

1. STUDENT NAME: Ivan Dat Nguyen

2. URL to STUDENT WEB SITE

[http://cis-linux2.temple.edu:8080/FA22\\_3308\\_tuj81499/index.html](http://cis-linux2.temple.edu:8080/FA22_3308_tuj81499/index.html)

3. user\_role TABLE DESIGN

The screenshot shows the MySQL Workbench interface. The left sidebar displays the 'SCHEMAS' tree with the 'FA22\_3308\_tuj81499' database selected. The main window shows the 'user\_role' table design. The table has two columns: 'user\_role\_id' (INT(11)) and 'user\_role\_type' (VARCHAR(10)). The 'user\_role\_id' column is marked as the primary key (PK) and has a 'NOT NULL' (NN) constraint. The 'user\_role\_type' column is marked as 'NOT NULL' (NN). The table is using the 'InnoDB' engine. The 'Columns' tab is selected, showing the column details. The 'Output' tab at the bottom shows the results of the table creation and foreign key setup.

Column Name	Data Type	PK	NN	UQ	B	UN	ZF	AI	G	Default/Expression
user_role_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"/>	
user_role_type	VARCHAR(10)	<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

Table: web\_user  
Columns:  
web\_user\_id INT(11) AI PK  
web\_email VARCHAR  
user\_password VARCHAR  
image VARCHAR  
membership\_fee DECIMA  
birthday DATE  
user\_role\_id INT(11)

Output  
Action Output  
# Time Action Message Duration / Fetch  
8 13:03:28 alter table web\_user add foreign key (user\_role\_id) references user\_role (... 0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0 0.031 sec  
9 13:03:29 alter table web\_user add foreign key (user\_role\_id) references user\_role (... 0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0 0.031 sec  
10 13:04:36 alter table web\_user add foreign key (user\_role\_id) references user\_role (... 0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0 0.047 sec  
11 13:05:36 SELECT \* FROM FA22\_3308\_tuj81499.user\_role LIMIT 0, 1000 0 row(s) returned 0.000 sec / 0.000 sec  
12 13:11:49 Apply changes to web\_user

4. web\_user TABLE DESIGN and FOREIGN KEY

MySQL Workbench

Navigator

SCHEMAS

FA22\_3308\_tuj81499

Tables

user\_role

Columns

Indexes

Foreign Keys

Triggers

web\_user

Columns

Indexes

PRIMARY

web\_usercol\_UA

web\_user\_ibfk\_1

Foreign Keys

Triggers

Views

Stored Procedures

Functions

Table: web\_user

Columns:

web\_user\_id int(11) AI PK

web\_email varchar

user\_password varchar

image varchar

membership\_fee decimal

birthday date

user\_role\_id int(11)

Table Name: web\_user

Schema: FA22\_3308\_tuj81499

Charset/Collation: latin1 latin1\_bin 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"/>	
web_email	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"/>	
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"/>	<input type="checkbox"/>	
image	VARCHAR(300)	<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"/>	NULL
membership_fee	DECIMAL(8,2)	<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"/>	NULL
birthday	DATE	<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"/>	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: user\_role\_id Data Type: INT(11)

Charset/Collation: Default Charc Default Collato

Comments:

Storage: ☐ Virtual ☐ Stored

☐ Primary Key ☒ Not Null ☐ Unique

☐ Binary ☐ Unsigned ☐ Zero Fill

☐ Auto Increment ☐ Generated

Columns Indexes Foreign Keys Triggers Partitioning Options

Apply Revert Context Help Snippets

Output

Action Output

#	Time	Action	Message	Duration / Fetch
8	13:03:28	alter table web_user add foreign key (user_role_id) references user_role (...)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.031 sec
9	13:03:29	alter table web_user add foreign key (user_role_id) references user_role (...)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.031 sec
10	13:04:36	alter table web_user add foreign key (user_role_id) references user_role (...)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.047 sec
11	13:05:36	SELECT * FROM FA22_3308_tuj81499 user_role LIMIT 0, 1000	0 row(s) returned	0.000 sec / 0.000 sec
12	13:11:49	Apply changes to web_user		

MySQL Workbench

Navigator

SCHEMAS

FA22\_3308\_tuj81499

Tables

user\_role

Columns

Indexes

Foreign Keys

Triggers

web\_user

Columns

Indexes

PRIMARY

web\_usercol\_UA

web\_user\_ibfk\_1

Foreign Keys

Triggers

Views

Stored Procedures

Functions

Table: web\_user

Columns:

web\_user\_id int(11) AI PK

web\_email varchar

user\_password varchar

image varchar

membership\_fee decimal

birthday date

user\_role\_id int(11)

Query 1

alter table web\_user add foreign key (user\_role\_id) references user\_role (user\_role\_id);

