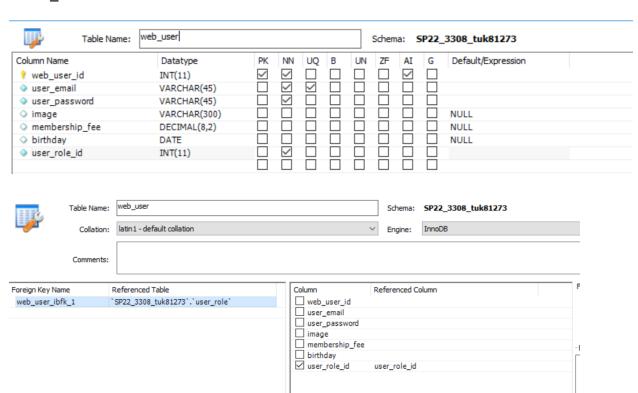
- 1. STUDENT NAME: Bradley Dinger
- 2. URL to STUDENT WEB SITE:

http://cis-linux2.temple.edu:8080/SP22\_3308\_tuk81273/index.html

3. user\_role TABLE DESIGN

Column Name	Datatype	PK	NN	UQ	В	UN	ZF	ΑI	G	Default/Expression
💡 user_role_id	INT(11)	<b>~</b>	<b>~</b>	<b>~</b>						
user_role_type	VARCHAR(10)		~	<b>~</b>						

4. web\_user TABLE DESIGN and FOREIGN KEY



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

artwork - Table $ imes$	user_role	- Table	web_user -	Table	artw	vork										
<b></b> 1	Table Name:	artwork										Schema	SP22_	3308_	tuk81273	
Column Name  i artwork_id  artwork_nam  image  year_complet  copies  artwork_desc  type  web_user_id	ted	VARO INT(1 INT(1 VARO VARO	CHAR(45) CHAR(200)	PK		UQ V	B	UN		AI	G 	Default/Exp NULL NULL NULL	ression			
	able Name:	artwork										Schema:	SP22_3	308_t	uk81273	
	latin1 - default collation									`	Engine:	InnoDB				
	Comments:															
Foreign Key Name artwork_ibfk_1		Referenced SP22_3308	Table _tuk81273`.`	web_user	`			a ir	rtwork rtwork mage ear_co opies rtwork	 :_nam omplet :_desc	e ted tript	Referenced (				
Columns Indexe	s Foreign	Keys Tric	ggers Partit	tionina (	Option	S										

## 6. DATA ENTRY ERRORS

a) Error: Duplicate user\_role PK

```
Executing:
INSERT INTO `SP22_3308_tuk81273`.`user_role` (`user_role_type`, `user_role_id`) VALUES ('2', 'njds');

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 `SP22_3308_tuk81273`.`user_role` (`user_role_type`, `user_role_id`) VALUES ('2', 'njds')
```

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

Error: There was an error while applying the SQL script to the database.

```
Operation failed: There was an error while applying the SQL script to the database.

Executing:

UPDATE `SP22_3308_tuk81273`.`web_user` SET `user_role_id`='4' WHERE `web_user_id`='7;

ERROR 1452: 1452: Cannot add or update a child row: a foreign key constraint fails

(`SP22_3308_tuk81273`.`web_user`, CONSTRAINT `web_user_fk1` FOREIGN KEY (`user_role_id`)

REFERENCES `user_role` (`user_roll_id`) ON DELETE NO ACTION ON UPDATE NO ACTION)

SQL Statement:

UPDATE `SP22_3308_tuk81273`.`web_user` SET `user_role_id`='4' WHERE `web_user_id`='7'
```

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

## Message Log

```
Executing:

DELETE FROM `SP22_3308_tuk81273`.`user_role` WHERE `user_role_id` ='2';

Operation failed: There was an error while applying the SQL script to the database.

ERROR 1451: 1451: Cannot delete or update a parent row: a foreign key constraint fails

(`SP22_3308_tuk81273`.`web_user`, CONSTRAINT `web_user_ibfk_2` FOREIGN KEY (`user_role_id`))

REFERENCES `user_role` (`user_role_id`))

SQL Statement:

DELETE FROM `SP22_3308_tuk81273`.`user_role` WHERE `user_role_id` ='2'
```

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

```
Executing:
UPDATE `SP22_3308_tuk81273`.`artwork` SET `web_user_id`='10' WHERE `artwork_id`='11';

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
(`SP22_3308_tuk81273`.`artwork`, CONSTRAINT `artwork_ibfk_1` FOREIGN KEY (`web_user_id`)
REFERENCES `web_user` (`web_user_id`))
SQL Statement:
UPDATE `SP22_3308_tuk81273`.`artwork` SET `web_user_id`='10' WHERE `artwork_id`='11'
```

