








1. STUDENT NAME

Sophie Mettille








































































2. URL to STUDENT WEB SITE

https://cis-linux2.temple.edu/tomcat10/sp25_3308_tuo36491/index.html

3. user_role TABLE DESIGN

Name: <input type="text" value="user_role"/>		Schema: sp25_3308_tuo36491									
Column	Datatype	PK	NN	UQ	B...	UN	ZF	AI	G	Default / Expression	
 user_role_id	INT(11)				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
 user_role_type	VARCHAR(10)	<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

Name: web_user		Schema: sp25_3308_tuo36491									
Column	Datatype	PK	NN	UQ	B...	UN	ZF	AI	G	Default / Expression	
 web_user_id	INT(11)										
 user_email	VARCHAR(45)										
 user_password	VARCHAR(45)										
 user_image	VARCHAR(500)										
 membership...	DECIMAL(8,2)										
 birthday	DATE										
 user_role_id	INT(11)										
<click to edit>											

Query 1

user_role - Table

web_user - Table

Name: web_user

Schema: sp25_3308_tuo36491

Foreign Key

Referenced Table

web_user_ibfk_1

'sp25_3308_tuo36491...'

<click to edit>

Foreign key details 'web_user_ibfk_1'

Column	Referenced Column
<input type="checkbox"/> web_user_id	
<input type="checkbox"/> user_email	
<input type="checkbox"/> user_password	
<input type="checkbox"/> user_image	
<input type="checkbox"/> membership_fee	
<input type="checkbox"/> birthday	
<input checked="" type="checkbox"/> user_role_id	user_role_id

On Update: RESTRICT

On Delete: RESTRICT

Comment:

☐ Skip on SQL generation

Columns

Indexes

Foreign Keys

Triggers

Partitioning

Options

Apply

Revert

5. Other table design and foreign key

Column	Datatype	PK	NN	UQ	B...	UN	ZF	AI	G	Default / Expression
reviews_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_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"/>	
cafe_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"/>	
image_url	VARCHAR(500)	<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"/>	
order_name	TEXT	<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
price_order	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
ambiance_sc...	INT(5)	<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_comme...	TEXT	<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"/>	
<click to edit>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Column details 'reviews_id'

Column Name: reviews_id

Charset/Collation: Default Charset

Comments:

Datatype: INT(11)

Default

Storage: VIRTUAL

Not NULL

Unique

ZeroFill

Primary Key

Unsigned

Generated

Auto Increment

Foreign Key

reviews_ibfk_1

<click to edit>

Foreign key details 'reviews_ibfk_1'

Column	Referenced Column
<input type="checkbox"/> reviews_id	
<input type="checkbox"/> user_name	
<input type="checkbox"/> cafe_name	
<input type="checkbox"/> image_url	
<input type="checkbox"/> order_name	
<input type="checkbox"/> price_order	
<input type="checkbox"/> ambiance_score	
<input type="checkbox"/> user_comments	
<input checked="" type="checkbox"/> web_user_id	web_user_id

On Update: RESTRICT

On Delete: RESTRICT

Comment:

☐ Skip on SQL generation

Columns

Indexes

Foreign Keys

Triggers

Partitioning

Options

Apply

Revert

Action Output

	Time	Action	Response	Duration / Fetch Time
9	15:05:28	Apply changes to reviews	Error 1054: Unknown column '' in 'reviews' SQL Stat...	
10	15:06:28	Apply changes to reviews	Changes applied	
11	15:08:21	alter table reviews add foreign key (web...	0 row(s) affected Records: 0 Duplicates: 0 Warning...	0.068 sec
12	15:08:36	Apply changes to reviews	No changes detected	

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

```
Executing:
INSERT INTO `sp25_3308_tuo36491`.`user_role` (`user_role_id`, `user_role_type`) VALUES ('2', 'MEMBER');

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:
INSERT INTO `sp25_3308_tuo36491`.`user_role` (`user_role_id`, `user_role_type`) VALUES ('2', 'MEMBER')
```

b) Error: Invalid user_role FK in web_user 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 `sp25_3308_tuo36491`.`web_user` (`user_email`, `user_password`) VALUES ('chloe@gmail.com', 'smile');