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	12:55:54	Apply changes to web_user	Error 1064: You have an error in your SQL syntax; check the manual that c...	
2	12:56:44	Apply changes to web_user	Error 1064: You have an error in your SQL syntax; check the manual that c...	
3	12:58:04	Apply changes to web_user		
4	13:00:42	Apply changes to user_role	Changes applied	
5	13:00:53	Apply changes to web_user	Error 1064: You have an error in your SQL syntax; check the manual that c...	
6	13:01:33	Apply changes to web_user	Changes applied	
7	13:03:21	alter table web_user add foreign key (user_role_id) references user_role (...)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.016 sec
8	13:03:28	alter table web_user add foreign key (user_role_id) references user_role (...)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.031 sec
9	13:03:29	alter table web_user add foreign key (user_role_id) references user_role (...)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.031 sec
10	13:04:36	alter table web_user add foreign key (user_role_id) references user_role (...)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.047 sec
11	13:05:36	SELECT * FROM FA22_3308_tuj81499 user_role LIMIT 0, 1000	0 row(s) returned	0.000 sec / 0.000 sec
12	13:11:49	Apply changes to web_user		
13	13:12:10	Apply changes to web_user	Changes applied	
14	13:15:04	alter table web_user add foreign key (user_role_id) references user_role (...)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.016 sec

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

MySQL Workbench

Ivan - Warning - not supported

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

FA22\_3308\_tuj81499

Tables

photo\_blog

Columns

photo\_blog\_id

photo\_topic

photos

list\_price

time\_line

web\_user\_id

Indexes

Foreign Keys

Triggers

user\_role

web\_user

Views

Stored Procedures

Functions

Table Name: photo\_blog

Schema: FA22\_3308\_tuj81499

Charset/Collation: latin1 latin1\_bin Engine: InnoDB

Comments:

Column Name	Datatype	PK	NN	UQ	B	UN	ZF	AT	G	Default/Expression
photo_blog_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"/>	
photo_topic	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"/>	
photos	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
list_price	DECIMAL(8,2)	<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"/>	
time_line	DATE	<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"/>	
web_user_id	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"/>	

Column Name: web\_user\_id

Data Type: INT(11)

Charset/Collation: Default Charset Default Collation

Comments:

Storage: ☐ Virtual ☐ Stored ☐ Primary Key ☒ Not Null ☐ Unique ☐ Binary ☐ Unsigned ☐ Zero Fill ☐ Auto Increment ☐ Generated

Columns Indexes Foreign Keys Triggers Partitioning Options

Apply Revert

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	18:51:58	Apply changes to photo_blog	Changes applied	

Showing loaded schemas only

Administration Schemas

Information

No object selected

Object Info Session

SQL Editor Opened.

79°F Sunny

6:53 PM 9/21/2022

MySQL Workbench

Ivan - Warning - not supported

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

FA22\_3308\_tuj81499

Tables

photo\_blog

Columns

photo\_blog\_id

photo\_topic

photos

list\_price

time\_line

web\_user\_id

Indexes

Foreign Keys

Triggers

user\_role

web\_user

Views

Stored Procedures

Functions

Table Name: photo\_blog

Schema: FA22\_3308\_tuj81499

Charset/Collation: latin1 latin1\_bin Engine: InnoDB

Comments:

Column Name: web\_user\_id

Data Type: INT(11)

Charset/Collation: Default Charset Default Collation

Comments:

Storage: ☐ Virtual ☐ Stored ☐ Primary Key ☒ Not Null ☐ Unique ☐ Binary ☐ Unsigned ☐ Zero Fill ☐ Auto Increment ☐ Generated

Columns Indexes Foreign Keys Triggers Partitioning Options

Apply Revert

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	18:51:58	Apply changes to photo_blog	Changes applied	
2	19:07:07	alter table web_user add foreign key (web_user_id) references photo_blog (web_user_id)	Error Code: 1005. Can't create table 'FA22_3308_tuj81499.#sql-63d_8539' (errno: 150)	0.031 sec
3	19:08:07	SELECT * FROM FA22_3308_tuj81499.user_role LIMIT 0, 1000	4 row(s) returned	0.016 sec / 0.000 sec
4	19:08:10	SELECT * FROM FA22_3308_tuj81499.web_user LIMIT 0, 1000	6 row(s) returned	0.016 sec / 0.000 sec
5	19:09:28	alter table web_user add foreign key (web_user_id) references photo_blog (web_user_id)	Error Code: 1005. Can't create table 'FA22_3308_tuj81499.#sql-63d_8539' (errno: 150)	0.063 sec
6	19:14:56	Apply changes to photo_blog	Error 1075: Incorrect table definition; there can be only one auto column and it must be defined as a key SQL ...	
7	19:15:07	Apply changes to photo_blog	Changes applied	
8	19:16:17	alter table photo_blog add foreign key (web_user_id) references web_user (web_user_id)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.047 sec

Showing loaded schemas only

Administration Schemas

Information

Table: photo\_blog

Columns:

photo\_blog\_id int(11)

photo\_topic varchar

photos varchar

list\_price decimal

time\_line date

web\_user\_id int(11)

