1. STUDENT NAME: **Evan Peachey**

2. URL to STUDENT WEB SITE

BikeHub

3. user_role TABLE DESIGN

4. web_user TABLE DESIGN and FOREIGN KEY

5. "OTHER" TABLE DESIGN and FOREIGN KEY

user_bike - Table ×   web_user - Table

Table Name:	user_bike
Charset/Collation:	Default Charset Default Collation
Comments:	

Schema: **fa24_3308_tuo18991**   Engine: InnoDB

Column Name	Datatype	PK	NN	UQ	B	UN	ZF	AI	G	Default/Expression
bike_id	INT(11)	☑	☑	☐	☐	☐	☐	☐	☐	
bike_name	VARCHAR(45)	☐	☑	☑	☐	☐	☐	☐	☐	
bike_image	VARCHAR(600)	☐	☐	☐	☐	☐	☐	☐	☐	NULL
bike_price	DECIMAL(8,2)	☐	☐	☐	☐	☐	☐	☐	☐	NULL
year_manufactured	YEAR(4)	☐	☐	☐	☐	☐	☐	☐	☐	NULL
bike_brand	VARCHAR(45)	☐	☐	☐	☐	☐	☐	☐	☐	NULL
bike_model	VARCHAR(45)	☐	☐	☐	☐	☐	☐	☐	☐	NULL
bike_type	VARCHAR(45)	☐	☐	☐	☐	☐	☐	☐	☐	NULL
web_user_id	INT(11)	☐	☑	☐	☐	☐	☐	☐	☐	
		☐	☐	☐	☐	☐	☐	☐	☐	

user_bike - Table ×   web_user - Table

Table Name:	user_bike
Charset/Collation:	Default Charset Default Collation
Comments:	

Schema: **fa24_330**   Engine: InnoDB

Foreign Key Name	Referenced Table
user_bike_ibfk_1	`fa24_3308_tuo18991`.`web_user`

Column	Referenced Column
☐ bike_id	
☐ bike_name	
☐ bike_image	
☐ bike_price	
☐ year_manufactu...	
☐ bike_brand	
☐ bike_model	
☐ bike_type	
☑ web_user_id	web_user_id

6. DATA ENTRY ERRORS

a) Error: Duplicate user_role PK

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 `fa24_3308_tuo18991`.`user_role` (`user_role_id`, `user_role_type`) VALUES ('1',
'ADMIN1');

Operation failed: There was an error while applying the SQL script to the database.
ERROR 1062: 1062: Duplicate entry '1' for key 'PRIMARY'
SQL Statement:
INSERT INTO `fa24_3308_tuo18991`.`user_role` (`user_role_id`, `user_role_type`) VALUES ('1',
'ADMIN1')
```

b) Error: Invalid user_role FK in web_user record

☓ 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 `fa24_3308_tuo18991`.`web_user` SET `user_role_id` = '3' WHERE (`web_user_id` = '3');

ERROR 1452: 1452: Cannot add or update a child row: a foreign key constraint fails
(`fa24_3308_tuo18991`.`web_user`, CONSTRAINT `web_user_ibfk_1` FOREIGN KEY (`user_role_id`)
REFERENCES `user_role` (`user_role_id`))
SQL Statement:
UPDATE `fa24_3308_tuo18991`.`web_user` SET `user_role_id` = '3' WHERE (`web_user_id` = '3')
```

