


- ### 3. user_role TABLE DESIGN

4. web_user TABLE DESIGN and FOREIGN KEY

[illegible]








5. "OTHER" TABLE DESIGN and FOREIGN KEY

Query 1
user_role
web_user
formula_file - Table
web_user - Table


Table Name:
Schema:

Charset/Collation:
Engine:

Comments:

Column Name	Datatype	PK	NN	UQ	B	UN	ZF	AI	G
 formula_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"/>
 service_type	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"/>
 service_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"/>
 service_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"/>
 service_charge	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"/>
 formula	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"/>
 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"/>

Column Name:
Data Type:

Charset/Collation:
Default:

Comments:

Storage:
☐ Virtual
☐ Stored

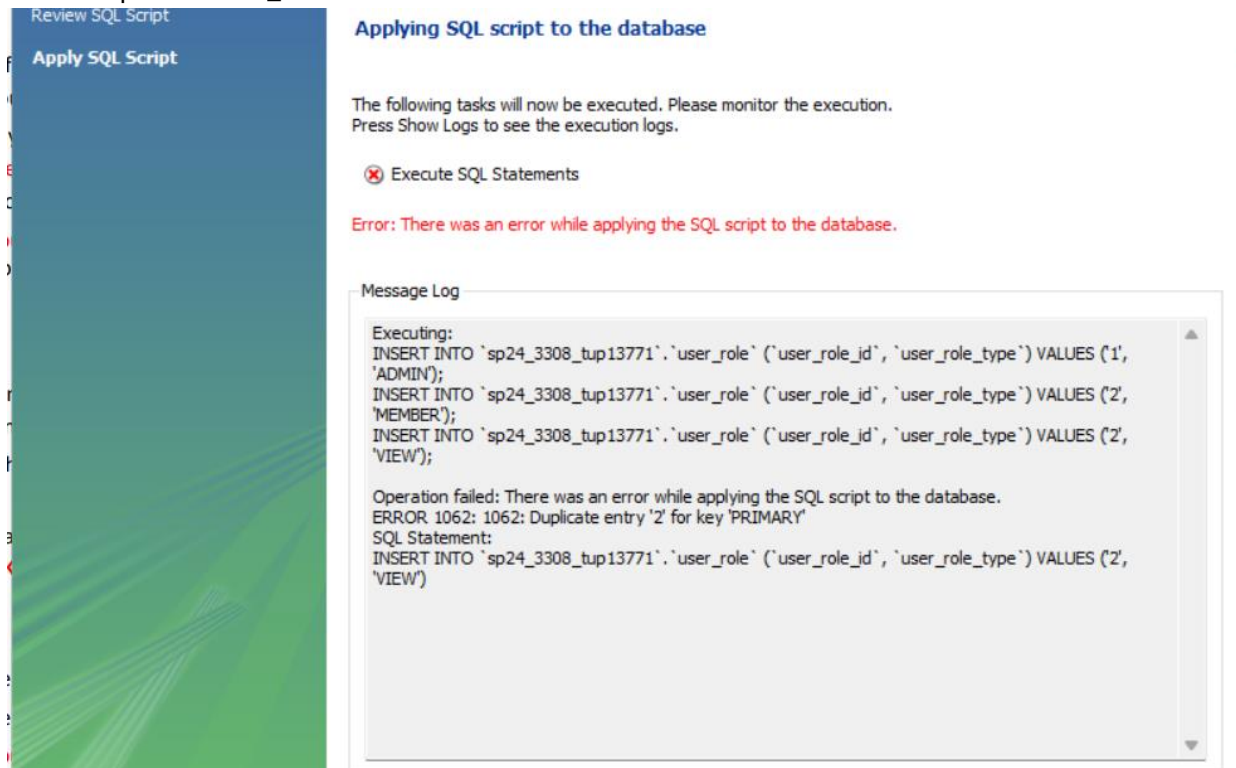
☒ Primary Key
☒ Not Null
☐ Unique

☐ Binary
☐ Unsigned
☐ Zero Fill

☒ Auto Increment
☐ Generated

6. DATA ENTRY ERRORS

a) Error: Duplicate user_role PK

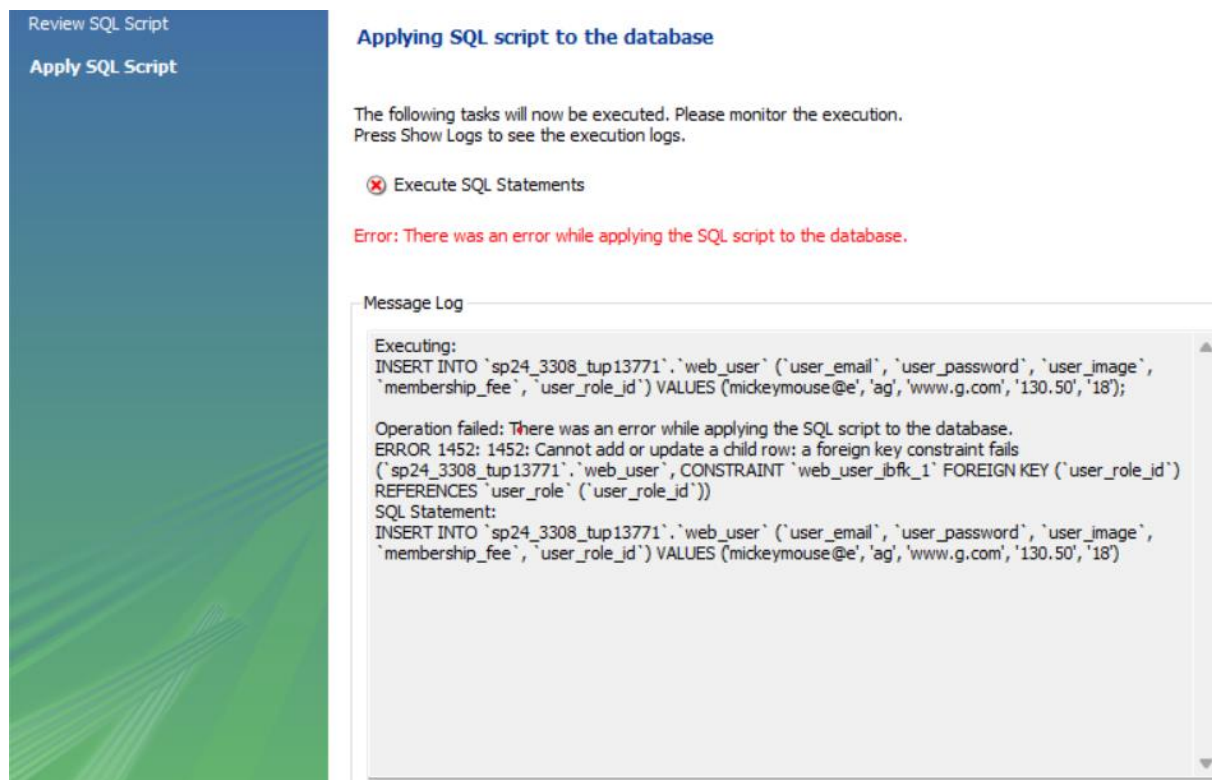


The screenshot shows a SQL script execution window. On the left, a sidebar contains 'Review SQL Script' and 'Apply SQL Script' buttons. The main area is titled 'Applying SQL script to the database'. It contains a message: 'The following tasks will now be executed. Please monitor the execution. Press Show Logs to see the execution logs.' Below this is a red 'X' icon and the text 'Execute SQL Statements'. A red error message states: 'Error: There was an error while applying the SQL script to the database.' At the bottom, a 'Message Log' box shows the following details:

```
