



1. Edward Keegan

2. [http://cis-linux2.temple.edu:8080/sp23\\_3308\\_tul66739/index.html#/home](http://cis-linux2.temple.edu:8080/sp23_3308_tul66739/index.html#/home)








### 3. user\_role TABLE DESIGN

Table Name:  Schema:   
Collation:  Engine:   
Comments:

Column Name	Datatype	PK	NN	UQ	B	UN	ZF	AI
 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"/>
 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"/>

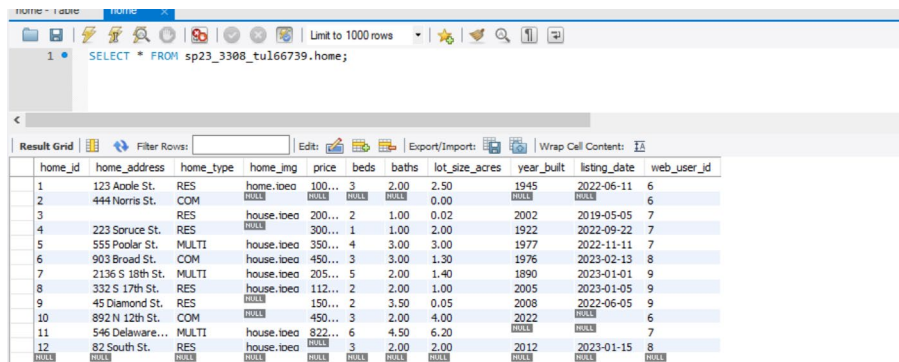
### 4. web\_user TABLE DESIGN and FOREIGN KEY

Table Name:  Schema:   
Collation:  Engine:   
Comments:

Column Name	Datatype	PK	NN	UQ	B	UN	ZF	AI
 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"/>
 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"/>
 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"/>
 image	VARCHAR(300)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 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"/>
 birthday	DATE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 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"/>

Foreign Key Name:  Referenced Table:   
Column:  Referenced Column:   
Foreign Key Options: On Update:  On Delete:

## 5. "OTHER" TABLE DESIGN and FOREIGN KEY



SQL Query: `SELECT * FROM sp23_3308_tul66739.home;`

home_id	home_address	home_type	home_img	price	beds	baths	lot_size_acres	year_built	listing_date	web_user_id
1	123 Acote St.	RES	home.ideo	100...	3	2.00	2.50	1945	2022-06-11	6
2	444 Norris St.	COM	home.ideo	100...	3	2.00	0.00	1945	2022-06-11	6
3	223 Soruce St.	RES	house.ideo	200...	2	1.00	0.02	2002	2019-05-05	7
4	555 Poolar St.	RES	house.ideo	300...	1	1.00	2.00	1922	2022-09-22	7
5	903 Broad St.	MULTI	house.ideo	350...	4	3.00	3.00	1977	2022-11-11	7
6	2136 S 18th St.	COM	house.ideo	450...	3	3.00	1.30	1976	2023-02-13	8
7	332 S 17th St.	MULTI	house.ideo	205...	5	2.00	1.40	1890	2023-01-01	9
8	45 Diamond St.	RES	house.ideo	112...	2	2.00	1.00	2005	2023-01-05	9
9	892 N 12th St.	RES	house.ideo	150...	2	3.50	0.05	2008	2022-06-05	9
10	546 Delaware...	COM	house.ideo	450...	3	2.00	4.00	2022	2022-06-05	6
11	82 South St.	MULTI	house.ideo	822...	6	4.50	6.20	2012	2023-01-15	7
12		RES	house.ideo	100...	3	2.00	2.00	2012	2023-01-15	8