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

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.
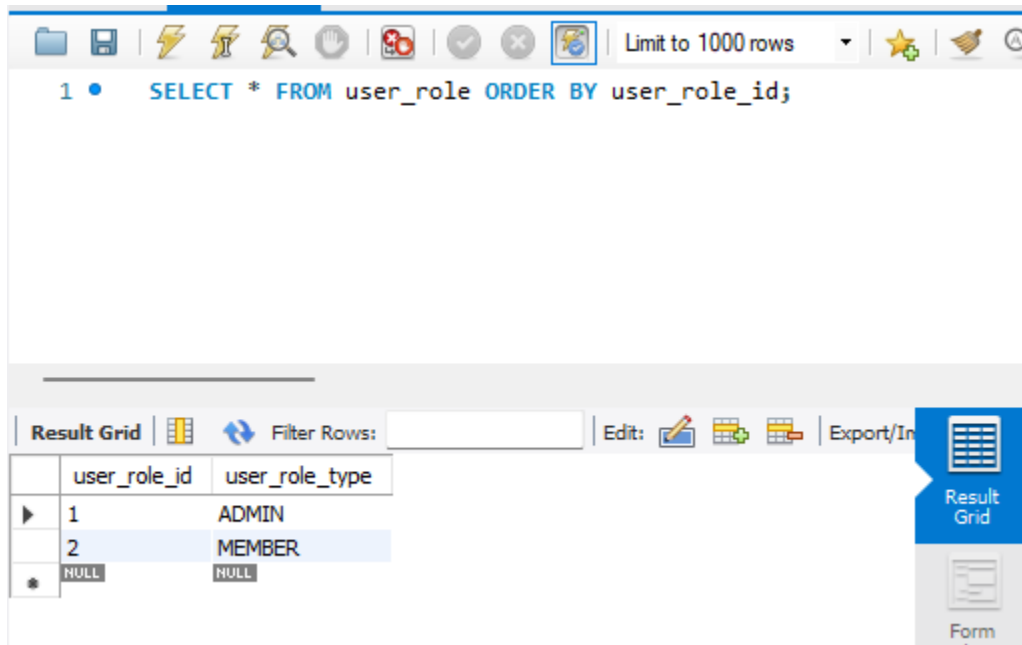
Message Log

Executing:
DELETE FROM `fa24_3308_tuo18991`.`web_user` WHERE (`web_user_id` = '5');

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
(`fa24_3308_tuo18991`.`user_bike`, CONSTRAINT `user_bike_ibfk_1` FOREIGN KEY (`web_user_id`)
REFERENCES `web_user` (`web_user_id`))
SQL Statement:
DELETE FROM `fa24_3308_tuo18991`.`web_user` WHERE (`web_user_id` = '5')

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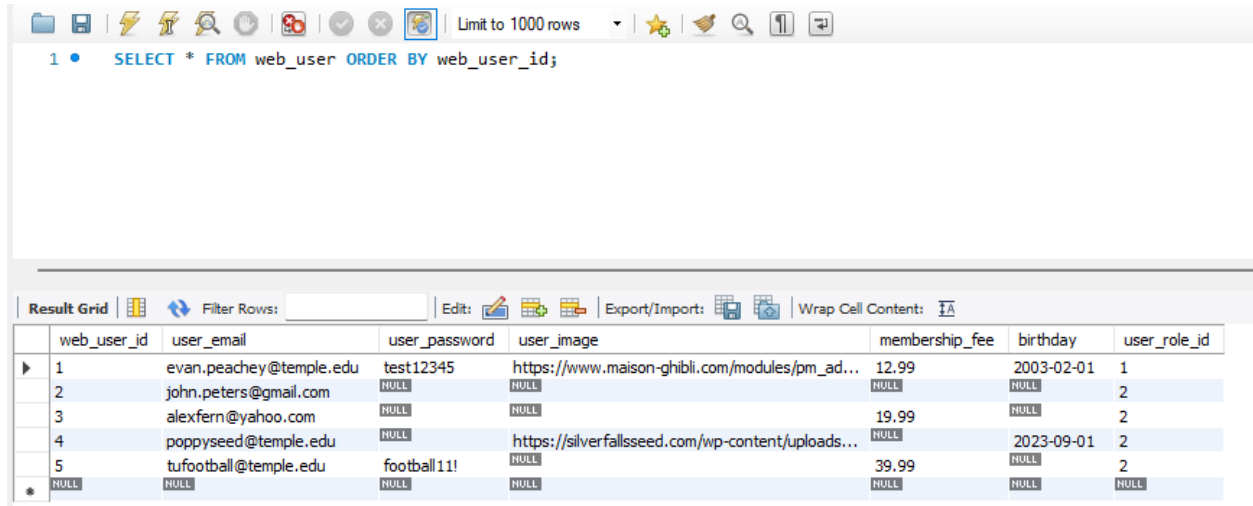
a) USER_ROLE: all rows, all columns, sorted by user_role_id.

```
1 •     SELECT * FROM user_role ORDER BY user_role_id;
```

