1. STUDENT NAME

Kiran Nixon

2. URL to STUDENT WEB SITE

http://cis-linux2.temple.edu:8080/fa21_3308_tuj83407/index.html#/home

3. user_role TABLE DESIGN

Table Name:	user_role										Schema: fa21_3308_tuj83407	

Column Name	Datatype	PK	NN	UQ	B	UN	ZF	AI	G	Default/Expression
user_role_id	INT(11)	☑	☑	☑	☐	☐	☐	☐	☐	
user_role_type	VARCHAR(10)	☐	☑	☑	☐	☐	☐	☐	☐	
		☐	☐	☐	☐	☐	☐	☐	☐	

4. web_user TABLE DESIGN and FOREIGN KEY

Query 1	web_user - Table ✕	user_role - Table

Table Name:	web_user	Schema: fa21_3308_tuj83407

Column Name	Datatype	PK	NN	UQ	B	UN	ZF	AI	G	Default/Expression
web_user_id	INT(11)	☑	☑	☐	☐	☐	☐	☑	☐	
user_email	VARCHAR(45)	☐	☑	☑	☐	☐	☐	☐	☐	
user_password	VARCHAR(45)	☐	☑	☐	☐	☐	☐	☐	☐	
image	VARCHAR(300)	☐	☐	☐	☐	☐	☐	☐	☐	NULL
membership_fee	DECIMAL(8,2)	☐	☐	☐	☐	☐	☐	☐	☐	NULL
birthday	DATE	☐	☐	☐	☐	☐	☐	☐	☐	NULL
user_role_id	INT(11)	☐	☑	☐	☐	☐	☐	☐	☐	
		☐	☐	☐	☐	☐	☐	☐	☐	

5. "OTHER" TABLE DESIGN and FOREIGN KEY

| Query 1 | web_user - Table | web_user | SQL File 3* | post - Table × | post |

Table Name: post   Schema: **fa21_3308_tuj83407**

Collation: latin1 - default collation   Engine: InnoDB

Comments:

Column Name	Datatype	PK	NN	UQ	B	UN	ZF	AI	G	Default/Expression
post_id	INT(10)	☑	☑	☐	☐	☐	☐	☑	☐	
image_file	VARCHAR(200)	☐	☑	☑	☐	☐	☐	☐	☐	
photo_date	VARCHAR(45)	☐	☑	☐	☐	☐	☐	☐	☐	
description	VARCHAR(200)	☐	☐	☐	☐	☐	☐	☐	☐	NULL
comment_id	INT(10)	☐	☐	☐	☐	☐	☐	☐	☐	NULL
vehicle_name	VARCHAR(45)	☐	☐	☐	☐	☐	☐	☐	☐	NULL
post_rating	INT(10)	☐	☐	☐	☐	☐	☐	☐	☐	NULL
web_user_id	INT(11)	☐	☑	☐	☐	☐	☐	☐	☐	
		☐	☐	☐	☐	☐	☐	☐	☐	

Table Name: post   Schema: **fa21_3308_tuj83407**

Collation: latin1 - default collation   Engine: InnoDB

Comments:

Foreign Key Name	Referenced Table		Column	Refe	Foreign Key Options
post_ibfk_1	`fa21_3308_tuj83407`.`web_user`				On Update:
					On Delete:

15 16:48:33 alter table post add foreign key (web_user_id) references web_user (web_user_id)   0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0   0.062 sec

6. DATA ENTRY ERRORS
a) Error: Duplicate user_role PK

Message Log

Operation failed: There was an error while applying the SQL script to the database.
Executing:
INSERT INTO `fa21_3308_tuj83407`.`user_role` (`user_role_id`, `user_role_type`) VALUES ('2',
'MEMBERP');

