










1. STUDENT NAME
 - a. MICHAEL EWING
2. URL to STUDENT WEB SITE
 - a. http://cis-linux2.temple.edu:8080/FA22_3308_tuj25271/index.html#/home
3. User_role TABLE DESIGN

Table Name: <u>user_role</u>										
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: <u>web_user</u>										
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"/>	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

```

Query 1 x
1 • alter table web_user add foreign key (user_role_id) references user_role (user_role_id);
  
```










5. "OTHER" TABLE DESIGN AND FOREIGN KEY

Query 1 web_user album **album - Table** ×



 Table Name:

Collation:

Comments:

Column Name	Datatype	PK	NN	UQ	B	UN	ZF	AI	G	Default/Expression
 album_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"/>	
 album_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"/>	
 album_cover	VARCHAR(200)	<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"/>	
 album_price	DECIMAL(5,2)	<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
 album_release_date	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
 album_genre	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
 album_author	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
 album_rating	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
 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"/>	

Query 1 web_user album **album - Table** ×


 Table Name:

Collation:

Comments:

Foreign Key Name	Referenced Table
album_ibfk_1	`FA22_3308_tuj25271`.`web_user`

6. DATA ENTRY ERRORS

a. Error: Duplicate user_role PK

Result Grid			
user_role_id	user_role_type		
0	Admin		
2	Member		
2	Viewer		
NULL	NULL		

user_role 1 ×			
Output			
#	Time	Action	Message
1	22:17:34	SELECT * FROM FA22_3308_tuj25271.user_role LIMIT 0, 1000	3 row(s) returned
2	22:17:53	SELECT * FROM FA22_3308_tuj25271.user_role LIMIT 0, 1000	3 row(s) returned
3	22:20:09	alter table web_user add foreign key (user_role_id) references user_role (user_role_id)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0
4	22:21:19	SELECT * FROM FA22_3308_tuj25271.user_role LIMIT 0, 1000	3 row(s) returned
5	22:22:02	UPDATE `FA22_3308_tuj25271`.`user_role` SET `user_role_id`='2' WHERE `user_role_id`='1'	1062: Duplicate entry '2' for key 'PRIMARY'

b. Error: Invalid user_role FK in web_user record

Query 1 web_user album album - Table user_role web_user

1 SELECT * FROM FA22_3308_tu25271.web_user;

web_user_id	user_email	user_password	image	membership_fee	birthday	user_role_id
11	michael.evino@gmail.com	pass1	mike	50.00	2001-01-29	0
12	dora.evino@yahoo.com	pass2	dora	50.00	2003	1
13	william.evino1@gmail.com	pass3	will	50.00	1969-08-07	1
14	tu25271@temple.edu	pass4	tu	50.00	2003	2
15	slint@sporderland.com	pass5	slint	5000.00	1986-05-18	2