Object Info Session

Query Completed

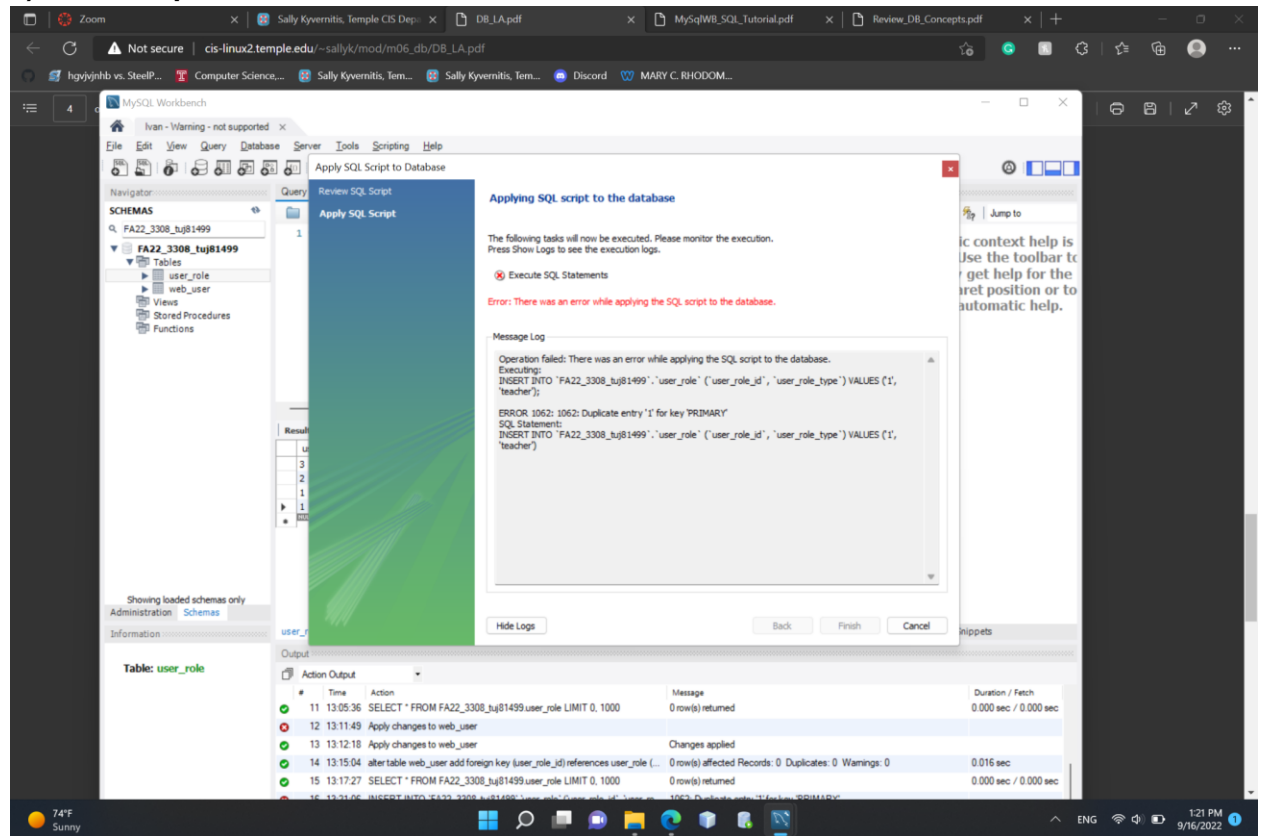
78°F Sunny

7:16 PM 9/21/2022

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

## 6. DATA ENTRY ERRORS

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



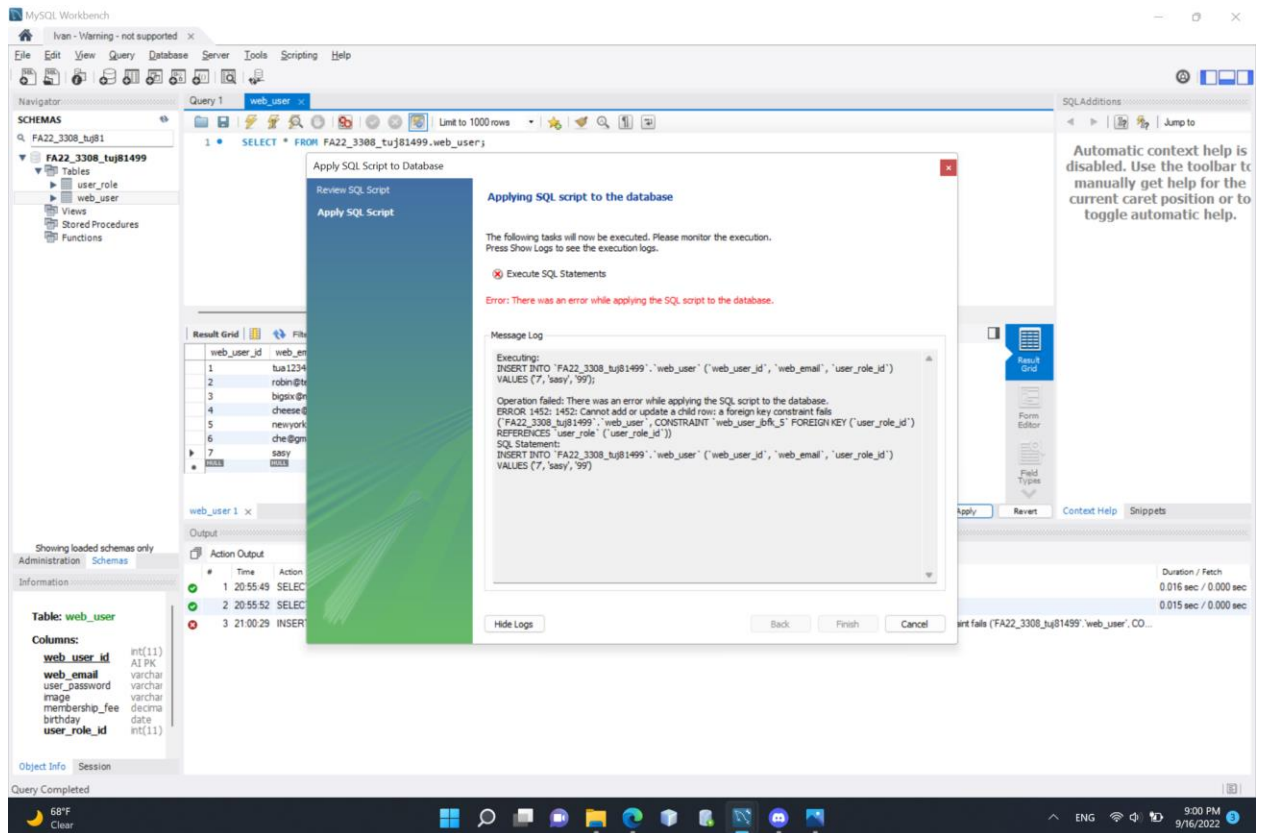
The screenshot shows the MySQL Workbench interface. A dialog box titled "Applying SQL script to the database" is open, displaying an error message: "Error: There was an error while applying the SQL script to the database." The message log shows the following details:

```
Operation failed: There was an error while applying the SQL script to the database.
Executing:
INSERT INTO `FA22_3308_bu81499`.`user_role` (`user_role_id`, `user_role_type`) VALUES (1, 'teacher');
ERROR 1062 (1062): Duplicate entry '1' for key 'PRIMARY'
SQL Statement:
INSERT INTO `FA22_3308_bu81499`.`user_role` (`user_role_id`, `user_role_type`) VALUES (1, 'teacher');
```

The background shows the MySQL Workbench interface with the "Apply SQL Script" dialog box. The "Message Log" tab is selected, showing the error details. The "Output" tab at the bottom shows the execution progress of the script.

#	Time	Action	Message	Duration / Fetch
11	13:05:36	SELECT * FROM FA22_3308_bu81499.user_role LIMIT 0, 1000	0 row(s) returned	0.000 sec / 0.000 sec
12	13:11:49	Apply changes to web_user		
13	13:12:10	Apply changes to web_user	Changes applied	
14	13:15:04	alter table web_user add foreign key (user_role_id) references user_role (...)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.016 sec
15	13:17:27	SELECT * FROM FA22_3308_bu81499.user_role LIMIT 0, 1000	0 row(s) returned	0.000 sec / 0.000 sec
16	13:21:06	INSERT INTO `FA22_3308_bu81499`.`user_role` (`user_role_id`, `user_role_type`) VALUES (1, 'teacher');	ERROR 1062 (1062): Duplicate entry '1' for key 'PRIMARY'	