ERROR 1062: 1062: Duplicate entry '2' for key 'PRIMARY'
SQL Statement:
INSERT INTO `fa21_3308_tuj83407`.`user_role` (`user_role_id`, `user_role_type`) VALUES ('2',
'MEMBERP')

b) Error: Invalid user_role FK in web_user record

Message Log

Operation failed: There was an error while applying the SQL script to the database.
Executing:
INSERT INTO `fa21_3308_tuj83407`.`web_user` (`user_email`, `user_password`, `user_role_id`)
VALUES ('fake@gmail.com', 'abc123', '9');

ERROR 1452: 1452: Cannot add or update a child row: a foreign key constraint fails
(`fa21_3308_tuj83407`.`web_user`, CONSTRAINT `web_user_ibfk_1` FOREIGN KEY (`user_role_id`)
REFERENCES `user_role` (`user_role_id`))
SQL Statement:
INSERT INTO `fa21_3308_tuj83407`.`web_user` (`user_email`, `user_password`, `user_role_id`)
VALUES ('fake@gmail.com', 'abc123', '9')

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

Message Log

Executing:
DELETE FROM `fa21_3308_tuj83407`.`user_role` WHERE (`user_role_id` = '1');

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_tuj83407`.`web_user`, CONSTRAINT `web_user_ibfk_1` FOREIGN KEY (`user_role_id`)
REFERENCES `user_role` (`user_role_id`))
SQL Statement:
DELETE FROM `fa21_3308_tuj83407`.`user_role` WHERE (`user_role_id` = '1')

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

```
Executing:
INSERT INTO `fa21_3308_tuj83407`.`post` (`post_id`, `image_file`, `photo_date`, `web_user_id`)
VALUES ('11', 'pics/abc123', '09/09/2009', '9');

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_tuj83407`.`post`, CONSTRAINT `post_ibfk_1` FOREIGN KEY (`web_user_id`)
REFERENCES `web_user` (`web_user_id`))
SQL Statement:
INSERT INTO `fa21_3308_tuj83407`.`post` (`post_id`, `image_file`, `photo_date`, `web_user_id`)
VALUES ('11', 'pics/abc123', '09/09/2009', '9')
```

⊗ 51 17:37:22 INSERT INTO `fa21_3308_tuj83407`.`post` (`post_id`, `image_file`, `photo_date`, `web_user_id`) V... 1452: Cannot add or update a child row: a foreign key constraint fails (`fa21...

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

```
Executing:
DELETE FROM `fa21_3308_tuj83407`.`web_user` WHERE `web_user_id`='15';
DELETE FROM `fa21_3308_tuj83407`.`web_user` WHERE `web_user_id`='7';

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_tuj83407`.`post`, CONSTRAINT `post_ibfk_1` FOREIGN KEY (`web_user_id`)
REFERENCES `web_user` (`web_user_id`))
SQL Statement:
DELETE FROM `fa21_3308_tuj83407`.`web_user` WHERE `web_user_id`='7'
```

⊗ 52 17:38:09 DELETE FROM `fa21_3308_tuj83407`.`web_user` WHERE `web_user_id`='7'   1451: Cannot delete or update a parent row: a foreign key constraint fails (`f...

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

```
1 •    SELECT * FROM fa21_3308_tuj83407.user_role;
```

	Result Grid	Filter Rows:	Edit:	Export

	user_role_id	user_role_type
▶	1	ADMIN
	2	MEMBER
	3	VIEW
*	NULL	NULL

✅ 7 14:04:15 SELECT * FROM fa21_3308_tuj83407.user_role LIMIT 0, 1000   3 row(s) returned

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

web_user_id	user_email	user_password	image	membership_fee	birthday	user_role_id
1	realuser@temple...	qwerty	userpfp	10.00	2000-0...	1
2	abc@gmail.com	ytrewq	NULL	NULL	NULL	2
3	def@hotmail.com	qwerty123	NULL	NULL	NULL	3
4	ghi@outlook.com	ytrewq321	NULL	NULL	NULL	1
5	jkl@gmail.com	abcdef123	NULL	NULL	NULL	2
6	mno@gmail.com	qwertyuiop123	NULL	NULL	NULL	3
7	pqr@gmail.com	qwerty963852	NULL	NULL	NULL	1
NULL	NULL	NULL	NULL	NULL	NULL	NULL