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

MySQL Workbench

Query 1 user_role web_user

1 SELECT * FROM FA22_3308_tu25271.user_role;

Result Grid

user_role_id	user_role_type
0	Admin
1	Member

Apply SQL Script to Database

Applying SQL script to the database

The following tables 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 'FA22_3308_tu25271'. 'user_role' WHERE 'user_role_id' = '2';
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
('FA22_3308_tu25271'. 'web_user', 'CONSTRAINT 'web_user_bfk_2' FOREIGN KEY ('user_role_id')
REFERENCES 'user_role' ('user_role_id'))
SQL Statements:
DELETE FROM 'FA22_3308_tu25271'. 'user_role' WHERE 'user_role_id' = '2'

```

Output

#	Time	Action	Message	Duration / Fetch
19	21:56:45	DELETE FROM FA22_3308_tu25271.'user_role' WHERE 'user_role_id' = '2'	1451: Cannot delete or update a parent row: a foreign key constraint fails (FA22_3308_tu25271.'web_user', CONSTRAINT 'web_user_bfk_2'	
20	21:56:45	UPDATE FA22_3308_tu25271.'user_role' SET 'user_role_id' = '2' WHERE 'user_role_id' = '4'	1451: Cannot delete or update a parent row: a foreign key constraint fails (FA22_3308_tu25271.'web_user', CONSTRAINT 'web_user_bfk_2'	
21	21:57:07	DELETE FROM FA22_3308_tu25271.'user_role' WHERE 'user_role_id' = '2'	1451: Cannot delete or update a parent row: a foreign key constraint fails (FA22_3308_tu25271.'web_user', CONSTRAINT 'web_user_bfk_2'	
22	21:57:07	UPDATE FA22_3308_tu25271.'user_role' SET 'user_role_id' = '2' WHERE 'user_role_id' = '4'	1062: Duplicate entry '2' for key 'PRIMARY'	
23	21:58:58	DELETE FROM FA22_3308_tu25271.'user_role' WHERE 'user_role_id' = '2'	1451: Cannot delete or update a parent row: a foreign key constraint fails (FA22_3308_tu25271.'web_user', CONSTRAINT 'web_user_bfk_2'	

d. Invalid web_user FK in "other" record

Query 1 web_user

Limit to 1000 rows

1 • SELECT * FROM FA22_3308_tuj25271.web_user;

Result Grid

user_id	user_email	user_password	image	membership_fee	birthday	user_role_id	album_id
	michaelewing@vmail.com	pass1	mike	50.00	0000-00-00	0	1
	danaewind@yahoo.com	pass2	dana	50.00	NULL	1	1
	william.ewing1@gmail.com	pass3	will	NULL	0000-00-00	1	1
	tuj25271@temple.edu	pass4	tu	50.00	NULL	2	25
	slint@solderland.com	pass5	slint	5000.00	0000-00-00	2	1
NULL		NULL	NULL	NULL	NULL	NULL	NULL

Apply SQL Script to Database

View 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:
UPDATE `FA22_3308_tuj25271`.`web_user` SET `album_id` = '25' WHERE `web_user_id` = '14';

ERROR 1452: 1452: Cannot add or update a child row: a foreign key constraint fails
(`FA22_3308_tuj25271`.`web_user`, CONSTRAINT `web_user_ibfk_3` FOREIGN KEY (`album_id`)
REFERENCES `other` (`album_id`))
SQL Statement:
UPDATE `FA22_3308_tuj25271`.`web_user` SET `album_id` = '25' WHERE `web_user_id` = '14'

```

Hide Logs

Back Finish Cancel

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

Query 1 | other | web_user

Limit to 1000 rows

1 • SELECT * FROM FA22_3308_tuj25271.other;

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

album_id	album_name	album_cover	album_price	album_release_date	album_genre	album_author	album_rating
2	7 Sonos	fuoazi.ida	17	1988-07-01	hardcore punk	Fuoazi	9/10
3	Music has the Right to Children	Music.ida	26	1998-04-20	electronic	Boards of Canada	10/10
4	In Rainbows	Rainbows.ida	36	2007-09-07	art rock	Radiohead	10/10
5	Leaves Turn Inside You	leaves.ida	30	2001-04-17	post-hardcore	Unwound	10/10
6	Hobo Johnson	hobo.ida	15	NULL	NULL	Hobo Johnson	0/10
7	Fake Train	train.ida	24	1993-07-07	noise rock	Unwound	9/10
8	New Plastic Ideas	plastic.ida	26	1994-03-21	noise rock	Unwound	10/10
9	The Future of What	future.ida	26	1995-04-24	noise rock	Unwound	8/10
10	Challenge for a Civilized Society	challenge.ida	28	1998-01-13	post-hardcore	Unwound	9/10
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

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 'FA22_3308_tuj25271'. 'other' WHERE 'album_id' = '1';
 ERROR 1451: 1451: Cannot delete or update a parent row: a foreign key constraint fails
 ('FA22_3308_tuj25271'. 'web_user', CONSTRAINT 'web_user_ibfk_3' FOREIGN KEY ('album_id')
 REFERENCES 'other' ('album_id'))
 SQL Statement:
 DELETE FROM 'FA22_3308_tuj25271'. 'other' WHERE 'album_id' = '1'

Hide Logs

Back Finish Cancel

7. SELECT STATEMENTS

- USER_ROLE: all rows, all columns, sorted by user_role_id

Query 1 user_role user_role x

Limit to 1000 rows

1 • SELECT * FROM FA22_3308_tuj25271.user_role;

