table....	8 row(s) returned
✓ 28	14:35:09	SELECT * FROM fa21_3308_tuj55883.game_table ORDER BY 'game_id' DESC LIMIT 0, 1000	8 row(s) returned
✓ 29	14:37:42	SELECT game_table.game_name, web_user.user_email FROM game_table INNER JOIN web_user ON game_table....	2 row(s) returned