

1. Luke Jecen

2. URL to STUDENT WEB SITE

http://cis-linux2.temple.edu:8080/fa21_3344_tuj72807_LA/index.html

3. user_role TABLE DESIGN

Query 1 user_role - Table

Table Name: user_role Schema: fa21_3344_tuj72807

Collation: Schema Default Engine: InnoDB

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

MySQL Workbench

template3344

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Navigator

MANAGEMENT

- Server Status
- Client Connections
- Users and Privileges
- Status and System Variables
- Data Export
- Data Import/Restore

INSTANCE

- Startup / Shutdown
- Server Logs
- Options File

PERFORMANCE

- Dashboard
- Performance Reports
- Performance Schema Setup

SCHEMAS

Filter objects

Query 1 web_user - Table

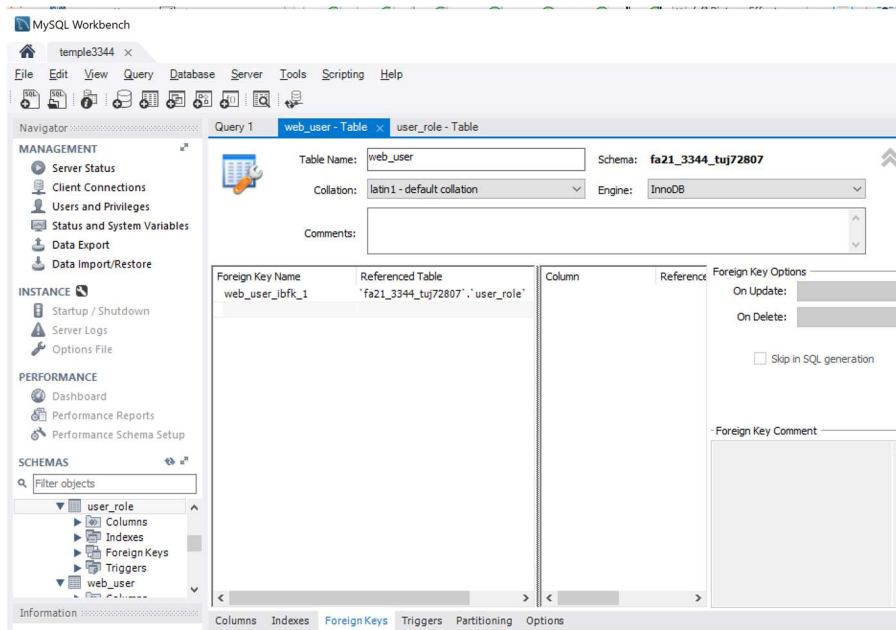
Table Name: web_user Schema: fa21_3344_tuj72807

Collation: latin1 - default collation Engine: InnoDB

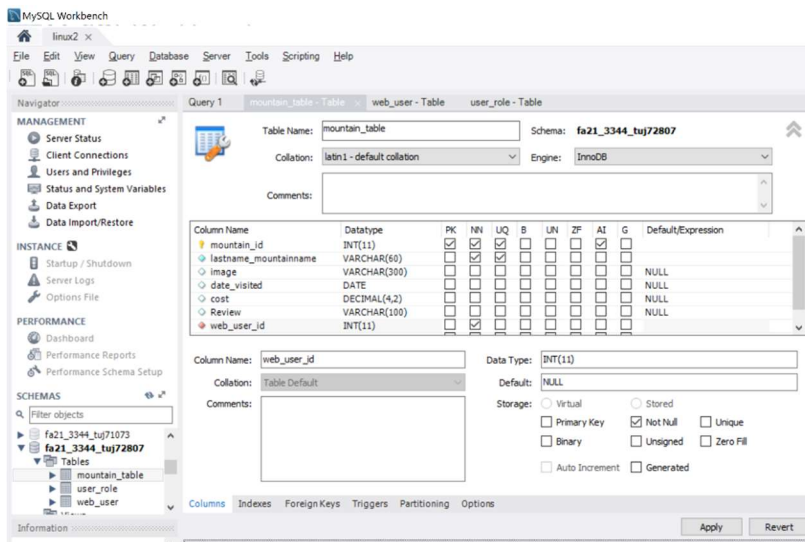
Comments:

