

### 1. STUDENT NAME

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### 2. URL to STUDENT WEB SITE

[https://cis-linux2.temple.edu/tomcat/sp24\\_3308\\_tug44038/index.html](https://cis-linux2.temple.edu/tomcat/sp24_3308_tug44038/index.html)

### 3. user\_role TABLE DESIGN

Column Name	Datatype	PK	NN	UQ	B	UN	ZF	AI	G	Default/Expression
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"/>	<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"/>	<input type="checkbox"/>	

### 4. web\_user TABLE DESIGN and FOREIGN KEY











Table Name:

web\_user

Schema: sp24\_3308\_tug44038



Column Name	Datatype	PK	NN	UQ	B	UN	AI	G	Default/Expression
 web_user_id	INT(11)	<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"/>	
 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"/>	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"/>	NULL
 birthday	DATE	<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"/>	









Foreign Key Name	Referenced Table	Column	Referenced Column	Foreign Key Options
web_user_ibfk_1	sp24_3308_tug44038`.	<input type="checkbox"/> web_user_id <input type="checkbox"/> user_email <input type="checkbox"/> user_password <input type="checkbox"/> image <input type="checkbox"/> membership_fee <input type="checkbox"/> birthday <input checked="" type="checkbox"/> user_role_id	user_role_id	On Update: RESTRICT On Delete: RESTRICT <input type="checkbox"/> Skip in SQL generation Foreign Key Comment



ColumnsIndexesForeign KeysTriggersPartitioningOptions

ApplyRevert

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


Table Name: 
Schema: **sp24\_3308\_tug44038**


Column Name	Datatype	PK	NN	UQ	B	UN	ZF	AI	G	Default/Expression
 poem_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"/>	
 poem_name	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"/>	
 poem_text	TEXT	<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"/>	
 poem_img	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"/>	
 poem_genre	VARCHAR(20)	<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"/>	
 poem_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
 poem_rating	DECIMAL(2,1)	<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"/>	


Table Name: 
Schema: **sp24\_3308\_tug44038**


Foreign Key Name	Referenced Table	Column	Referenced Column	Foreign Key Options
poem_ibfk_1	'sp24_3308_tug44038'.	<input type="checkbox"/> poem_id <input type="checkbox"/> poem_name <input type="checkbox"/> poem_text <input type="checkbox"/> poem_img <input type="checkbox"/> poem_genre <input type="checkbox"/> poem_date <input type="checkbox"/> poem_rating <input checked="" type="checkbox"/> web_user_id	web_user_id	On Update: <input type="text" value="RESTRICT"/> On Delete: <input type="text" value="RESTRICT"/> Foreign Key Comment: ..

Columns Indexes **Foreign Keys** Triggers Partitioning Options

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

a)

6 23:29:33 INSERT INTO 'sp24\_3308\_tug44038'.user\_role ('user\_role\_id', 'user\_role\_type') ... 1062: Duplicate entry '1' for key 'PRIMARY'

b)


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

Message Log

```
Executing:
INSERT INTO `sp24_3308_tug44038`.`web_user` (`user_email`, `user_password`, `image`,
`membership_fee`, `birthday`, `user_role_id`) VALUES ('test5@gmail.com', 'test123', 'poem7.jpg',
'20.00', '2001-01-01', '3');

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
(`sp24_3308_tug44038`.`web_user`, CONSTRAINT `web_user_ibfk_1` FOREIGN KEY (`user_role_id`)
REFERENCES `user_role` (`user_role_id`))
SQL Statement:
INSERT INTO `sp24_3308_tug44038`.`web_user` (`user_email`, `user_password`, `image`,
`membership_fee`, `birthday`, `user_role_id`) VALUES ('test5@gmail.com', 'test123', 'poem7.jpg',
'20.00', '2001-01-01', '3')
```

c)

 Execute SQL Statements

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

#### Message Log

```
Executing:
DELETE FROM `sp24_3308_tug44038`.`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
(`sp24_3308_tug44038`.`web_user`, CONSTRAINT `web_user_ibfk_1` FOREIGN KEY (`user_role_id`)
REFERENCES `user_role` (`user_role_id`))
SQL Statement:
DELETE FROM `sp24_3308_tug44038`.`user_role` WHERE (`user_role_id` = '2')
```

d)

	#	Time	Action	Message	Duration / Fetch
Error Code: 1452. Cannot add or update a child row: a foreign key constraint fails (`sp24_3308_tug44038`.`poem`, CONSTRAINT `poem_ibfk_1` FOREIGN KEY (`web_user_id`) REFERENCES `web_user` (`web_user_id`))					

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

Message Log

```
Executing:
DELETE FROM `sp24_3308_tug44038`.`web_user` WHERE (`web_user_id` = '1');

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
(`sp24_3308_tug44038`.`poem`, CONSTRAINT `poem_ibfk_1` FOREIGN KEY (`web_user_id`)
REFERENCES `web_user` (`web_user_id`))
SQL Statement:
DELETE FROM `sp24_3308_tug44038`.`web_user` WHERE (`web_user_id` = '1')
```

e)

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.

```
1 • SELECT * FROM sp24_3308_tug44038.user_role ORDER BY user_role_id;
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: |

user_role_id	user_role_type
1	admin
2	member
NULL	NULL

Result Grid  
Form Editor

a)

Limit to 1000 rows

