










Kian Azadi

2. http://cis-linux2.temple.edu:8080/FA22_3308_tuf48228/#/home

3. user_role TABLE DESIGN

Table Name: <input type="text" value="user_role"/>		Schema: FA22_3308_tuf48228									
Column Name	Datatype	PK	NN	UQ	B	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"/>		
		<input type="checkbox"/>	<input type="checkbox"/>	<input 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

Table Name: <input type="text" value="web_user"/>		Schema: FA22_3308_tuf48228									
Column Name	Datatype	PK	NN	UQ	B	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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	
 image	VARCHAR(300)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
 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"/>		
 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"/>		
 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"/>		
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

Foreign Key Name	Referenced Table	Column	Referenced Column
web_user_ibfk_1	FA22_3308_tuf48228`.`user_role`	<input type="checkbox"/> web_user_id	
		<input type="checkbox"/> user_email	
		<input type="checkbox"/> user_password	
		<input type="checkbox"/> 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

Table Name: Schema: **FA22_3308_tuf48228**

Collation: Engine:

Comments:

Column Name	Datatype	PK	NN	UQ	B	UN	ZF	AI	G	Default/Expression
recipe_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"/>	
recipe_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"/>	
recipe_image	VARCHAR(200)	<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
recipe_notes	VARCHAR(100)	<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
recipe_rating_stars	INT(1)	<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
recipe_times_used	INT(10)	<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
recipe_keywords	VARCHAR(100)	<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	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"/>	

Table Name: Schema: **FA22_3308_tuf48228**

Collation: Engine:

Comments:

Foreign Key Name	Referenced Table	Column	Referenced Column
web_user_idfk	`FA22_3308_tuf48228`.`web_user`	<input type="checkbox"/> recipe_id	
		<input type="checkbox"/> recipe_name	
		<input type="checkbox"/> recipe_image	
		<input type="checkbox"/> recipe_notes	
		<input type="checkbox"/> recipe_rating_st...	
		<input type="checkbox"/> recipe_times_used	
		<input type="checkbox"/> recipe_keywords	
		<input checked="" type="checkbox"/> web_user_id	web_user_id

6. DATA ENTRY ERRORS

a) Error: Duplicate user_role PK

```
Executing:
UPDATE `FA22_3308_tuf48228`.`user_role` SET `user_role_id`='2' WHERE `user_role_id`='3';

Operation failed: There was an error while applying the SQL script to the database.
ERROR 1062: 1062: Duplicate entry '2' for key 'PRIMARY'
SQL Statement:
UPDATE `FA22_3308_tuf48228`.`user_role` SET `user_role_id`='2' WHERE `user_role_id`='3'
```

b) Error: Invalid user_role FK in web_user record

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

Message Log

```
Executing:
INSERT INTO `FA22_3308_tuf48228`.`web_user` (`web_user_id`, `user_email`, `user_password`,
`user_role_id`) VALUES ('3', 'askjd@kdj.net', 'peaches', '3');
INSERT INTO `FA22_3308_tuf48228`.`web_user` (`web_user_id`, `user_email`, `user_password`,
`user_role_id`) VALUES ('4', '123@45.6', 'apples', '2');
INSERT INTO `FA22_3308_tuf48228`.`web_user` (`web_user_id`, `user_email`, `user_password`,
`user_role_id`) VALUES ('5', 'IAmA@donut.com', 'pears', '5');

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
(`FA22_3308_tuf48228`.`web_user`, CONSTRAINT `web_user_ibfk_3` FOREIGN KEY (`user_role_id`)
REFERENCES `user_role` (`user_role_id`))
SQL Statement:
INSERT INTO `FA22_3308_tuf48228`.`web_user` (`web_user_id`, `user_email`, `user_password`,
`user_role_id`) VALUES ('5', 'IAmA@donut.com', 'pears', '5')
```