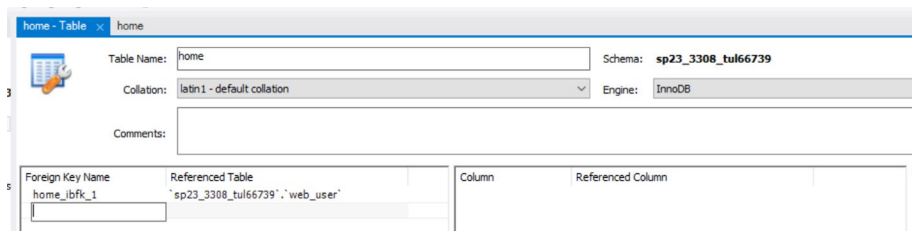


Table Name: home Schema: sp23\_3308\_tul66739

Collation: latin1 - default collation Engine: InnoDB

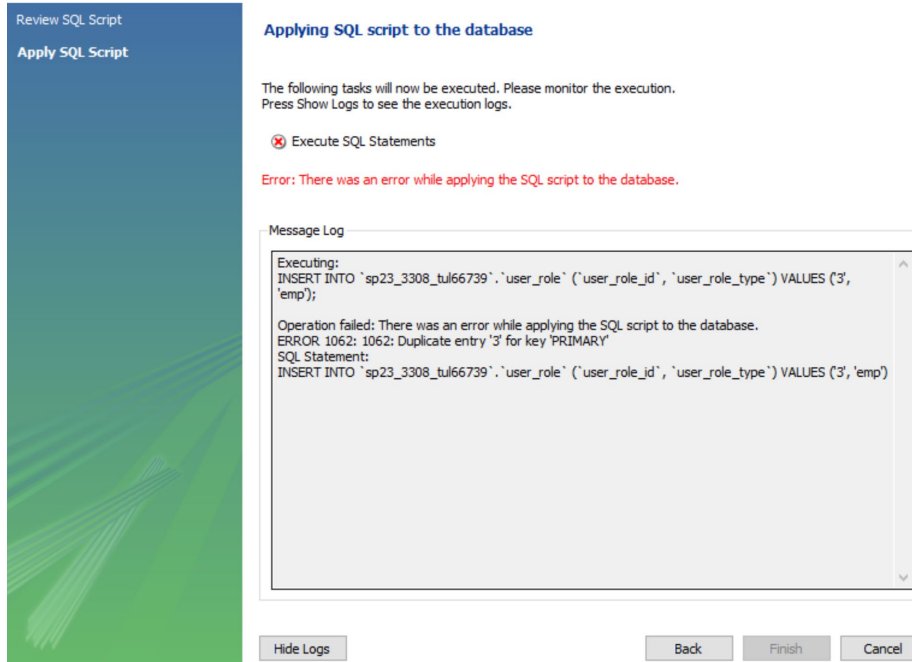
Comments:

Foreign Key Name	Referenced Table	Column	Referenced Column
home_ibfk_1	sp23_3308_tul66739.web_user		