### 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

MySQL Workbench

Ivan - Warning - not supported

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

FA22\_3308\_tuj81499

Tables

user\_role

Columns

Indexes

PRIMARY

web\_usercol\_UNIQUE

web\_user\_ibfk\_1

Foreign Keys

Triggers

Views

Stored Procedures

Functions

Query 1: web\_user user\_role

Limit to 1000 rows

1 DELETE FROM user\_role WHERE user\_role\_id = 0

SQLAdditions

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Context Help Snippets

Showing loaded schemas only

Administration Schemas

Information

Table: user\_role

Object Info Session

Output

Action Output

#	Time	Action	Message	Duration / Fetch
22	13:41:29	SELECT * FROM FA22_3308_tuj81499.web_user LIMIT 0, 1000	6 row(s) returned	0.000 sec / 0.000 sec
23	13:41:54	UPDATE FA22_3308_tuj81499.web_user SET web_email = 'cheese@gmail.com' WHERE (web_user_id = 7)	1062: Duplicate entry 'cheese@gmail.com' for key 'web_usercol_UNIQUE'	
24	13:41:54	INSERT INTO FA22_3308_tuj81499.web_user (web_user_id) VALUES (7)	1062: Duplicate entry 'for key 'web_usercol_UNIQUE'	
25	13:42:38	SELECT * FROM FA22_3308_tuj81499.web_user LIMIT 0, 1000	7 row(s) returned	0.000 sec / 0.000 sec
26	13:48:24	SELECT * FROM FA22_3308_tuj81499.user_role LIMIT 0, 1000	4 row(s) returned	0.000 sec / 0.000 sec
27	13:50:33	SELECT * FROM FA22_3308_tuj81499.user_role LIMIT 0, 1000	4 row(s) returned	0.000 sec / 0.000 sec
28	13:51:59	DELETE FROM user_role WHERE user_role_id = 3	Error Code: 1054. Unknown column '3' in 'where clause'	0.016 sec
29	13:52:18	DELETE FROM user_role WHERE user_role_id = 3	1 row(s) affected	0.000 sec
30	13:53:02	SELECT * FROM FA22_3308_tuj81499.user_role LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec
31	13:53:30	DELETE FROM user_role WHERE user_role_id = 0	Error Code: 1451. Cannot delete or update a parent row: a foreign key constraint fails (FA22_3308_tuj81499...	0.015 sec

75°F Sunny

1:53 PM 9/16/2022

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

MySQL Workbench

Ivan - Warning - not supported

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

FA22\_3308\_tuj81499

photo\_blog

Columns

user\_role\_id

user\_role\_type

Indexes

Foreign Keys

Triggers

Views

Stored Procedures

Functions

Query 1: photo\_blog, web\_user photo\_blog - Table

Limit to 1000 rows

1 SELECT \* FROM FA22\_3308\_tuj81499.photo\_blog

SQLAdditions

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Context Help Snippets

Showing loaded schemas only

Administration Schemas

Information

Table: photo\_blog

Columns:

photo\_blog\_id int(11)

photo\_topic varchar

list\_price decimal

time\_line date

web\_user\_id int(11)

Object Info Session

Output

Action Output

#	Time	Action	Message	Duration / Fetch
9	19:23:04	SELECT * FROM FA22_3308_tuj81499.photo_blog LIMIT 0, 1000	0 row(s) returned	0.016 sec / 0.000 sec
10	19:26:52	SELECT * FROM FA22_3308_tuj81499.web_user LIMIT 0, 1000	6 row(s) returned	0.015 sec / 0.000 sec
11	19:33:01	SELECT * FROM FA22_3308_tuj81499.photo_blog LIMIT 0, 1000	10 row(s) returned	0.015 sec / 0.000 sec
12	19:35:13	UPDATE FA22_3308_tuj81499.photo_blog SET web_user_id = 7 WHERE (photo_blog_id = 7)	1452: Cannot add or update a child row: a foreign key constraint fails (FA22_3308_tuj81499photo_blog, ...	

Query Completed

76°F Mostly clear

7:35 PM 9/21/2022



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

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

```
1 • DELETE FROM web_user WHERE web_user_id = 2;
```

The output window displays the execution log with the following messages:

#	Time	Action	Message	Duration / Fetch
5	19:09:28	alter table web_user add foreign key (web_user_id) references photo_blog (web_user_id)	Error Code: 1005. Can't create table 'FA22_3308_tuj81499' (errno: 150)	0.063 sec
6	19:14:56	Apply changes to photo_blog	Error 1075: Incorrect table definition; there can be only one auto column and it must be defined as a key SQL...	
7	19:15:07	Apply changes to photo_blog	Changes applied	
8	19:16:17	alter table photo_blog add foreign key (web_user_id) references web_user (web_user_id)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.047 sec
9	19:23:04	SELECT * FROM FA22_3308_tuj81499 photo_blog LIMIT 0, 1000	0 row(s) returned	0.015 sec / 0.000 sec
10	19:26:52	SELECT * FROM FA22_3308_tuj81499 web_user LIMIT 0, 1000	6 row(s) returned	0.015 sec / 0.000 sec
11	19:33:01	SELECT * FROM FA22_3308_tuj81499 photo_blog LIMIT 0, 1000	10 row(s) returned	0.015 sec / 0.000 sec
12	19:35:13	UPDATE 'FA22_3308_tuj81499' photo_blog SET 'web_user_id' = '7' WHERE (photo_blog_id = '7')	1452: Cannot add or update a child row: a foreign key constraint fails ('FA22_3308_tuj81499' photo_blog', ...	
13	19:38:08	DELETE FROM web_user WHERE web_user_id = '2'	Error Code: 1054. Unknown column '2' in 'where clause'	0.016 sec
14	19:38:29	SELECT * FROM FA22_3308_tuj81499 web_user LIMIT 0, 1000	6 row(s) returned	0.016 sec / 0.000 sec
15	19:39:30	DELETE FROM web_user WHERE web_user_id = 2	Error Code: 1451. Cannot delete or update a parent row: a foreign key constraint fails ('FA22_3308_tuj8149...	0.016 sec

The output window also shows a message: "Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help."