Result Grid Filter Rows: Edit: Exp

	user_role_id	user_role_type
	0	Admin
	1	Member
	2	Viewer
	NULL	NULL

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

Query 1 web_user x

Limit to 1000 rows

1 • SELECT * FROM FA22_3308_tuj25271.web_user;

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

	web_user_id	user_email	user_password	image	membership_fee	birthday	user_role_id
	11	michaelwino@gmail.com	pass1	mike	50.00	0000-00-00	0
	12	danaewino@yahoo.com	pass2	dana	50.00	NULL	1
	13	william.ewino1@gmail.com	pass3	will	NULL	0000-00-00	1
	14	tui25271@temple.edu	pass4	tu	50.00	NULL	2
	15	slint@spiderland.com	pass5	slint	5000.00	0000-00-00	2
	NULL	NULL	NULL	NULL	NULL	NULL	NULL

web_user 1 x

Output

Action Output

#	Time	Action	Message
✓ 1	22:58:53	SELECT user_role.user_role_id, web_user.user_email FROM web_user INNER JOIN user_role ON web_user.user_role_id = user_role.user_role_id...	5 row(s) returned
✓ 2	23:01:25	SELECT * FROM FA22_3308_tuj25271.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 user_role web_user x user_role web_user

```

1 • SELECT user_role.user_role_id, web_user.user_email
2 FROM web_user
3 INNER JOIN user_role ON web_user.user_role_id = user_role.user_role_id;

```

Result Grid

user_role_id	user_email
0	michaelwin@vmail.com
1	danaewino@yahoo.com
1	william.ewino1@gmail.com
2	tui25271@temple.edu

Result 6 x

Output

Action Output

#	Time	Action	Message
1	22:58:53	SELECT user_role.user_role_id, web_user.user_email FROM web_user INNER JOIN user_role ON web_user.user_role_id = user_role.user_role_id...	5 row(s) returned

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

Query 1 web_user album x

```

1 • SELECT * FROM FA22_3308_tuj25271.album;

```

Result Grid

album_id	album_name	album_cover	album_price	album_release_date	album_genre	album_author	album_rating	web_user_id
1	Soderland	slint.100	30.00	1991-03-27	post-rock	Slint	10/10	11
2	7 Sonos	fuoazi.100	17.00	1988-07-01	hardcore punk	Fuoazi	9/10	11
3	Music has the Right to Children	Music.100	26.00	1998-04-20	electronic	Boards of Canada	10/10	12
4	In Rainbows	Rainbows.100	36.00	2007-09-07	art rock	Radiohead	10/10	12
5	Leaves Turn Inside You	leaves.100	30.00	2001-04-17	post-hardcore	Unwound	10/10	13
7	Fake Train	train.100	24.00	1993-07-07	noise rock	Unwound	9/10	14
8	New Plastic Ideas	plastic.100	26.00	1994-03-21	noise rock	Unwound	10/10	14
9	The Future of What	future.100	26.00	1995-04-24	noise rock	Unwound	8/10	15
10	Challenge for a Civilized Society	challenge.100	28.00	1998-01-13	post-hardcore	Unwound	9/10	15
14	Hobo Johnson	hobo.100	NULL	NULL	NULL	Hobo Johnson	0/10	15
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

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

Query 1 user_role web_user other

```

1 • SELECT web_user.user_email, other.album_id, other.album_name, other.album_cover, other.album_price, other.album_release_date, other.album_genre, other.album_author, other.album_rating
2 FROM other
3 INNER JOIN web_user ON other.album_id = web_user.album_id
4 order by other.album_id

```

Result Grid

user_email	album_id	album_name	album_cover	album_price	album_release_date	album_genre	album_author	album_rating
michaelwin@vmail.com	1	Soderland	slint.100	30	1991-03-27	post-rock	Slint	10/10
danaewino@yahoo.com	2	7 Sonos	fuoazi.100	17	1988-07-01	hardcore punk	Fuoazi	9/10
william.ewino1@gmail.com	3	Music has th...	Music.100	26	1998-04-20	electronic	Boards of Canada	10/10
tui25271@temple.edu	4	In Rainbows	Rainbows.100	36	2007-09-07	art rock	Radiohead	10/10
slint@soderland.com	5	Leaves Turn ...	leaves.100	30	2001-04-17	post-hardcore	Unwound	10/10

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

Query 1 x user_role web_user other