## 6. DATA ENTRY ERRORS

### a) Error: Duplicate user\_role PK

Apply SQL Script to Database



**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.

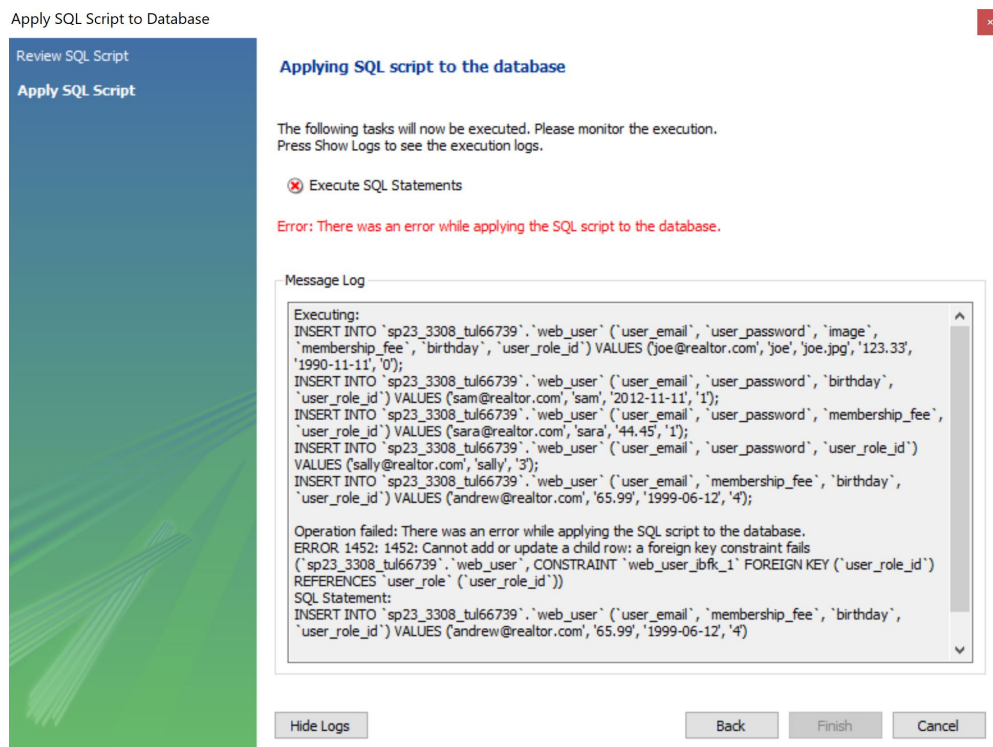
Message Log

```
Executing:
INSERT INTO `sp23_3308_tul66739`.`user_role` (`user_role_id`, `user_role_type`) VALUES ('3', 'emp');

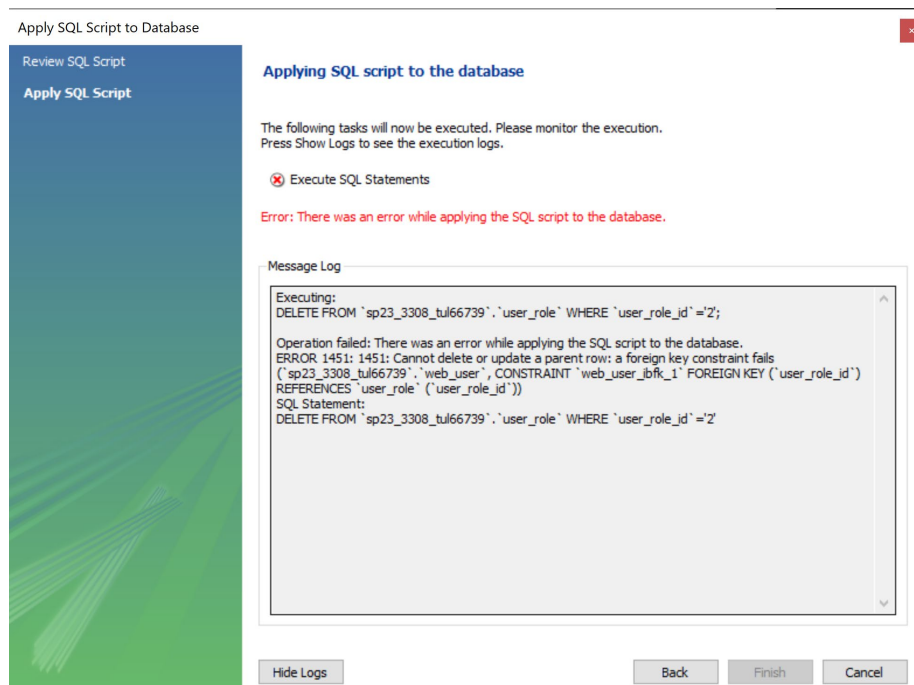
Operation failed: There was an error while applying the SQL script to the database.
ERROR 1062: Duplicate entry '3' for key 'PRIMARY'
SQL Statement:
INSERT INTO `sp23_3308_tul66739`.`user_role` (`user_role_id`, `user_role_type`) VALUES ('3', 'emp')
```