## 7. SELECT STATEMENTS

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

MySQL Workbench

Ivan - Warning - not supported

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

FA22\_3308\_tuj81499

Tables

user\_role

web\_user

Views

Stored Procedures

Functions

Query 1

web\_user user\_role

Limit to 1000 rows

1 \* SELECT \* FROM FA22\_3308\_tuj81499.user\_role order by user\_role\_id;

Result Grid

user_role_id	user_role_type
1	teacher
2	student
3	admin

user\_role 2 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	20:55:49	SELECT * FROM FA22_3308_tuj81499.user_role LIMIT 0, 1000	4 row(s) returned	0.016 sec / 0.000 sec
2	20:55:52	SELECT * FROM FA22_3308_tuj81499.web_user LIMIT 0, 1000	7 row(s) returned	0.015 sec / 0.000 sec
3	21:00:29	INSERT INTO 'FA22_3308_tuj81499'.web_user ('web_user_id', 'web_email', 'user_role_id') VALUES (7, '...', '1')	1452: Cannot add or update a child row: a foreign key constraint fails (FA22_3308_tuj81499'.web_user', CO...	
4	21:06:09	SELECT * FROM FA22_3308_tuj81499.user_role LIMIT 0, 1000	4 row(s) returned	0.016 sec / 0.000 sec
5	21:06:21	SELECT * FROM FA22_3308_tuj81499.user_role order by user_role_id LIMIT 0, 1000	4 row(s) returned	0.015 sec / 0.000 sec

Table: user\_role

Columns:

user\_role\_id int(11) PK

user\_role\_type varchar(10)

Object Info Session

Query Completed

68°F Clear

9:06 PM 9/16/2022

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

MySQL Workbench

Ivan - Warning - not supported

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

FA22\_3308\_tuj81499

Tables

user\_role

web\_user

Views

Stored Procedures

Functions

Query 1

web\_user user\_role

Limit to 1000 rows

1 \* SELECT \* FROM FA22\_3308\_tuj81499.web\_user order by web\_user\_id;

Result Grid

web_user_id	web_email	user_password	image	membership_fee	birthday	user_role_id
1	tua1234@temple.edu	am	aaa	123.00	2012-01-07	1
2	robin@temple.edu	bm	aaa	456.00	2020-05-12	2
3	bigpix@movie.com	cm	aaa	78.90	2020-05-12	2
4	cheese@gmail.com	dm	aaa	12.35	2020-05-12	1
5	newyork@city.com	em	aaa	60.65	2020-05-12	0
6	che@gmail.com	fm	aaa	12.35	2020-05-12	0

web\_user 1 web\_user 2 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	20:55:49	SELECT * FROM FA22_3308_tuj81499.user_role LIMIT 0, 1000	4 row(s) returned	0.016 sec / 0.000 sec
2	20:55:52	SELECT * FROM FA22_3308_tuj81499.web_user LIMIT 0, 1000	7 row(s) returned	0.015 sec / 0.000 sec
3	21:00:29	INSERT INTO 'FA22_3308_tuj81499'.web_user ('web_user_id', 'web_email', 'user_role_id') VALUES (7, '...', '1')	1452: Cannot add or update a child row: a foreign key constraint fails (FA22_3308_tuj81499'.web_user', CO...	
4	21:06:09	SELECT * FROM FA22_3308_tuj81499.user_role LIMIT 0, 1000	4 row(s) returned	0.016 sec / 0.000 sec
5	21:06:21	SELECT * FROM FA22_3308_tuj81499.user_role order by user_role_id LIMIT 0, 1000	4 row(s) returned	0.015 sec / 0.000 sec
6	21:07:01	SELECT * FROM FA22_3308_tuj81499.web_user order by web_user_id LIMIT 0, 1000	6 row(s) returned	0.016 sec / 0.000 sec

Table: user\_role

Columns:

user\_role\_id int(11) PK

user\_role\_type varchar(10)

Object Info Session

Query Completed

68°F Clear

9:07 PM 9/16/2022



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

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

```
1 * SELECT web_email, user_role_type FROM web_user a JOIN user_role b ON a.user_role_id = b.user_role_id ORDER BY user_role_type;
```

The query results are displayed in the 'Result Grid' pane below the editor. The results are sorted by user\_role\_type. The columns shown are web\_email and user\_role\_type.

web_email	user_role_type
newyork@city.com	admin
robin@temple.edu	student
bigax@movie.com	student
tua1234@temple.edu	teacher
cheese@gmail.com	teacher
che@gmail.com	teacher

The 'Action Output' pane at the bottom shows the execution log of the query. The log indicates that the query was executed successfully and returned 6 rows.