Executing:
INSERT INTO `sp24_3308_tup13771`.`user_role` (`user_role_id`, `user_role_type`) VALUES ('1', 'ADMIN');
INSERT INTO `sp24_3308_tup13771`.`user_role` (`user_role_id`, `user_role_type`) VALUES ('2', 'MEMBER');
INSERT INTO `sp24_3308_tup13771`.`user_role` (`user_role_id`, `user_role_type`) VALUES ('2', 'VIEW');

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 `sp24_3308_tup13771`.`user_role` (`user_role_id`, `user_role_type`) VALUES ('2', 'VIEW')
```

b) Error: Invalid user_role FK in web_user record



The screenshot shows a SQL script execution window. On the left, a sidebar contains 'Review SQL Script' and 'Apply SQL Script' buttons. The main area is titled 'Applying SQL script to the database'. It contains a message: 'The following tasks will now be executed. Please monitor the execution. Press Show Logs to see the execution logs.' Below this is a red 'X' icon and the text 'Execute SQL Statements'. A red error message states: 'Error: There was an error while applying the SQL script to the database.' At the bottom, a 'Message Log' box shows the following details:

```
Executing:
INSERT INTO `sp24_3308_tup13771`.`web_user` (`user_email`, `user_password`, `user_image`, `membership_fee`, `user_role_id`) VALUES ('mickeymouse@e', 'ag', 'www.g.com', '130.50', '18');


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
(`sp24_3308_tup13771`.`web_user`, CONSTRAINT `web_user_ibfk_1` FOREIGN KEY (`user_role_id`)
REFERENCES `user_role` (`user_role_id`))
SQL Statement:
INSERT INTO `sp24_3308_tup13771`.`web_user` (`user_email`, `user_password`, `user_image`, `membership_fee`, `user_role_id`) VALUES ('mickeymouse@e', 'ag', 'www.g.com', '130.50', '18')
```