Hide Logs Back Finish Cancel

## b) Error: Invalid user\_role FK in web\_user record



## c) Error: Cannot delete a user\_role record that's referenced by a web\_user record



## d) Invalid web\_user FK in "other" record

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:  
UPDATE `sp23\_3308\_tul66739`.`home` SET `web\_user\_id`='11' WHERE `home\_id`='12';  
  
ERROR 1452: 1452: Cannot add or update a child row: a foreign key constraint fails  
(`sp23\_3308\_tul66739`.`home`, CONSTRAINT `home\_ibfk\_1` FOREIGN KEY (`web\_user\_id`)  
REFERENCES `web\_user` (`web\_user\_id`))  
SQL Statement:  
UPDATE `sp23\_3308\_tul66739`.`home` SET `web\_user\_id`='11' WHERE `home\_id`='12'

Hide Logs

Back

Finish

Cancel

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

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 `sp23\_3308\_tul66739`.`web\_user` WHERE `web\_user\_id`='6';  
  
ERROR 1451: 1451: Cannot delete or update a parent row: a foreign key constraint fails  
(`sp23\_3308\_tul66739`.`home`, CONSTRAINT `home\_ibfk\_1` FOREIGN KEY (`web\_user\_id`)  
REFERENCES `web\_user` (`web\_user\_id`))  
SQL Statement:  
DELETE FROM `sp23\_3308\_tul66739`.`web\_user` WHERE `web\_user\_id`='6'

Hide Logs

Back

Finish

Cancel

## 7. SELECT STATEMENTS

a) USER\_ROLE: all rows, all columns, sorted by user\_role\_id.

Limit to 1000 rows

```

1 SELECT * FROM sp23_3308_tu166739.user_role
2 order by user_role_id;

```

Result Grid

user_role_id	user_role_type
0	ADMIN
1	MEMBER
2	TEMP
3	VIEW
NULL	NULL

31 16:34:05 SELECT \* FROM user\_role order by user\_role\_id LIMIT 0, 1000 4 row(s) returned 0.000 sec / 0.000 sec

b) WEB\_USER: all rows, all columns, sorted by web\_user\_id.

web\_user - Table user\_role web\_user web\_user x user\_role web\_user - Table

Limit to 1000 rows

```

1 SELECT * FROM web_user
2 order by web_user_id;

```

Result Grid

web_user_id	user_email	user_password	image	membership_fee	birthday	user_role
6	ioe@realtor.com	ioe	ioe.jpg	123.33	1990-11-11	0
7	sam@realtor.com	sam	NULL	NULL	2012-11-11	1
8	sara@realtor.com	sara	NULL	44.45	NULL	1
9	sally@realtor.com	sally	NULL	NULL	NULL	3
10	andrew@realtor.com	andrew	NULL	65.99	1999-06-12	2
NULL	NULL	NULL	NULL	NULL	NULL	NULL

32 16:38:37 SELECT \* FROM web\_user order by web\_user\_id LIMIT 0, 10... 5 row(s) returned 0.016 sec / 0.000 sec

c) WEB\_USER JOINED WITH USER\_ROLE: all rows, certain columns, sorted.

The screenshot shows a database management interface with a SQL query editor and a results pane. The query is a JOIN between web\_user and user\_role tables, ordered by user\_role\_type and web\_user\_email. The results pane shows a table with two columns: user\_role\_type and user\_email. The results are as follows:

user_role_type	user_email
ADMIN	ioe@realtor.com
MEMBER	sam@realtor.com
MEMBER	sara@realtor.com
TEMP	andrew@realtor.com
VIEW	sallv@realtor.com

Below the results pane, there is an 'Output' section showing a log of database actions. The log includes the following entries:

#	Time	Action	Message
21	16:24:56	SELECT * FROM web_user order by web_user_id LIMIT 0, 10...	5 row(s) returned
22	16:25:56	DELETE FROM 'sp23_3308_tul66739'. 'user_role' WHERE 'u...	1451: Cannot delete or update a parent row: a foreign key co
23	16:29:49	SELECT * FROM web_user order by web_user_id LIMIT 0, 10...	5 row(s) returned
24	16:29:53	SELECT * FROM web_user order by web_user_id LIMIT 0, 10...	5 row(s) returned