Operation failed: There was an error while applying the SQL script to the database.
ERROR 1364: 1364: Field 'user_role_id' doesn't have a default value
SQL Statement:
INSERT INTO `sp25_3308_tuo36491`.`web_user` (`user_email`, `user_password`) VALUES ('chloe@gmail.com', 'smile')
```

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

```
Operation failed: There was an error while applying the SQL script to the database.
Executing:
DELETE FROM `sp25_3308_tuo36491`.`user_role` WHERE (`user_role_id` = '3');

ERROR 1451: 1451: Cannot delete or update a parent row: a foreign key constraint fails
(`sp25_3308_tuo36491`.`web_user`, CONSTRAINT `web_user_ibfk_1` FOREIGN KEY (`user_role_id`)
REFERENCES `user_role` (`user_role_id`))
SQL Statement:
DELETE FROM `sp25_3308_tuo36491`.`user_role` WHERE (`user_role_id` = '3')
```

d) invalid web_user fk in 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

```
VALUES ('ryan', 'einxr', 'https://einxrcoffee.com/wp-content/uploads/2023/01/ryan.jpg?v=1613317820', 'water', '0.00', '4', 'I dont like coffee but wii was good', '5');
INSERT INTO `sp25_3308_tuo36491`.`reviews` (`user_name`, `cafe_name`, `image_url`, `order_name`, `price_order`, `ambiance_score`, `web_user_id`) VALUES ('tristan', 'richies', 'https://media-cdn.tripadvisor.com/media/photo-s/21/52/12/99/richie-s-cafe-interior.jpg', 'panini and matcha', '17.50', '5', '1');
INSERT INTO `sp25_3308_tuo36491`.`reviews` (`user_name`, `cafe_name`, `image_url`, `order_name`, `price_order`, `ambiance_score`, `user_comments`, `web_user_id`) VALUES ('hannah', 'good karma', 'https://i0.wp.com/billypenn.com/wp-content/uploads/2023/01/goodkarmacafe-01.jpg?fit=3000%2C1996&ssl=1', 'latte with extra caramel', '5.00', '1', 'bad ambience tbh, wifi was bad!', '1');
INSERT INTO `sp25_3308_tuo36491`.`reviews` (`user_name`, `cafe_name`, `image_url`, `order_name`, `price_order`, `ambiance_score`, `web_user_id`) VALUES ('carley', 'starbucks', 'https://studentcenter.temple.edu/sites/studentcenter/files/image/20170921_Student%20_Center_002-Web%20Res%20JPEG%20150%20DPI.jpg', 'pink drink', '8.00', '2', '7');
INSERT INTO `sp25_3308_tuo36491`.`reviews` (`user_name`, `cafe_name`, `image_url`, `order_name`, `price_order`, `ambiance_score`, `user_comments`, `web_user_id`) VALUES ('smith', 'warehouse', 'https://cdn.comer.inc/place-photo/AWYs27wegADy57SGJH2fPX8eaWGI2X4fgWkL3uWcq4XDERjblX5q4MMui5d5tx1yPktjbDqJZUL8pUg2hpek1VV6uBGP_AgaYICtdWLEjYioIKtS6R1aTOUYBVMEnGBImRjw3e5Bymcg6zvH5ktqmKfIa_eOzd2DIL2L4FQLuyoE2Xp8wqG.jpeg', 'hot chocolate', '4.00', '5', 'big area with good wifi', '10');

