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2. 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
















Table Name:

homes

Schema:

sp23_3308_tul66739



Column Name	Datatype	PK	NN	UQ	B	UN	ZF	AI	G	Default/Ex
 homes_id	INT(11)	<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"/>	
 homes_address	VARCHAR(300)	<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"/>	
 homes_type	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"/>	
 homes_img	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
 price	DECIMAL(11,2)	<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
 beds	INT(4)	<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
 baths	DECIMAL(3,2)	<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
 lot_size_acres	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
 year_built	INT(11)	<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
 listing_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
 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"/>	

<

>

home - Table: home

Table Name: Schema: **sp23_3308_tul66739**

Collation: Engine:

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

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

```
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')
```

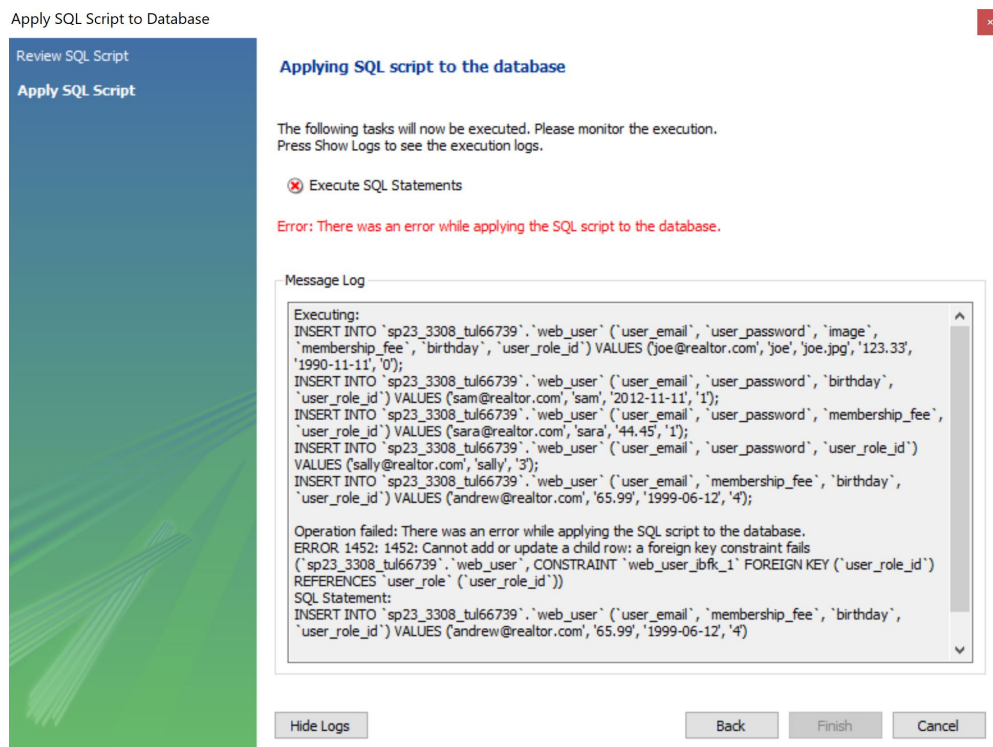
Hide Logs

Back

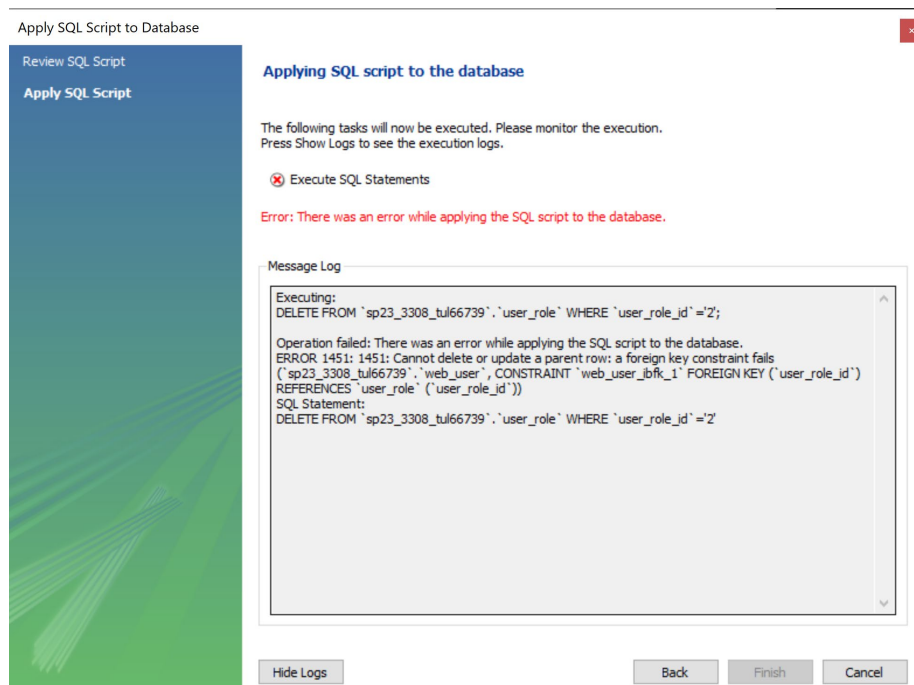
Finish

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 grid. The query is a JOIN between web_user and user_role tables, ordered by user_role_type and user_email. The results grid shows 5 rows of data.

SQL Query:

```
1 SELECT user_role.user_role_type, web_user.user_email
2 FROM web_user
3 JOIN user_role ON web_user.user_role_id = user_role.user_role_id
4 ORDER BY user_role.user_role_type, web_user.user_email;
```

Result Grid:

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

Output Log:

#	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

homes - Table home web_user homes homes

Limit to 1000 rows

SQLA

sp23_3308_tul66

sp23_3308_tul6673

Tables

homes

user_role

web_user

Views

Stored Procedures

Functions

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.