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

Message Log

```
Executing:
DELETE FROM `FA22_3308_tuf48228`.`user_role` WHERE `user_role_id` = '1';

ERROR 1451: 1451: Cannot delete or update a parent row: a foreign key constraint fails
(`FA22_3308_tuf48228`.`web_user`, CONSTRAINT `web_user_ibfk_3` FOREIGN KEY (`user_role_id`)
REFERENCES `user_role` (`user_role_id`))
SQL Statement:
DELETE FROM `FA22_3308_tuf48228`.`user_role` WHERE `user_role_id` = '1'

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

d) 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:  
UPDATE `FA22_3308_tuf48228`.`saved_recipes` SET `web_user_id`='30' WHERE `recipe_id`='7';  
  
ERROR 1452: 1452: Cannot add or update a child row: a foreign key constraint fails  
(`FA22_3308_tuf48228`.`saved_recipes`, CONSTRAINT `web_user_idfk` FOREIGN KEY  
(`web_user_id`) REFERENCES `web_user` (`web_user_id`) ON DELETE NO ACTION ON UPDATE NO  
ACTION)  
SQL Statement:  
UPDATE `FA22_3308_tuf48228`.`saved_recipes` SET `web_user_id`='30' WHERE `recipe_id`='7'
```

e) 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

```
Operation failed: There was an error while applying the SQL script to the database.  
Executing:  
DELETE FROM `FA22_3308_tuf48228`.`web_user` WHERE `web_user_id`='1';  
  
ERROR 1451: 1451: Cannot delete or update a parent row: a foreign key constraint fails  
(`FA22_3308_tuf48228`.`saved_recipes`, CONSTRAINT `web_user_idfk` FOREIGN KEY  
(`web_user_id`) REFERENCES `web_user` (`web_user_id`) ON DELETE NO ACTION ON UPDATE NO  
ACTION)  
SQL Statement:  
DELETE FROM `FA22_3308_tuf48228`.`web_user` WHERE `web_user_id`='1'
```

7. SELECT STATEMENTS

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

The screenshot shows a database management interface with a query editor and a results pane. The query editor displays a SQL statement to select all rows from the user_role table, sorted by user_role_id. The results pane shows a table with two columns: user_role_id and user_role_type. The table contains three rows: 1 (ADMIN), 2 (MEMBER), and 3 (VIEWER). The interface also shows a message log at the bottom indicating that the query was executed successfully and returned 3 rows.

Query 1 user_role - Table web_user - Table user_role x web_user

Limit to 1000 rows

1 • SELECT * FROM FA22_3308_tuf48228.user_role;

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

user_role_id	user_role_type
1	ADMIN
2	MEMBER
3	VIEWER

user_role 3 x

Output

Action Output

#	Time	Action	Message
1	19:03:31	SELECT * FROM FA22_3308_tuf48228.user_role LIMIT 0, 1000	3 row(s) returned

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

Limit to 1000 rows

```
1 • SELECT * FROM FA22_3308_tuf48228.web_user;
```

Result Grid

web_user_id	user_email	user_password	image	membership_fee	birthday	user_role_id
1	tuf48228@temple.edu	bananas	NULL	NULL	NULL	1
2	totalv@real.com	pineapples	NULL	NULL	NULL	2
3	!askid@kdi.net	peaches	NULL	NULL	NULL	3
4	123@45.6	apples	NULL	NULL	NULL	2
5	IAmA@donut.com	pears	NULL	NULL	NULL	2
NULL	NULL	NULL	NULL	NULL	NULL	NULL

web_user 2 x

Output

Action Output

#	Time	Action	Message
✓ 1	19:03:31	SELECT * FROM FA22_3308_tuf48228.user_role LIMIT 0, 1000	3 row(s) returned
✓ 2	19:04:00	SELECT * FROM FA22_3308_tuf48228.web_user LIMIT 0, 1000	5 row(s) returned

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

Query 1 user_role - Table web_user - Table user_role web_user x

```
1 • SELECT *
2 FROM web_user, user_role
3 WHERE web_user.user_role_id = user_role.user_role_id;
```

Result Grid

web_user_id	user_email	user_password	image	membership_fee	birthday	user_role_id	user_role_id	user_role_type
1	tuf48228@temple.edu	bananas	NULL	NULL	NULL	1	1	ADMIN
2	totalv@real.com	pineapples	NULL	NULL	NULL	2	2	MEMBER
3	!askid@kdi.net	peaches	NULL	NULL	NULL	3	3	VIEWER
4	123@45.6	apples	NULL	NULL	NULL	2	2	MEMBER
5	IAmA@donut.com	pears	NULL	NULL	NULL	2	2	MEMBER

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

Query 1 saved_recipes - Table FA22_3308_tuf48228.saved_re... saved_recipes x

Limit to 1000 rows

1 • SELECT * FROM FA22_3308_tuf48228.saved_recipes;

