




1. STUDENT NAME

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2. URL to STUDENT WEB SITE

http://cis-linux2.temple.edu:8080/SP22_3344_tuj87538/hw8/index.html#/home

3. user_role TABLE DESIGN

	Table Name: <div>user_role</div>	Schema: SP22_3344_tuj87538								
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"/>	
		<input type="checkbox"/>	<input type="checkbox"/>	<input 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: **SP22_3344_tuj87538**

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 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 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"/>	

5. "OTHER" TABLE DESIGN and FOREIGN KEY







Table Name:

Schema: **SP22_3344_tuj87538**

Collation:

Engine:

Comments:

Column Name	Datatype	PK	NN	UQ	B	UN	ZF	AI	G	Default/Expression
 post_id	INT(10)	<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"/>	
 car_model	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"/>	
 car_year	INT(4)	<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
 car_price	DECIMAL(10,2)	<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
 user_rating	INT(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"/>	
 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"/>	

6. DATA ENTRY ERRORS

a) Error: Duplicate user_role PK

```
115 INSERT INTO `SP22_3344_tuj87538`.`user_role`  
116   (`user_role_id`,  
117   `user_role_type`)  
118   VALUES  
119   (1,  
120   "admin");  
121
```

Output

Action Output

#	Time	Action	Message
1	19:14:03	select * from user_role LIMIT 0, 1000	10 row(s) returned
2	19:14:23	INSERT INTO `SP22_3344_tuj87538`.`user_role` (`user_role_id`, `user_role_type`) VALUES (1, "admin")	Error Code: 1062. Duplicate entry '1' for key 'PRIMARY'

b) Error: Invalid user_role FK in web_user record

```

1 • SELECT * FROM SP22_3344_tuj87538.web_user;
2
3 • INSERT INTO `SP22_3344_tuj87538`.`web_user`
4   (`user_email`,
5    `user_password`,
6    `image`,
7    `membership_fee`,
8    `birthday`,
9    `user_role_id`)
10  VALUES
11  ("error123@gmail.com", "passerror", "image102.png", 0.20, 12/01/1999, 10)
12  ;

```

Result Grid

	web_user_id	user_email	user_password	image	membership_fee	birthday	user_role_id
1	1	abc123@gmail.com	pass123	image1.png	15.20	0000-00-00	1
2	2	abc1234@gmail.com	pass1234	doc.png	10.20	0000-00-00	2
3	3	test123@gmail.com	passabc123	image5.png	NULL	0000-00-00	3
4	4	abc0123@gmail.com	passabc1234	image4.png	15.20	NULL	4
5	5	test01@gmail.com	pass123	image3.png	15.20	0000-00-00	5
	NULL	NULL	NULL	NULL	NULL	NULL	NULL

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

```

13 • DELETE FROM web_user.user_role_id
14   WHERE user_role_id = 2;
15
16
17
18

```

Result Grid

	web_user_id	user_email	user_password	image	membership_fee	birthday	user_role_id
1	1	abc123@gmail.com	pass123	image1.png	15.20	0000-00-00	1
2	2	abc1234@gmail.com	pass1234	doc.png	10.20	0000-00-00	2
3	3	test123@gmail.com	passabc123	image5.png	NULL	0000-00-00	3
4	4	abc0123@gmail.com	passabc1234	image4.png	15.20	NULL	4
5	5	test01@gmail.com	pass123	image3.png	15.20	0000-00-00	5
	NULL	NULL	NULL	NULL	NULL	NULL	NULL

web_user_16 x

Output

#	Time	Action	Message
1	16:30:22	DELETE FROM web_user.user_role_id WHERE user_role_id = 2	Error Code: 1142. DELETE command denied to user 'tj87538'@'localhost' for table 'user_role_id'
2	16:30:47	SELECT * FROM SP22_3344_tuj87538.web_user LIMIT 0, 1000	5 row(s) returned

d) Invalid web_user FK in "other" record

```

1 • INSERT INTO `SP22_3344_tuj87538`.`car_post`
2   (`post_ID`,
3    `car_model`,
4    `car_year`,
5    `car_price`,
6    `user_rating`,
7    `web_user_id`)
8  VALUES
9  (1, "Toyota", 2004, 32.02, 9, 8);
10

```

2 20:55:21 INSERT INTO 'SP22_3344_tuj87538' 'car_post' ('post_ID', 'car_model', 'car_year', 'car_price', 'user_rating', 'web_user_id') VALUES (1, "Toyota", 2004, 32.02, 9, 8); Error Code: 1452. Cannot add or update a child row: a foreign key constraint fails ('SP22_3344_tuj87538' 'car_post', CONSTRAINT 'car_post_fk_1' FOREIGN KEY ('web_user_id') REFERENCES 'web_user' ('user_id'))

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

```

120 INSERT INTO "SP22_3344_tu87538"."web_user"
121 (
122     user_email,
123     membership_fee,
124     user_role_id)
125 VALUES
126 ("zy321@gmail.com",
127     34.55,
128     938);
129
130
131
132
133

```

Output

#	Time	Action	Message
1	19:18:54	INSERT INTO "SP22_3344_tu87538"."web_user" ("user_email", "membership_fee", "user_role_id") VALUES ("zy321@gmail.com", 34.55, 938)	Error Code: 1452. Cannot add or update a child row: a foreign key constraint fails ("SP22_3344_tu87538"."web_user", CONSTRAINT "web_user_bfk_1" F...