8 14:07:13 SELECT * FROM fa21_3308_tuj83407.web_user LIMIT 0, 1000   0 row(s) returned   0.000 sec / 0.000 sec

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

```
Query 1     user_role - Table     web_user - Table     user_role     web_user  ×

       Limit to 1000 rows

1    SELECT user_role.user_role_type, web_user.user_email
2    from web_user, user_role
3    WHERE web_user.user_role_id = user_role.user_role_id
4    ORDER BY user_role_type, user_email;
```

user_role_type	user_email
ADMIN	ghi@outlook.com
ADMIN	pqr@gmail.com
ADMIN	realuser@temple...
MEMBER	abc@gmail.com
MEMBER	jkl@gmail.com
VIEW	def@hotmail.com
VIEW	mno@gmail.com

24 14:49:23 SELECT user_role.user_role_type, web_user.user_email from web_user, user_rol...   7 row(s) returned

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

```
Query 1     web_user - Table     web_user     SQL File 3*     post - Table     post  ×

       Limit to 1000 rows

1 ●  SELECT *
2    FROM fa21_3308_tuj83407.post
3    ORDER BY post_id;
4
```

post_id	image_file	photo_date	description	comment_id	vehicle_name	post_rating	web_user_id
1	pics/pic1	09/19/2021	cars and coffee with the crew	1	Kia Stinger	5	1
2	pics/corvette.png	09/18/2021	NULL	NULL	NULL	NULL	2
3	pics/mpact.jpeg	09/17/2021	NULL	NULL	NULL	NULL	3
4	pics/turn14.jpeg	08/15/2021	NULL	NULL	NULL	NULL	4
5	pics/e46.jpg	07/05/2020	NULL	NULL	NULL	NULL	5
6	pics/xvz.jpg	07/06/2021	NULL	NULL	NULL	NULL	6
7	pics/pic2.jpg	02/05/2020	NULL	NULL	NULL	NULL	7
8	pcis/abc2/jpeg	06/15/2020	NULL	NULL	NULL	NULL	1
9	pics/abc3.jpeg	06/15/2020	NULL	NULL	NULL	NULL	2
10	pics/abc4.jpeg	05/05/2019	NULL	NULL	NULL	NULL	3
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

49 17:30:10 SELECT * FROM fa21_3308_tuj83407.post ORDER BY post_id LIMIT 0, 1000   10 row(s) returned

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

```
1 ●    SELECT image_file, user_email
2      FROM fa21_3308_tuj83407.post, web_user
3      WHERE (post.web_user_id = web_user.web_user_id)
4      ORDER BY image_file, user_email;
5
```

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

image_file	user_email
pcis/abc2.jpeg	realuser@temple.edu
pics/abc3.jpeg	abc@gmail.com
pics/abc4.jpeg	def@hotmail.com
pics/corvette.png	abc@gmail.com
pics/e46.jpg	jkl@gmail.com
pics/mpact.jpeg	def@hotmail.com
pics/pic1	realuser@temple.edu
pics/pic2.jpg	pqr@gmail.com
pics/turn14.jpeg	ghi@outlook.com
pics/xyz.jpg	mno@gmail.com

47 17:29:13 SELECT image_file, user_email FROM fa21_3308_tuj83407.post, web_user WHERE (post.web_u... 10 row(s) returned

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

```
2      FROM fa21_3308_tuj83407.post, web_user
3      WHERE (post.web_user_id = web_user.web_user_id) AND post.post_id < 5
4      ORDER BY image_file, user_email;
5
```

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

image_file	user_email
pics/corvette.png	abc@gmail.com
pics/mpact.jpeg	def@hotmail.com
pics/pic1	realuser@temple.edu
pics/turn14.jpeg	ghi@outlook.com

46 17:25:50 SELECT image_file, user_email FROM fa21_3308_tuj83407.post, web_user WHERE (post.web_u... 4 row(s) returned