#	Time	Action	Message	Duration / Fetch
1	20:55:49	SELECT * FROM FA22_3308_tu@1499 user_role LIMIT 0, 1000	4 row(s) returned	0.016 sec / 0.000 sec
2	20:55:52	SELECT * FROM FA22_3308_tu@1499 web_user LIMIT 0, 1000	7 row(s) returned	0.015 sec / 0.000 sec
3	21:00:29	INSERT INTO 'FA22_3308_tu@1499' 'web_user' ('web_user_id', 'web_email', 'user_role_id') VALUES (7, 'b...	1452: Cannot add or update a child row: a foreign key constraint fails ('FA22_3308_tu@1499' 'web_user', CO...	
4	21:06:09	SELECT * FROM FA22_3308_tu@1499 user_role LIMIT 0, 1000	4 row(s) returned	0.016 sec / 0.000 sec
5	21:06:21	SELECT * FROM FA22_3308_tu@1499 user_role order by user_role_id LIMIT 0, 1000	4 row(s) returned	0.015 sec / 0.000 sec
6	21:07:01	SELECT * FROM FA22_3308_tu@1499 web_user order by web_user_id LIMIT 0, 1000	6 row(s) returned	0.016 sec / 0.000 sec
7	21:07:45	SELECT web_email, user_role_type FROM web_user a JOIN user_role b ON a.user_role_id = b.user_role_id ...	6 row(s) returned	0.016 sec / 0.000 sec
8	21:08:27	SELECT web_email, user_role_type FROM web_user a JOIN user_role b ON a.user_role_id = b.user_role_id ...	6 row(s) returned	0.032 sec / 0.000 sec

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

MySQL Workbench

Ivan - Warning - not supported

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

FA22\_3308\_tuj81499

photo\_blog

user\_role

web\_user

Views

Stored Procedures

Functions

Query 1

photo\_blog web\_user

Limit to 1000 rows

1 SELECT \* FROM photo\_blog order by photo\_blog\_id;

2

Result Grid

photo_blog_id	photo_topic	photos	list_price	time_line	web_user_id
1	motion	image1	5.99	2012-01-09	1
2	dreaming	image2	12.68	2017-05-13	3
3	portal	image4	20.17	2020-03-19	5
4	landscap	image4	4.99	2010-03-18	2
5	city	image5	8.25	2002-03-15	2
6	scanning	image7	35.81	2009-09-06	4
7	street	image7	3.12	2021-05-12	2
8	red color	image9	1.25	2022-08-18	5
9	blue color	image9	1.25	2022-09-03	3
10	black and white	image10	6.10	2007-01-01	1

photo\_blog1 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
8	19:16:17	alter table photo_blog add foreign key (web_user_id) references web_user (web_user_id)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.047 sec
9	19:23:04	SELECT * FROM FA22_3308_tuj81499 photo_blog LIMIT 0, 1000	0 row(s) returned	0.016 sec / 0.000 sec
10	19:26:52	SELECT * FROM FA22_3308_tuj81499 web_user LIMIT 0, 1000	6 row(s) returned	0.015 sec / 0.000 sec
11	19:33:01	SELECT * FROM FA22_3308_tuj81499 photo_blog LIMIT 0, 1000	10 row(s) returned	0.015 sec / 0.000 sec
12	19:35:13	UPDATE FA22_3308_tuj81499 'photo_blog' SET 'web_user_id' = '7' WHERE (photo_blog_id = '7')	1452: Cannot add or update a child row: a foreign key constraint fails (FA22_3308_tuj81499 'photo_blog', ...	0.016 sec
13	19:38:08	DELETE FROM web_user WHERE web_user_id = '2'	Error Code: 1054. Unknown column '2' in 'where clause'	0.016 sec
14	19:38:29	SELECT * FROM FA22_3308_tuj81499 web_user LIMIT 0, 1000	6 row(s) returned	0.016 sec / 0.000 sec
15	19:39:30	DELETE FROM web_user WHERE web_user_id = 2	Error Code: 1451. Cannot delete or update a parent row: a foreign key constraint fails (FA22_3308_tuj8149...	0.016 sec
16	19:39:44	SELECT * FROM FA22_3308_tuj81499 photo_blog LIMIT 0, 1000	10 row(s) returned	0.016 sec / 0.000 sec
17	19:39:50	SELECT * FROM FA22_3308_tuj81499 web_user LIMIT 0, 1000	6 row(s) returned	0.016 sec / 0.000 sec
18	19:48:39	SELECT * FROM photo_blog order by photo_blog_id LIMIT 0, 1000	10 row(s) returned	0.016 sec / 0.000 sec

Query Completed

76°F Mostly clear

ENG 7:48 PM 9/21/2022

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

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

MySQL Workbench

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File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

FA22\_3308\_tuj81499

photo\_blog

user\_role

web\_user

Views

Stored Procedures

Functions

Query 1

photo\_blog web\_user

Limit to 1000 rows

1 SELECT photo\_topic, web\_email FROM web\_user a JOIN photo\_blog b ON a.web\_user\_id = b.web\_user\_id ORDER BY photo\_topic, web\_email;

Result Grid

photo_topic	web_email
black and white	tua1234@temple.edu
blue color	bigsx@movie.com
city	robin@temple.edu
dreaming	bigsx@movie.com
landscap	robin@temple.edu
motion	tua1234@temple.edu
portal	newyork@city.com
red color	newyork@city.com
scanning	cheese@gmail.com
street	robin@temple.edu