```
1 • SELECT * FROM sp24_3308_tug44038.web_user ORDER BY web_user_id;
```

Result Grid

	web_user_id	user_email	user_password	image	membership_fee	birthday	user_role_id
▶	1	logs125@gmail.com	test123	poem1.jpg	0.00	1998-01-05	1
	2	test1@gmail.com	test123	poem2.jpg	20.00	2003-12-01	2
	3	test2@gmail.com	test123	poem3.jpg	20.00	1992-12-01	2
	4	test3@gmail.com	test123	poem4.jpg	20.00	1999-12-01	2
	5	test4@gmail.com	test123	poem5.jpg	20.00	2001-12-01	2
	7	test5@gmail.com	test123	NULL	NULL	NULL	2
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL

b)

web\_user 2 x

Limit to 1000 rows

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

Result Grid

	user_role_type	user_email
▶	admin	logs125@gmail.com
	member	test1@gmail.com
	member	test2@gmail.com
	member	test3@gmail.com
	member	test4@gmail.com
	member	test5@gmail.com

Result 5 x Read Only

Output

Action Output

#	Time	Action	Message
1	00:15:57	SELECT user_role.user_role_type, user_email FROM web_user INNER JOIN user_role...	6 row(s) returned

c)

f)

Limit to 1000 rows

```

1 • SELECT *
2 FROM poem
3 ORDER BY poem_id;
4
5

```

Result Grid

poem_id	poem_name	poem_text	poem_img	poem_ge
1	The Road Not Taken	Two roads di...	random-ize.com/random-art-gallery/sposalizio-d...	narrative
2	The New Colossus	Not like the b...	https://random-ize.com/random-art-gallery/bat...	lyric
3	Ozymandias	I met a trave...	https://random-ize.com/random-art-gallery/the...	lyric
4	Ode on a Grecian Urn	Thou still unr...	https://random-ize.com/random-art-gallery/tras...	ekphrastic
5	The Tiger	Tiger Tiger, b...	https://random-ize.com/random-art-gallery/bal...	ekphrastic
6	On His Blindness	When I consi...	https://random-ize.com/random-art-gallery/milit...	lyric
7	A Psalm of Life	What the he...	https://random-ize.com/random-art-gallery/milit...	lyric
8	Daffodils	I wandered l...	https://random-ize.com/random-art-gallery/the...	lyric
9	Holy Sonnet 10: Death, Be Not Proud	Death, be no...	https://random-ize.com/random-art-gallery/ser...	lyric
10	Sonnet 18	Shall I compa...	https://random-ize.com/random-art-gallery/dea...	lyric

g)

Limit to 1000 rows

```

1 • SELECT poem.poem_id, poem.poem_name, web_user.*
2 FROM poem
3 JOIN web_user
4 ON poem.web_user_id = web_user.web_user_id;
5

```

Result Grid

poem_id	poem_name	web_user_id	user_email	user_password	image	membr
1	The Road Not Taken	1	logs125@gmail.com	test123	poem1.jpg	0.00
2	The New Colossus	1	logs125@gmail.com	test123	poem1.jpg	0.00
3	Ozymandias	1	logs125@gmail.com	test123	poem1.jpg	0.00
4	Ode on a Grecian Urn	1	logs125@gmail.com	test123	poem1.jpg	0.00
5	The Tiger	1	logs125@gmail.com	test123	poem1.jpg	0.00
6	On His Blindness	1	logs125@gmail.com	test123	poem1.jpg	0.00
7	A Psalm of Life	2	test1@gmail.com	test123	poem2.jpg	20.00
8	Daffodils	2	test1@gmail.com	test123	poem2.jpg	20.00
9	Holy Sonnet 10: Death, Be Not Proud	1	logs125@gmail.com	test123	poem1.jpg	0.00
10	Sonnet 18	1	logs125@gmail.com	test123	poem1.jpg	0.00



h)

The screenshot shows a database query editor interface. At the top, there is a toolbar with various icons for file operations, execution, and search. Below the toolbar, a SQL query is entered in a text area. The query is as follows:

```
1 • SELECT poem.poem_id, poem.poem_name, web_user.web_user_id, web_user.user_email
2 FROM poem
3 JOIN web_user
4 ON poem.web_user_id = web_user.web_user_id
5 WHERE poem.poem_genre = 'lyric'
6 ORDER BY poem.poem_id;
7
8
```

Below the query editor, there is a "Result Grid" section. It includes a "Filter Rows:" field, an "Export:" button, and a "Wrap Cell Content:" checkbox. The results are displayed in a table with the following columns: poem\_id, poem\_name, web\_user\_id, and user\_email.

poem_id	poem_name	web_user_id	user_email
2	The New Colossus	1	logs125@gmail.com
3	Ozymandias	1	logs125@gmail.com
6	On His Blindness	1	logs125@gmail.com
7	A Psalm of Life	2	test1@gmail.com
8	Daffodils	2	test1@gmail.com
9	Holy Sonnet 10: Death, Be Not Proud	1	logs125@gmail.com
10	Sonnet 18	1	logs125@gmail.com

On the right side of the interface, there is a vertical toolbar with icons for "Result Grid", "Form Editor", and "Field Types". At the bottom, there is a status bar that says "Result 3 x" and "Read Only".