7. SELECT STATEMENTS

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

```

1 SELECT *
2 FROM user_role
3 ORDER BY user_role_id asc;

```

Result Grid

user_role_id	user_role_type
1	Admin
2	User
3	Viewer
4	Voter
5	Waiter
NULL	NULL

user_role 4 x

Output

#	Time	Action	Message
1	16:40:13	SELECT * FROM user_role ORDER BY user_role_id asc LIMIT 0, 1000	5 row(s) returned

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

```

5 SELECT *
6 FROM web_user
7 ORDER BY web_user_id asc;

```

Result Grid

web_user_id	user_email	user_password	image	membership_fee	birthday	user_role_id
1	abc123@gmail.com	pass123	image.png	15.20	0000-00-00	1
2	abce1234@gmail.com	pass1234	doc.png	10.20	0000-00-00	2
3	test123@gmail.com	passabc123	image5.png	NULL	0000-00-00	3
4	abc0123@gmail.com	passabc1234	image4.png	15.20	NULL	4
5	test01@gmail.com	passtest	image3.png	15.20	0000-00-00	5
NULL	NULL	NULL	NULL	NULL	NULL	NULL

web_user 5 x

Output

#	Time	Action	Message
1	16:40:13	SELECT * FROM user_role ORDER BY user_role_id asc LIMIT 0, 1000	5 row(s) returned
2	16:41:22	SELECT * FROM web_user ORDER BY web_user_id asc LIMIT 0, 1000	5 row(s) returned

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

```

20 • SELECT user_email, user_role_type, membership_fee
21 FROM web_user INNER JOIN user_role ON web_user.user_role_id = user_role.user_role_id
22 order by membership_fee;
23

```

user_email	user_role_type	membership_fee
test123@gmail.com	Viewer	NULL
useremail4@gmail.com	Customer S	0.00
useremail3@gmail.com	HR	0.00
useremail2@gmail.com	Employee	0.00
useremail1@gmail.com	Supervisor	0.00
useremail@gmail.com	Manager	0.00
abce1234@gmail.com	User	10.20
123abc@yahoo.com	Admin	14.99
test01@gmail.com	Waiter	15.20
abc0123@gmail.com	Voter	15.20

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

```

40 • select *
41 from car_post
42 order by post_id;
43

```

post_ID	car_model	car_year	car_price	user_rating	web_user_id	car_pic
30	Acura	2005	3200.00	5	1	NULL
31	Tovota	2000	1500.59	9	2	4runner.png
48	Nissan	1995	32500.99	8	3	GTR R34.png
49	Mitsubishi	1998	21050.00	7	4	Evolution lancer.png
55	Tovota	1999	83340.59	8	7	redsupra.png
56	Ford	2019	32000.00	7	8	mustang.png
57	Honda	2000	18500.59	9	9	s2000.png
58	Acura	2000	87529.89	10	10	nsx.png
59	BMW	0	0.00	7	11	M3.png
NULL	NULL	NULL	NULL	NULL	NULL	NULL

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

```





44 • select distinct *
45 from car_post inner join web_user on web_user.web_user_id = car_post.web_user_id
46 group by post_id;

```

post_ID	car_model	car_year	car_price	user_rating	web_user_id	car_pic	web_user_id	user_email	user_password	image	membership_fee	birthday	user_role_id
30	Acura	2005	3200.00	5	1	NULL	1	123abc@yahoo.com	vahooow	image001.png	14.99	0000-00-00	1
31	Tovota	2000	1500.59	9	2	4runner.png	2	abce1234@gmail.com	pass1234	doc.png	10.20	0000-00-00	2
48	Nissan	1995	32500.99	8	3	GTR R34.png	3	test123@gmail.com	passabc123	image5.png	NULL	0000-00-00	3
49	Mitsubishi	1998	21050.00	7	4	Evolution lancer.png	4	abc0123@gmail.com	passabc1234	image4.png	15.20	NULL	4
55	Tovota	1999	83340.59	8	7	redsupra.png	7	useremail@gmail.com	password	image6.png	0.00	0000-00-00	6
56	Ford	2019	32000.00	7	8	mustang.png	8	useremail1@gmail.com	password1	image7.png	0.00	0000-00-00	7
57	Honda	2000	18500.59	9	9	s2000.png	9	useremail2@gmail.com	password2	image8.png	0.00	0000-00-00	8
58	Acura	2000	87529.89	10	10	nsx.png	10	useremail3@gmail.com	password3	image9.png	0.00	0000-00-00	9
59	BMW	0	0.00	7	11	M3.png	11	useremail4@gmail.com	password4	image10.png	0.00	0000-00-00	10

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

```
48 • select distinct post_id, car_model, car_year, user_role_id, user_email
49 from car_post inner join web_user on web_user.web_user_id = car_post.web_user_id
50 where car_price > 20000.00
51 group by post_id;
52
```

Result Grid   Filter Rows: <input type="text"/>					
Export:  Wrap Cell Content: 					
	post_id	car_model	car_year	user_role_id	user_email
	48	Nissan	1995	3	test123@gmail.com
	49	Mitsubishi	1998	4	abc0123@gmail.com
	55	Tovota	1999	6	useremail@gmail.com
	56	Ford	2019	7	useremail1@gmail.com
	58	Acura	2000	9	useremail3@gmail.com