Result 2 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
10	19:26:52	SELECT * FROM FA22_3308_tuj81499 web_user LIMIT 0, 1000	6 row(s) returned	0.015 sec / 0.000 sec
11	19:33:01	SELECT * FROM FA22_3308_tuj81499 photo_blog LIMIT 0, 1000	10 row(s) returned	0.015 sec / 0.000 sec
12	19:35:13	UPDATE FA22_3308_tuj81499 'photo_blog' SET 'web_user_id' = '7' WHERE (photo_blog_id = '7')	1452: Cannot add or update a child row: a foreign key constraint fails (FA22_3308_tuj81499 'photo_blog', ...	0.016 sec
13	19:38:08	DELETE FROM web_user WHERE web_user_id = '2'	Error Code: 1054. Unknown column '2' in 'where clause'	0.016 sec
14	19:38:29	SELECT * FROM FA22_3308_tuj81499 web_user LIMIT 0, 1000	6 row(s) returned	0.016 sec / 0.000 sec
15	19:39:30	DELETE FROM web_user WHERE web_user_id = 2	Error Code: 1451. Cannot delete or update a parent row: a foreign key constraint fails (FA22_3308_tuj8149...	0.016 sec
16	19:39:44	SELECT * FROM FA22_3308_tuj81499 photo_blog LIMIT 0, 1000	10 row(s) returned	0.016 sec / 0.000 sec
17	19:39:50	SELECT * FROM FA22_3308_tuj81499 web_user LIMIT 0, 1000	6 row(s) returned	0.016 sec / 0.000 sec
18	19:48:39	SELECT * FROM photo_blog order by photo_blog_id LIMIT 0, 1000	10 row(s) returned	0.016 sec / 0.000 sec
19	19:49:23	SELECT * FROM FA22_3308_tuj81499 photo_blog LIMIT 0, 1000	10 row(s) returned	0.016 sec / 0.000 sec
20	20:12:50	SELECT photo_topic, web_email FROM web_user a JOIN photo_blog b ON a.web_user_id = b.web_user...	10 row(s) returned	0.031 sec / 0.000 sec

Query Completed

74°F Clear

ENG 8:12 PM 9/21/2022

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

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

MySQL Workbench

Ivan - Warning - not supported

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

FA22\_3308\_tuj81499

Tables

- photo\_blog
- user\_role
- web\_user
- Views
- Stored Procedures
- Functions

Query 1

```
1 SELECT photo_topic, web_email FROM web_user a JOIN photo_blog b ON a.web_user_id = b.web_user_id
2 WHERE photo_topic LIKE '%X%' ORDER BY photo_topic, web_email;
```

Result Grid

photo_topic	web_email
black and white	tua1234@temple.edu
city	robin@temple.edu
motion	tua1234@temple.edu
portal	newyork@city.com
street	robin@temple.edu

Table: photo\_blog

Columns:

- photo\_blog\_id int(11)
- photo\_topic varchar
- photos varchar
- list\_price decimal
- time\_line date
- web\_user\_id int(11)

Output

Action Output

#	Time	Action	Message	Duration / Fetch
11	19:33:01	SELECT * FROM FA22_3308_tuj81499.photo_blog LIMIT 0, 1000	10 row(s) returned	0.015 sec / 0.000 sec
12	19:35:13	UPDATE FA22_3308_tuj81499 'photo_blog' SET 'web_user_id' = '7' WHERE (photo_blog_id = '7')	1452: Cannot add or update a child row: a foreign key constraint fails (FA22_3308_tuj81499 'photo_blog', ...	
13	19:38:08	DELETE FROM web_user WHERE web_user_id = '2'	Error Code: 1054. Unknown column '2' in 'where clause'	0.016 sec
14	19:38:29	SELECT * FROM FA22_3308_tuj81499.web_user LIMIT 0, 1000	6 row(s) returned	0.016 sec / 0.000 sec
15	19:39:30	DELETE FROM web_user WHERE web_user_id = 2	Error Code: 1451. Cannot delete or update a parent row: a foreign key constraint fails (FA22_3308_tuj8149...	0.016 sec
16	19:39:44	SELECT * FROM FA22_3308_tuj81499.photo_blog LIMIT 0, 1000	10 row(s) returned	0.016 sec / 0.000 sec
17	19:39:50	SELECT * FROM FA22_3308_tuj81499.web_user LIMIT 0, 1000	6 row(s) returned	0.016 sec / 0.000 sec
18	19:48:39	SELECT * FROM photo_blog order by photo_blog_id LIMIT 0, 1000	10 row(s) returned	0.016 sec / 0.000 sec
19	19:49:23	SELECT * FROM FA22_3308_tuj81499.photo_blog LIMIT 0, 1000	10 row(s) returned	0.016 sec / 0.000 sec
20	20:12:50	SELECT photo_topic, web_email FROM web_user a JOIN photo_blog b ON a.web_user_id = b.web_user...	10 row(s) returned	0.031 sec / 0.000 sec
21	20:15:11	SELECT photo_topic, web_email FROM web_user a JOIN photo_blog b ON a.web_user_id = b.web_user...	5 row(s) returned	0.015 sec / 0.000 sec

Query Completed

74°F Clear 8:15 PM 9/21/2022