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 (`sp25_3308_tuo36491`.`reviews`, CONSTRAINT `reviews_ibfk_1` FOREIGN KEY (`web_user_id`) REFERENCES `web_user` (`web_user_id`))
SQL Statement:
INSERT INTO `sp25_3308_tuo36491`.`reviews` (`user_name`, `cafe_name`, `image_url`, `order_name`, `price_order`, `ambiance_score`, `user_comments`, `web_user_id`) VALUES ('smith', 'warehouse', 'https://cdn.comer.inc/place-photo/AWYs27wegADy57SGJH2fPX8eaWGI2X4fgWkL3uWcq4XDERjblX5q4MMui5d5tx1yPktjbDqJZUL8pUg2hpek1VV6uBGP_AgaYICtdWLEjYioIKtS6R1aTOUYBVMEnGBImRjw3e5Bymcg6zvH5ktqmKfIa_eOzd2DIL2L4FQLuyoE2Xp8wqG.jpeg', 'hot chocolate', '4.00', '5', 'big area with good wifi', '10')
```

Hide Logs

Go Back

Close

e) error trying to delete a web_user record thats been referenced by an other record

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

Message Log

```
Executing:
DELETE FROM `sp25_3308_tuo36491`.`web_user` WHERE (`web_user_id` = '8');

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
(`sp25_3308_tuo36491`.`reviews`, CONSTRAINT `reviews_ibfk_1` FOREIGN KEY (`web_user_id`) REFERENCES `web_user` (`web_user_id`))
SQL Statement:
DELETE FROM `sp25_3308_tuo36491`.`web_user` WHERE (`web_user_id` = '8')
```

6. SELECT STATEMENTS

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

Action Output	Time	Action	Response	Duration / Fetch Time
8	12:45:57	INSERT INTO `sp25_3308_tuo36491`.`user_role` (`user_role_id`, `user_role_type`) VALUES ('2', 'MEMBER')	1062: Duplicate entry '2' for key 'PRIMARY'	
9	12:50:59	INSERT INTO `sp25_3308_tuo36491`.`user_role` (`user_role_id`, `user_role_type`) VALUES (NULL, NULL)	1048: Column 'user_role_id' cannot be null	
10	12:56:11	SELECT * from sp25_3308_tuo36491.user_role order by user_role_id LIMIT 0, 1000	3 row(s) returned	0.0032 sec / 0.00031...

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

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

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

[illegible]

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

```
1  eb_user.user_email from reviews inner join web_user on reviews.web_user_id = web_user.web_user_id orde
```

The screenshot displays a database management interface. At the top, a query is partially visible: `eb_user.user_email from reviews inner join web_user on reviews.web_user_id = web_user.web_user_id orde`. Below the query, the 'Result Grid' shows a table with two columns: 'user_name' and 'user_email'. The table contains 11 rows of data, including users like abby, alexia, carley, chloem, hannah, julia, lianna, ryan, smith, sophie m, and tristan. To the right of the result grid is a sidebar with icons for 'Result Grid', 'Form Editor', 'Field Types', 'Query Stats', and 'Execution Plan'. Below the result grid, the 'Action Output' section shows a log of database actions. The log includes a table with columns: 'Time', 'Action', 'Response', and 'Duration / Fetch Time'. It shows a sequence of 'select user_...' actions, some of which resulted in 'Error Code: 1054. Unknown column' messages.

	Time	Action	Response	Duration / Fetch Time
23	15:51:04	select revie...	25 row(s) returned	0.013 sec / 0.000006...
24	15:55:24	select user_...	55 row(s) returned	0.015 sec / 0.000008...
25	15:57:07	select user_...	55 row(s) returned	0.013 sec / 0.000010...
26	15:59:36	select user_...	55 row(s) returned	0.012 sec / 0.000009...
27	16:01:57	select user_...	55 row(s) returned	0.012 sec / 0.000012...
28	16:02:56	select user_...	Error Code: 1054. Unknown column 'user_email' in 'SELECT'	0.013 sec
29	16:03:07	select user_...	Error Code: 1054. Unknown column 'web_user.user_email' in 'SELECT'	0.013 sec
30	16:03:15	select user_...	55 row(s) returned	0.013 sec / 0.000010...
31	16:04:51	select user_...	55 row(s) returned	0.012 sec / 0.000010...
32	16:07:42	select user_...	55 row(s) returned	0.013 sec / 0.000011...
33	16:08:22	select user_...	11 row(s) returned	0.011 sec / 0.000006...

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

```
1 d = web_user.web_user_id where reviews.web_user_id > 5 order by user_name, user_email
```

[illegible]