user_role_id	user_role_type
1	ADMIN
2	MEMBER
NULL	NULL
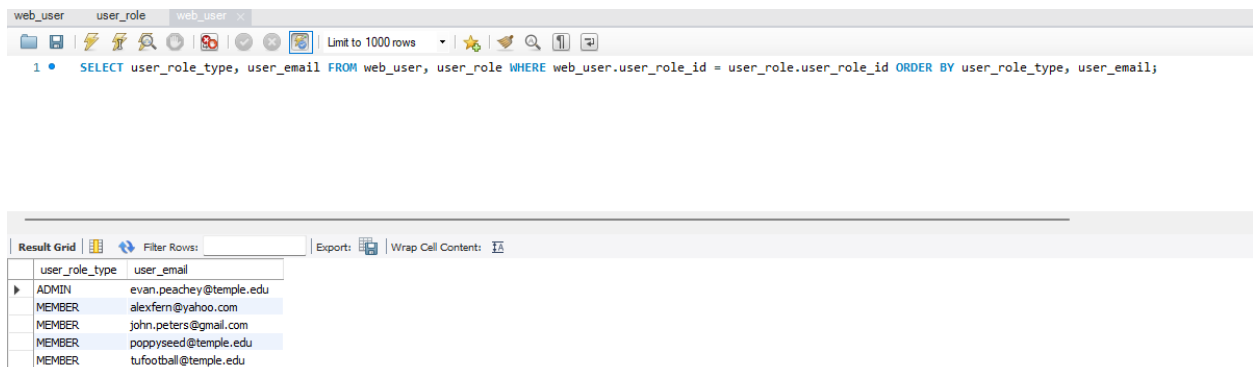
b) WEB_USER: all rows, all columns, sorted by web_user_id.


```
1 ●    SELECT * FROM web_user ORDER BY web_user_id;
```

web_user_id	user_email	user_password	user_image	membership_fee	birthday	user_role_id
1	evan.peachey@temple.edu	test12345	https://www.maison-ghibli.com/modules/pm_ad...	12.99	2003-02-01	1
2	john.peters@gmail.com	NULL	NULL	NULL	NULL	2
3	alexfern@yahoo.com	NULL	NULL	19.99	NULL	2
4	poppyseed@temple.edu	NULL	https://silverfallsseed.com/wp-content/uploads...	NULL	2023-09-01	2
5	tufootball@temple.edu	football11!	NULL	39.99	NULL	2
NULL	NULL	NULL	NULL	NULL	NULL	NULL

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


```
1 ●    SELECT user_role_type, user_email FROM web_user, user_role WHERE web_user.user_role_id = user_role.user_role_id ORDER BY user_role_type, user_email;
```

user_role_type	user_email
ADMIN	evan.peachey@temple.edu
MEMBER	alexfern@yahoo.com
MEMBER	john.peters@gmail.com
MEMBER	poppyseed@temple.edu
MEMBER	tufootball@temple.edu

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

```sql
1 •  SELECT * FROM user_bike SORTED ORDER BY bike_id;
```

bike_id	bike_name	bike_image	bike_price	year_manufactured	bike_brand	bike_model	bike_type	web_user_id
1	Speed Demon	https://c02.purpledshub.com/uploads/sites/39/...	1999.99	2023	Trek	Emonda	Road	1
2	Mountaineer		159.99	1999	NULL	NULL	Mountain	1
3	Black Betty	https://c02.purpledshub.com/uploads/sites/39/...	4499.99	2024	Giant	Propel	Road	1
4	Bike1	NULL	NULL	2003	Specialized	NULL	Mountain	2
5	Bike2	NULL	NULL	NULL	NULL	NULL	Road	2
6	Fixie	https://upload.wikimedia.org/wikipedia/common...	250.00	2014	NULL	NULL	Fixed	3
7	Bike3	NULL	NULL	NULL	NULL	NULL	NULL	4
8	Bike4	NULL	NULL	NULL	NULL	NULL	NULL	4
9	Bike5	NULL	NULL	NULL	NULL	NULL	NULL	5
10	Bike6	NULL	NULL	NULL	NULL	NULL	NULL	5
11	Bike7	NULL	NULL	NULL	NULL	NULL	NULL	5
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