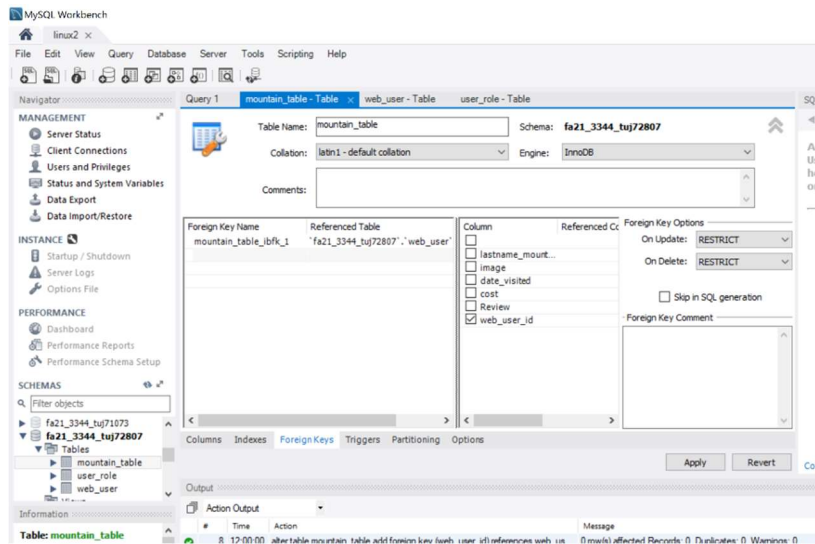
Column Name	Datatype	PK	NN	UQ	B	UN	ZF	AI	G	Default/Expression
web_user_id	INT(11)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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"/>	<input type="checkbox"/>	
user_password	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"/>	
image	VARCHAR(300)	<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
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"/>	<input type="checkbox"/>	NULL
birthday	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
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"/>	<input type="checkbox"/>	

Column Name: Data Type: Collation: Table Default Expression:



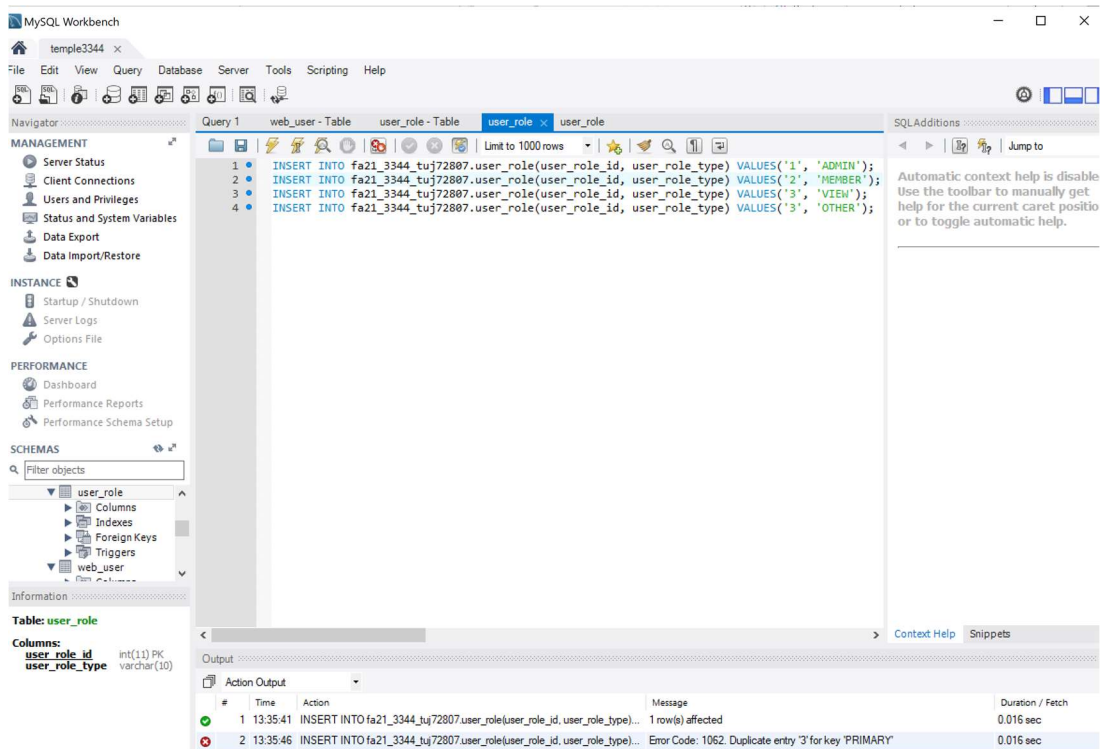
5. "OTHER" TABLE DESIGN and FOREIGN KEY



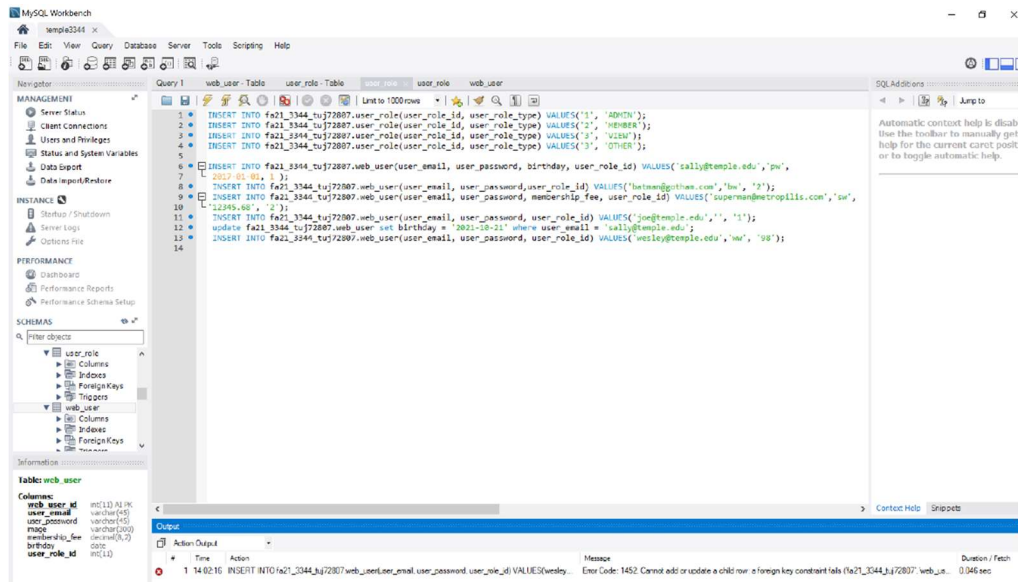


6. DATA ENTRY ERRORS

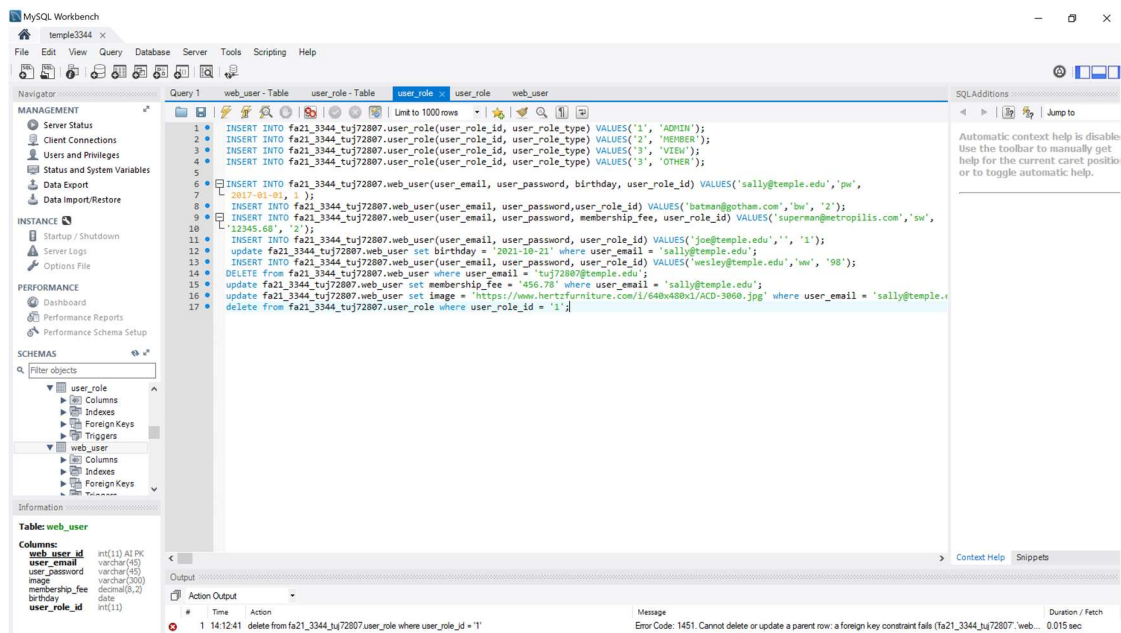
a) Error: Duplicate user_role PK



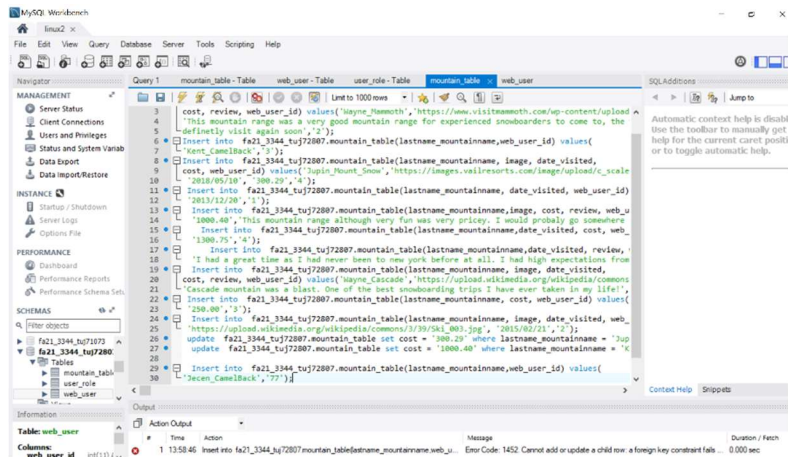
b) Error: Invalid user_role FK in web_user record



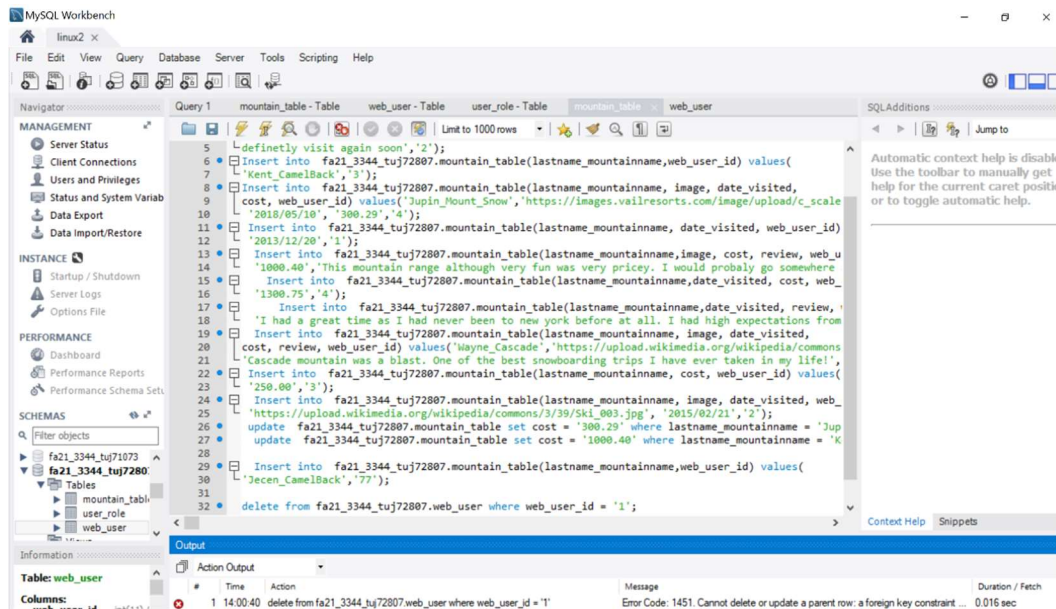
c) Error: Cannot delete a user_role record that's referenced by a web_user record



d) Invalid web_user FK in "other" record



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



7. SELECT STATEMENTS

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

MySQL Workbench interface showing a query on the `user_role` table. The query is: `SELECT * FROM fa21_3344_tuj72807.user_role order by user_role_id;` The result grid shows the following data:

user_role_id	user_role_type
1	ADMIN
2	MEMBER
3	OTHER

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

MySQL Workbench interface showing a query on the `web_user` table. The query is: `SELECT * FROM fa21_3344_tuj72807.web_user order by web_user_id;` The result grid shows the following data:

web_user_id	user_email	user_password	image	membership_fee	birthday	user_role_id
1	sally@temple.edu	ow	https://www.hertzfurniture.com/i/640x480x1/A...	456.78	2021-10-21	1
2	batman@ootham.com	bw	ROLE	ROLE	ROLE	2
3	suerman@metrooils.com	sw	ROLE	12345.68	ROLE	2
4	ioe@temple.edu	ROLE	ROLE	ROLE	ROLE	1