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

MySQL Workbench

linux2 x

File Edit View Query Database Server Tools Scripting Help

Navigator

sp23\_3308\_tul66

sp23\_3308\_tul6673

Tables

homes

user\_role

web\_user

Views

Stored Procedures

Functions

homes - Table

home

web\_user

homes

homes

Limit to 1000 rows

SQLA

1 SELECT \* FROM homes

2 order by homes\_id;

Result Grid

homes_id	homes_address	homes_type	home_img	price	beds	baths	lot_size_acres	year_built	listing_date	web_user_id
1	123 Apple St.	RES	home.1oeo	100000.00	3	2.00	2.50	1945	2022-06-11	6
2	444 Norris St.	COM	home.1oeo	200000.00	2	1.00	0.02	2002	2019-05-05	7
3	223 MtVernon St.	RES	home.1oeo	300000.00	1	1.00	2.00	1922	2022-09-22	7
4	223 Source St.	RES	home.1oeo	300000.00	1	1.00	2.00	1922	2022-09-22	7
5	555 Poplar St.	MULTI	home.1oeo	350000.00	4	3.00	3.00	1977	2022-11-11	7
6	903 Broad St.	COM	home.1oeo	450000.00	3	3.00	1.30	1976	2022-02-13	8
7	2136 S 18th St.	MULTI	home.1oeo	205000.00	5	2.00	1.40	1890	2023-01-01	9
8	332 S 17th St.	RES	home.1oeo	112000.00	2	2.00	1.00	2005	2023-01-05	9
9	45 Diamond St.	RES	home.1oeo	150000.00	2	3.50	0.05	2008	2022-06-05	9
10	892 N 12th St.	COM	home.1oeo	450000.00	3	2.00	4.00	2022	2022-06-05	6
11	546 Delaware Ave.	MULTI	home.1oeo	822000.00	6	4.50	6.20	2022	2022-06-05	7
12	82 South St.	RES	home.1oeo	2012	3	2.00	2.00	2012	2023-01-15	8

homes 2 x

Output

Action Output

#	Time	Action	Message
53	15:17:56	SELECT * FROM sp23_3308_tul66739homes LIMIT 0, 1000	12 row(s) returned
54	15:18:12	SELECT * FROM homes order by homes_id LIMIT 0, 1000	12 row(s) returned

Object Info Session

g) "OTHER" JOINED WITH WEB\_USER all rows, certain columns, sorted.



homes - Table | home | web\_user | homes | SQLAddi

Limit to 1000 rows

```

1 SELECT homes_address, user_email
2 from homes, web_user
3 where homes.web_user_id = web_user.web_user_id |
4 order by homes_address, user_email;

```

Autom Use th help fo or to t

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

homes_address	user_email
123 Apple St.	ioe@realtor.com
2136 S 18th St.	sallv@realtor.com
223 MtVernon St.	sam@realtor.com
223 Spruce St.	sam@realtor.com
332 S 17th St.	sallv@realtor.com
444 Norris St.	ioe@realtor.com
45 Diamond St.	sallv@realtor.com
546 Delaware Ave.	sam@realtor.com
555 Poolar St.	sam@realtor.com
82 South St.	sara@realtor.com
892 N 12th St.	ioe@realtor.com
903 Broad St.	sara@realtor.com

Result Grid | Form Editor | Field Types | Query Stats

Result 6 x | Read Only | Context H

Output

Action Output

#	Time	Action	Message
51	15:16:52	SELECT homes_address, user_email from homes, web_...	6 row(s) returned
52	15:17:22	SELECT homes_address, user_email from homes, web_...	12 row(s) returned

h) "OTHER" JOINED WITH WEB\_USER some rows, certain columns, sorted.