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


Operation failed: There was an error while applying the SQL script to the database.
Executing:
DELETE FROM `sp24_3308_tup13771`.`user_role` WHERE (`user_role_id` = '1');

ERROR 1451: 1451: Cannot delete or update a parent row: a foreign key constraint fails
(`sp24_3308_tup13771`.`web_user`, CONSTRAINT `web_user_ibfk_1` FOREIGN KEY (`user_role_id`) REFERENCES `user_role` (`user_role_id`))
SQL Statement:
DELETE FROM `sp24_3308_tup13771`.`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:
UPDATE `sp24_3308_tup13771`.`formula_file` SET `web_user_id` = '11' WHERE (`formula_id` = '3');

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
(`sp24_3308_tup13771`.`formula_file`, CONSTRAINT `formula_file_ibfk_1` FOREIGN KEY
(`web_user_id`) REFERENCES `web_user` (`web_user_id`))
SQL Statement:
UPDATE `sp24_3308_tup13771`.`formula_file` SET `web_user_id` = '11' WHERE (`formula_id` = '3')
```

- 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 `sp24_3308_tup13771`.`web_user` WHERE (`web_user_id` = '5');  
  
ERROR 1451: 1451: Cannot delete or update a parent row: a foreign key constraint fails  
(`sp24_3308_tup13771`.`formula_file`, CONSTRAINT `formula_file_ibfk_1` FOREIGN KEY  
(`web_user_id`) REFERENCES `web_user` (`web_user_id`))  
SQL Statement:  
DELETE FROM `sp24_3308_tup13771`.`web_user` WHERE (`web_user_id` = '5')
```

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 result grid. The query editor contains the following SQL statement:

```
1 • SELECT * FROM sp24_3308_tup13771.user_role;
```

The result grid displays the following data:

user_role_id	user_role_type
1	ADMIN
2	MEMBER
3	VIEW
NULL	NULL

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

The screenshot shows a database management tool interface. At the top, there are tabs for 'web_user', 'web_user - Table', 'web_user - Table', 'web_user', 'web_user', and 'user_role'. Below the tabs is a toolbar with various icons. The main area displays a SQL query: `1 • SELECT * FROM sp24_3308_tup13771.web_user;`. Below the query is a 'Result Grid' showing the results of the query. The grid has columns: 'web_user_id', 'user_email', 'user_password', 'membership_fee', 'user_image', 'birthday', and 'user_role_id'. The results are sorted by 'web_user_id'.

web_user_id	user_email	user_password	membership_fee	user_image	birthday	user_role_id
1	tup13771...	spaghetti	NULL	www.hello...	2007-1...	1
5	mickeymo...	ad	150.60	google.com	1990-1...	2
6	mikeg824...	dfgj	NULL	NULL	NULL	3
7	joshua12...	ajk	NULL	NULL	NULL	1
8	solomon4...	sd	NULL	NULL	NULL	2
9	buddy12	gh	NULL	NULL	1998-0...	2
10	tup123@t	iuy	134.78	www.uno...	2003-0...	2

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

The screenshot shows a database management tool interface. At the top, there are tabs for 'web_user', 'web_user - Table', 'web_user - Table', 'web_user', 'web_user', and 'user_role'. Below the tabs is a toolbar with various icons. The main area displays a SQL query: `1 • SELECT user_role_type, 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;
5`. Below the query is a 'Result Grid' showing the results of the query. The grid has columns: 'user_role_type' and 'user_email'. The results are sorted by 'user_role_type'.

user_role_type	user_email
ADMIN	joshua123@t
ADMIN	tup13771@temple.e
MEMBER	buddy12
MEMBER	mickeymouse@e
MEMBER	solomon43@g
MEMBER	tup123@t
VIEW	mikeg824@gmail

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

```
1 • SELECT * FROM formula_file;
```