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

MySQL Workbench interface showing a JOIN query between the `web_user` and `user_role` tables. The query is: `SELECT web_user_id, web_user_email, user_role_type FROM web_user inner join user_role on web_user.user_role_id = user_role.user_role_id order by web_user_id;` The result grid shows the following data:

user_role_id	web_user_id	user_email	user_role_type
1	1	sally@temple.edu	ADMIN
1	4	ioe@temple.edu	ADMIN
2	2	batman@ootham.com	MEMBER
2	3	suerman@metrooils.com	MEMBER

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

The screenshot shows the MySQL Workbench interface. The query editor contains the following SQL statement:

```
SELECT * FROM fa21_3344_tu72887.mountain_table order by mountain_id;
```

The result grid displays the following data:

mountain_id	lastname_mountainname	image	date_visited	cost	Review	web_user_id
1	Wayne Mammoth	https://www.visitmammoth...	2021-10-22	99.99	This mountain range was a very good mount...	2
2	Kent CamelBack					3
3	Juon Mount Snow	https://images.valeisorts...	2018-05-19	300.29		4
4	Kivernitis CamelBack		2013-12-20			1
5	Kent Whistler	https://travel.home.sndmc...		1000...	This mountain range although very fun was ...	3
6	Juon Whistler		2001-01-02	1000...		4
7	Kivernitis Whiteface		2010-11-27		I had a great time as I had never been to ne...	1
8	Wayne Cascade	https://upload.wikimedia.or...	2018-10-12	500.25	Cascade mountain was a blast. One of the b...	2
9	Kent Gele			250.00		3
10	Wayne Gore	https://upload.wikimedia.or...	2015-02-21			2

The output pane shows the execution of the query, indicating that 10 rows were returned.

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

The screenshot shows the MySQL Workbench interface. The query editor contains the following SQL statement:

```
SELECT mountain_table.web_user_id, mountain_id, lastname_mountainname, user_email From mountain_table inner join web_user on mountain_table.web_user_id = web_user.web_user_id order by mountain_table.web_user_id, mountain_table.mountain_id;
```

The result grid displays the following data:

web_user_id	mountain_id	lastname_mountainname	user_email
1	4	Kivernitis CamelBack	salvi@temole.edu
1	7	Kivernitis Whiteface	salvi@temole.edu
2	1	Wayne Mammoth	batman@sootham.com
2	8	Wayne Cascade	batman@sootham.com
2	10	Wayne Gore	batman@sootham.com
3	2	Kent CamelBack	superman@metrtools.com
3	5	Kent Whistler	superman@metrtools.com
3	9	Kent Gele	superman@metrtools.com
4	3	Juon Mount Snow	toe@temole.edu
4	6	Juon Whistler	toe@temole.edu

The output pane shows the execution of the query, indicating that 10 rows were returned.

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

MySQL Workbench

linux2 x

File Edit View Query Database Server Tools Scripting Help

Navigator: Query 1 mountain_table - Table web_user - Table user_role - Table mountain_table web_user mountain_table x

MANAGEMENT

1 SELECT mountain_table.web_user_id, mountain_id, lastname_mountainname, user_email, date_visited, review From mounta
2 web_user on mountain_table.web_user_id = web_user.web_user_id where web_user.user_email = 'batman@gotham.com'
3 order by mountain_table.web_user_id, mountain_table.mountain_id;

INSTANCE

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SCHERMAS

Filter o
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fz

Result Grid

Filter Rows: Export: Wrap Cell Content: f

web_user_id	mountain_id	lastname_mountainname	user_email	date_visited	review
2	1	Wavne Mammoth	batman@gotham.com	2021-10-22	This mountain range was a very good mountain ...
2	8	Wavne Cascade	batman@gotham.com	2019-10-12	Cascade mountain was a blast. One of the best...
2	10	Wavne Gore	batman@gotham.com	2015-02-21	

Result 6 x Read Only