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

recipe_id	recipe_name	recipe_image	recipe_notes	recipe_url	recipe...
1	salmon bacon	https://www.babaganosh.org/wp-content/uplo...	pretty good, easy to make	https://www.babaganosh.org/crispy-salmon-ski...	4
2	Hollandaise	NULL	NULL	https://www.foodnetwork.com/recipes/tvler-flo...	NULL
3	Pancakes	NULL	Fluffies recipe to date	https://cooking.nytimes.com/recipes/1893-ever...	4
4	French Onion Soup	NULL	Very long cook time	https://cooking.nytimes.com/recipes/1017256-f...	5
5	Squash Salad w/ Citronette	https://cookieandkate.com/images/2013/07/su...	best squash i've ever had	https://cookieandkate.com/summer-squash-sal...	5
6	Sauce Tomat	NULL	One of the 5 mother sauces	https://www.escoffieronline.com/sauce-tomat-...	4
7	soaphetti Adio e Olio	NULL	start is surprisinaly delicious	https://www.allrecipes.com/recipe/222000/soa...	5
8	Lemon Merinque Pie	NULL	NULL	https://www.allrecipes.com/recipe/15093/aran...	NULL
9	Creme brulee	NULL	long, but worth it	https://cooking.nytimes.com/recipes/9039-vanil...	5
10	pizza dough	NULL	NULL	https://suarsounrun.com/the-best-pizza-doug...	NULL
NULL	NULL	NULL	NULL	NULL	NULL

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

Query 1 saved_recipes - Table FA22_3308_tuf48228.saved_re... saved_recipes x

Limit to 1000 rows

1 • SELECT recipe_id, recipe_name, user_email FROM FA22_3308_tuf48228.saved_recipes, FA22_3308_tuf48228.web_user order by recipe_id;

Result Grid Filter Rows: Export: Wrap Cell Contents:

recipe_id	recipe_name	user_email
1	salmon bacon	totalv@real.com
1	salmon bacon	tlasktd@kdi.net
1	salmon bacon	tuf48228@temole.edu
1	salmon bacon	IAmA@donut.com
1	salmon bacon	123@45.6
2	Hollandaise	totalv@real.com
2	Hollandaise	tlasktd@kdi.net
2	Hollandaise	tuf48228@temole.edu
2	Hollandaise	IAmA@donut.com
2	Hollandaise	123@45.6
3	Pancakes	totalv@real.com
3	Pancakes	tlasktd@kdi.net
3	Pancakes	tuf48228@temole.edu
3	Pancakes	IAmA@donut.com
4	French Onio...	123@45.6
4	French Onio...	totalv@real.com
4	French Onio...	tlasktd@kdi.net
4	French Onio...	tuf48228@temole.edu
4	French Onio...	IAmA@donut.com
5	Squash Sala...	123@45.6
5	Squash Sala...	totalv@real.com
5	Squash Sala...	tlasktd@kdi.net
5	Squash Sala...	tuf48228@temole.edu
5	Squash Sala...	IAmA@donut.com
6	Sauce Tomat	123@45.6
6	Sauce Tomat	totalv@real.com
6	Sauce Tomat	tlasktd@kdi.net
6	Sauce Tomat	tuf48228@temole.edu
6	Sauce Tomat	IAmA@donut.com
7	soaphetti Ad...	123@45.6
7	soaphetti Ad...	totalv@real.com
7	soaphetti Ad...	tlasktd@kdi.net
7	soaphetti Ad...	tuf48228@temole.edu
7	soaphetti Ad...	IAmA@donut.com
8	Lemon Merin...	123@45.6

Result 7 x

f) "OTHER" JOINED WITH WEB_USER some rows, certain columns, sorted.

Query 1 saved_recipes - Table FA22_3308_tuf48228.saved_re... saved_recipes x

Limit to 1000 rows

1 name, user_email FROM FA22_3308_tuf48228.saved_recipes, FA22_3308_tuf48228.web_user where web_user.web_user_id = 1 order by recipe_id;

Result Grid Filter Rows: Export: Wrap Cell Contents: [1A](#)

	recipe_id	recipe_name	user_email
1	1	salmon bacon	tuf48228@temole.edu
2	2	Hollandaise	tuf48228@temole.edu
3	3	Pancakes	tuf48228@temole.edu
4	4	French Onion Soup	tuf48228@temole.edu
5	5	Squash Salad w/ Citronette	tuf48228@temole.edu
6	6	Sauce Tomat	tuf48228@temole.edu
7	7	soachetti Aolio e Olio	tuf48228@temole.edu
8	8	Lemon Merinaue Pie	tuf48228@temole.edu
9	9	Creme brulee	tuf48228@temole.edu
10	10	pizza dough	tuf48228@temole.edu