Result Grid							Filter Rows:	Edit:	Export/Import:	Wrap Cell Content:
formula_id	service_type	service_img	service_date	service_charge	formula	web_user_id				
1	Single Process	https://images.app.goo.gl/6kTUJpAWKpdwrJgdA	2024-01-08	65.00	10A 30vol	1				
2	Single Process Partial Foil	https://images.app.goo.gl/GUVkPZXD15VP41QW7	2024-01-31	150.75	7N, 20vol, blondor, 15vol	1				
3	Single Process Full Foil	https://images.app.goo.gl/vKDX5KSAfVTfSHmV8	NULL	400.00	6N, 20 vol	5				
4	Partial Foil	https://images.app.goo.gl/8DUKmdbhr8ZJXkX56	2023-12-20	125.00	blondor 20 vol, Lowlight, 8/71	9				
5	Full Foil	https://images.app.goo.gl/VGHY7XXcBfzPciVW9	2023-10-31	350.00	blondor, 20 vol	10				
6	Face Frame	https://images.app.goo.gl/2Vv1PnGy3Dv3zw5v5	NULL	75.00	blondor, 20vol	8				
7	Toner	https://images.app.goo.gl/A2NnJULwufyzdHNL9	2023-09-07	35.00	10/01, gentle	8				
8	Camo-Color	https://images.app.goo.gl/JsAefDwVGf6CK6P88	NULL	NULL	light grey, processing solution	7				
9	Color Correction		NULL	NULL	6N, 7A, 20 vol	6				
10	Glaze	https://images.app.goo.gl/yhZgbJ5ras6nVjL8	2024-01-21	45.00	clear, genite	7				
NULL	NULL	NULL	NULL	NULL	NULL	NULL				

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

```
1 • SELECT service_type, user_email
2 FROM formula_file, web_user
3 WHERE formula_file.web_user_id = web_user.web_user_id
4 ORDER BY web_user.web_user_id, service_type;
5
```

Result Grid

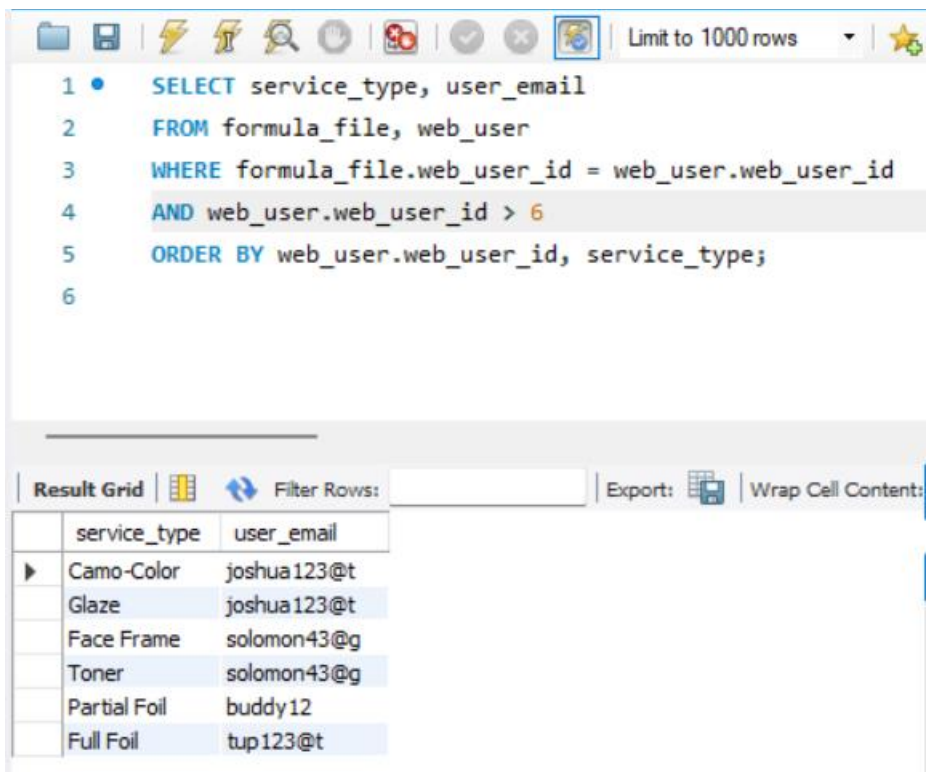
Filter Rows:

Export:

Wrap Cell Content:

	service_type	user_email
▶	Single Process	tup13771@temple.e
	Single Process Partial Foil	tup13771@temple.e
	Single Process Full Foil	mickeymouse@e
	Color Correction	mikeg824@gmail
	Camo-Color	joshua123@t
	Glaze	joshua123@t
	Face Frame	solomon43@g
	Toner	solomon43@g
	Partial Foil	buddy12
	Full Foil	tup123@t

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



The screenshot shows a SQL query editor window with a toolbar at the top. The query is as follows:

```
1 • SELECT service_type, user_email
2 FROM formula_file, web_user
3 WHERE formula_file.web_user_id = web_user.web_user_id
4 AND web_user.web_user_id > 6
5 ORDER BY web_user.web_user_id, service_type;
6
```

Below the query editor is the "Result Grid" section. It includes a "Filter Rows:" input field, an "Export:" button, and a "Wrap Cell Content:" checkbox. The results are displayed in a table with two columns: "service_type" and "user_email".

service_type	user_email
Camo-Color	joshua123@t
Glaze	joshua123@t
Face Frame	solomon43@g
Toner	solomon43@g
Partial Foil	buddy12
Full Foil	tup123@t