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

```
Executing:

DELETE FROM `SP22_3308_tuk81273`.`web_user` WHERE `web_user_id` ='2';

Operation failed: There was an error while applying the SQL script to the database.

ERROR 1451: 1451: Cannot delete or update a parent row: a foreign key constraint fails

(`SP22_3308_tuk81273`.`artwork`, CONSTRAINT `artwork_ibfk_1` FOREIGN KEY (`web_user_id`)

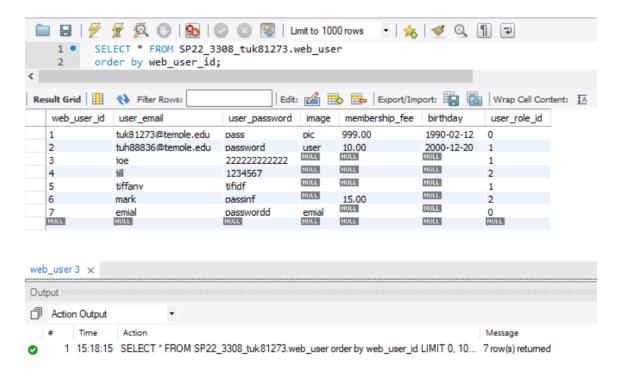
REFERENCES `web_user` (`web_user_id`))

SQL Statement:

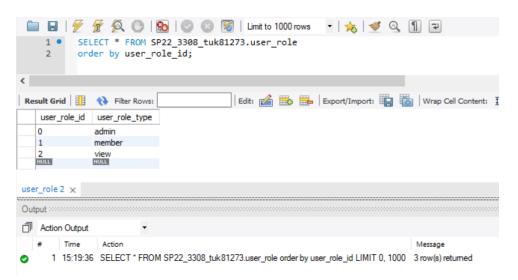
DELETE FROM `SP22_3308_tuk81273`.`web_user` WHERE `web_user_id` ='2'
```

## 7. SELECT STATEMENTS

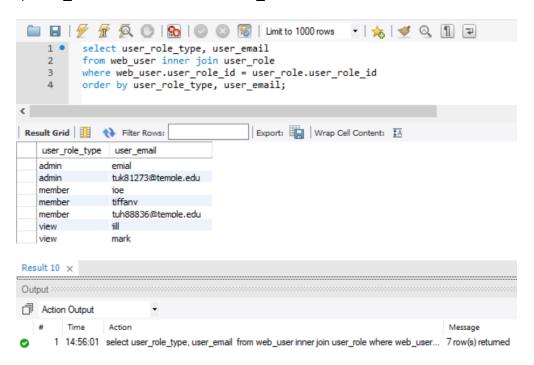
a) USER\_ROLE: all rows, all columns, sorted by user\_role\_id.



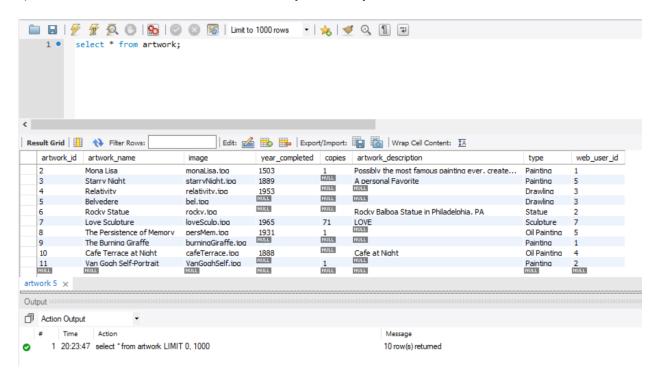
b) WEB USER: all rows, all columns, sorted by web user id.



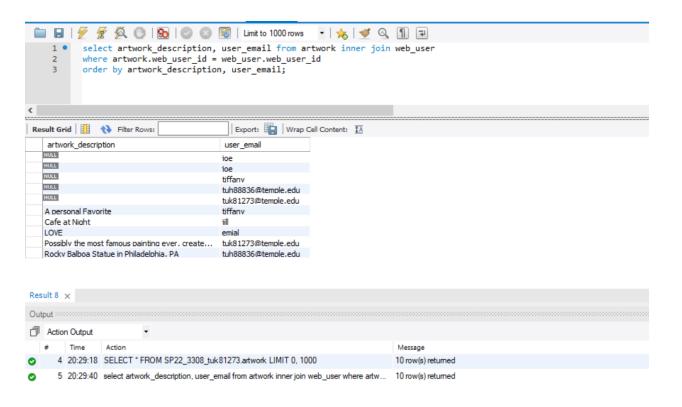
c) WEB\_USER JOINED WITH USER\_ROLE: all rows, certain columns, sorted.



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



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



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

