


1. STUDENT NAME: Patrick Doyle

2. URL to STUDENT WEB SITE:

http://cis-linux2.temple.edu:8080/SP22_3308_tuh15728/index.html#/home



3. user_role TABLE DESIGN

Query 1 user_role - Table user_role - Table x


 Table Name: Schema: **SP22_3308_tuh15728**

Collation: Engine:

Comments:








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"/>	


4. web_user TABLE DESIGN and FOREIGN KEY

 Table Name: Schema: **SP22_3308_tuh**

Collation: Engine:

Comments:

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"/>	
 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"/>	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"/>	


 Table Name:








Collation:


Comments:

Foreign Key Name	Referenced Table	Column
web_user_ibfk_1	`SP22_3308_tuh15728`.`user_role`	

5. "OTHER" TABLE DESIGN and FOREIGN KEY


 Table Name:
 Schema: **SP22_3308_tuh15728**

Column Name	Datatype	PK	NN	UQ	B	UN	ZF	AI	G	Default/Expression
 food_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"/>	
 food_name	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"/>	
 food_img	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
 food_date_ordered	DATE	<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"/>	
 food_rating	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"/>	
 food_description	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
 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"/>	


 Table Name:
 Schema: **SP22_3308_tuh15728**


Foreign Key Name	Referenced Table	Column	Referenced Column
web_user_id	'SP22_3308_tuh15728', 'web_user'	<input type="checkbox"/> food_id	
		<input type="checkbox"/> food_name	
		<input type="checkbox"/> food_img	
		<input type="checkbox"/> food_date_order...	
		<input type="checkbox"/> food_rating	
		<input type="checkbox"/> food_description	
		<input checked="" type="checkbox"/> web_user_id	web_user_id

6. DATA ENTRY ERRORS

a) Error: Duplicate user_role PK

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 `SP22_3308_tuh15728`.`user_role` (`user_role_id`, `user_role_type`) VALUES ('2',  
'owner');  
  
ERROR 1062: 1062: Duplicate entry '2' for key 'PRIMARY'  
SQL Statement:  
INSERT INTO `SP22_3308_tuh15728`.`user_role` (`user_role_id`, `user_role_type`) VALUES ('2',  
'owner')
```

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

```
Operation failed: There was an error while applying the SQL script to the database.  
Executing:  
UPDATE `SP22_3308_tuh15728`.`web_user` SET `user_role_id`='7' WHERE `web_user_id`='12';  
  
ERROR 1452: 1452: Cannot add or update a child row: a foreign key constraint fails  
(`SP22_3308_tuh15728`.`web_user`, CONSTRAINT `web_user_ibfk_1` FOREIGN KEY (`user_role_id`)  
REFERENCES `user_role` (`user_role_id`))  
SQL Statement:  
UPDATE `SP22_3308_tuh15728`.`web_user` SET `user_role_id`='7' WHERE `web_user_id`='12'
```

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

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 `SP22_3308_tuh15728`.`user_role` WHERE `user_role_id`='1';  
  
ERROR 1451: 1451: Cannot delete or update a parent row: a foreign key constraint fails  
(`SP22_3308_tuh15728`.`web_user`, CONSTRAINT `web_user_ibfk_1` FOREIGN KEY (`user_role_id`)  
REFERENCES `user_role` (`user_role_id`))  
SQL Statement:  
DELETE FROM `SP22_3308_tuh15728`.`user_role` WHERE `user_role_id`='1'
```

d) Invalid web_user FK in "other" record

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 `SP22_3308_tuh15728`.`food` SET `web_user_id`='15' WHERE ;
```

ERROR 1064: 1064: You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near " at line 1

SQL Statement:

```
UPDATE `SP22_3308_tuh15728`.`food` SET `web_user_id`='15' WHERE
```

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

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

Message Log

```
Executing:
DELETE FROM `SP22_3308_tuh15728`.`web_user` WHERE `web_user_id`='9';

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
(`SP22_3308_tuh15728`.`food`, 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 `SP22_3308_tuh15728`.`web_user` WHERE `web_user_id`='9'
```

7. SELECT STATEMENTS

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

```
1 • SELECT * FROM SP22_3308_tuh15728.user_role ORDER BY user_role_id;
```

<

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

	user_role_id	user_role_type
	1	cook
	2	server
	3	manager
	4	owner

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

```
1 • SELECT * FROM SP22_3308_tuh15728.web_user ORDER BY web_user_id;
```

<





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

	web_user_id	user_email	user_password	image	membership_fee	birthday	user_role_id
	8	email1	pass1	img1	1.99	0000-00-00	1
	9	email2	pass2	img2	1.99	0000-00-00	2
	10	email3	pass3	img3	1.99	0000-00-00	2
	11	email4	pass4	img4	1.99	0000-00-00	1
	12	email5	pass5	img5	NULL	NULL	1

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

sorted by user role type:





```
1 • SELECT user_role_type, user_email
2 FROM SP22_3308_tuh15728.web_user INNER JOIN SP22_3308_tuh15728.user_role
3 WHERE SP22_3308_tuh15728.web_user.user_role_id = SP22_3308_tuh15728.user_role.user_role_id
4 ORDER BY user_role_type;
```

<   Filter Rows: | Export:  | Wrap Cell Content: 

	user_role_type	user_email
	cook	email4
	cook	email1
	cook	email5
	server	email3
	server	email2

sorted by user email:

```
1 • SELECT user_role_type, user_email
2 FROM SP22_3308_tuh15728.web_user INNER JOIN SP22_3308_tuh15728.user_role
3 WHERE SP22_3308_tuh15728.web_user.user_role_id = SP22_3308_tuh15728.user_role.user_role_id
4 ORDER BY user_email;
```

<   Filter Rows: | Export:  | Wrap Cell Content: 

	user_role_type	user_email
	cook	email1
	server	email2
	server	email3
	cook	email4
	cook	email5

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

```
1 • SELECT * FROM SP22_3308_tuh15728.food ORDER BY food_id;
```

	food_id	food_name	food_img	food_date_ordered	food_rating	food_description	web_user_id
1	1	Burrito	https://www.google.com/url?sa=i&url=https%...	2022-01-23	8	The burrito was very ood.	8
2	2	Tacos	NULL	2022-01-19	6	NULL	9
3	3	Fajita	NULL	2022-01-05	9	NULL	9
4	4	Rice and Beans	NULL	2021-12-17	5	The beans were mushy.	10
5	5	Chicken	NULL	2019-02-22	10	The chicken was so delicious. it melts in your mo...	11
6	6	Cheesesteak	NULL	2020-01-09	7	Okav for a pizza shoo cheesesteak.	12
7	7	French Fries	NULL	2022-02-02	10	Thev were ood. but it is hard to mess up fries.	8
8	8	Cesar Salad	NULL	2021-03-19	3	Thev have ood pizza. Avoid the salads.	9
9	9	Torta	NULL	2022-02-01	10	Where have tortas been all my life? Best breakf...	10
10	10	Tres Leches	NULL	2022-01-08	9	NULL	11
	NULL	NULL	NULL	NULL	NULL	NULL	NULL

food 3 x App

Output

#	Time	Action	Message
✓ 26	20:02:10	SELECT * FROM SP22_3308_tuh15728.food ORDER BY food_id LIMIT 0, 1000	10 row(s) returned

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

```
1 • SELECT food.food_name, web_user.user_email
2 FROM SP22_3308_tuh15728.web_user, SP22_3308_tuh15728.food
3 WHERE web_user.web_user_id = food.web_user_id
4 ORDER BY food.food_name, web_user.user_email;
```

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
	food_name	user_email		
	Burrito	email1		
	Cesar Salad	email2		
	Cheesesteak	email5		
	Chicken	email4		
	Fajita	email2		
	French Fries	email1		
	Rice and Beans	email3		
	Tacos	email2		
	Torta	email3		
	Tres Leches	email4		

Result 7 x

Output

Action Output

#	Time	Action	Message
✓ 29	20:10:58	SELECT food.food_name, web_user.user_email FROM SP22_3308_tuh15728.food INNER JOIN SP22...	50 row(s) returned
✓ 30	20:11:28	SELECT food.food_name, web_user.user_email FROM SP22_3308_tuh15728.web_user INNER JOIN ...	50 row(s) returned
✓ 31	20:12:41	SELECT food.food_name, web_user.user_email FROM SP22_3308_tuh15728.web_user, SP22_3308_t...	10 row(s) returned

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

```
1 • SELECT food.food_name, web_user.user_email
2 FROM SP22_3308_tuh15728.web_user, SP22_3308_tuh15728.food
3 WHERE web_user.web_user_id = food.web_user_id AND web_user.user_email = 'email1'
4 ORDER BY food.food_name, web_user.user_email;
```

<

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

	food_name	user_email
	Burrito	email1
	French Fries	email1

Result 10 x

Output

Action Output ▾

#	Time	Action	Message
✓ 33	20:16:05	SELECT food.food_name, web_user.user_email FROM SP22_3308_tuh15728.web_user, SP22_3308_t...	0 row(s) returned
✓ 34	20:17:02	SELECT food.food_name, web_user.user_email FROM SP22_3308_tuh15728.web_user, SP22_3308_t...	2 row(s) returned