user_bike 1 ×

Output

Action Output

#	Time	Action	Message
● 1	15:04:22	SELECT * FROM user_bike SORTED ORDER BY bike_id LIMIT 0, 1000	11 row(s) returned

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


```sql
1 • SELECT bike_name, user_email FROM user_bike, web_user WHERE user_bike.web_user_id = web_user.web_user_id ORDER BY user_email, bike_name;
```

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

bike_name	user_email
Fixie	alexfern@yahoo.com
Black Betty	evan.peachey@temple.edu
Mountaineer	evan.peachey@temple.edu
Speed Demon	evan.peachey@temple.edu
Bike1	john.peters@gmail.com
Bike2	john.peters@gmail.com
Bike3	poppyseed@temple.edu
Bike4	poppyseed@temple.edu
Bike5	tufootball@temple.edu
Bike6	tufootball@temple.edu
Bike7	tufootball@temple.edu

Result 5 ×

Output

Action Output

#	Time	Action	Message
4	10:29:33	SELECT bike_name, user_email FROM user_bike, web_user ORDER BY bike_name, user_email LIMIT 0, 1000	55 row(s) returned
5	10:32:51	SELECT bike_name, user_email FROM user_bike, web_user WHERE bike_user.web_user_id = web_user.web_user_id ORDER BY bike_name, use...	Error Code: 1064. You have an error in your SQL syntax
6	10:33:11	SELECT bike_name, user_email FROM user_bike, web_user WHERE user_bike.web_user_id = web_user.web_user_id ORDER BY bike_name, use...	Error Code: 1064. You have an error in your SQL syntax
7	10:33:40	SELECT * FROM fa24_3308_tuo18991.user_bike LIMIT 0, 1000	11 row(s) returned
8	10:34:04	SELECT bike_name, user_email FROM user_bike, web_user WHERE user_bike.web_user_id = web_user.web_user_id ORDER BY bike_name, use...	11 row(s) returned
9	10:34:27	SELECT bike_name, user_email FROM user_bike, web_user WHERE user_bike.web_user_id = web_user.web_user_id ORDER BY user_email, bik...	11 row(s) returned

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


```sql
1 •   SELECT bike_name, user_email FROM user_bike, web_user WHERE user_bike.web_user_id = web_user.web_user_id AND user_email = 'tufootball@temple.edu' ORDER BY user_email, bike_name;
```

bike_name	user_email
Bike5	tufootball@temple.edu
Bike6	tufootball@temple.edu
Bike7	tufootball@temple.edu

#	Time	Action	Message
7	10:33:40	SELECT * FROM fa24_3308_tuo18991.user_bike LIMIT 0, 1000	11 row(s) returned
8	10:34:04	SELECT bike_name, user_email FROM user_bike, web_user WHERE user_bike.web_user_id = web_user.web_user_id ORDER BY bike_name, use...	11 row(s) returned
9	10:34:27	SELECT bike_name, user_email FROM user_bike, web_user WHERE user_bike.web_user_id = web_user.web_user_id ORDER BY user_email, bik...	11 row(s) returned
10	10:41:06	SELECT bike_name, user_email FROM user_bike, web_user WHERE user_bike.web_user_id = web_user.web_user_id, web_user.user_email = tufo...	Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds to your MariaDB s
11	10:41:26	SELECT bike_name, user_email FROM user_bike, web_user WHERE user_bike.web_user_id = web_user.web_user_id, user_email.tufootball@temp...	Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds to your MariaDB s
12	10:43:13	SELECT bike_name, user_email FROM user_bike, web_user WHERE user_bike.web_user_id = web_user.web_user_id AND user_email = 'tufootball...	3 row(s) returned