



- 1) Ayser Jamshidi
- 2) http://cis-linux2.temple.edu:8080/fa21_3308_tuk51981
- 3) user_role TABLE DESIGN

Query 1 user_role - Table x

Table Name: Schema: **fa21_3308_tuk51981**

Collation: Engine:

Comments:

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

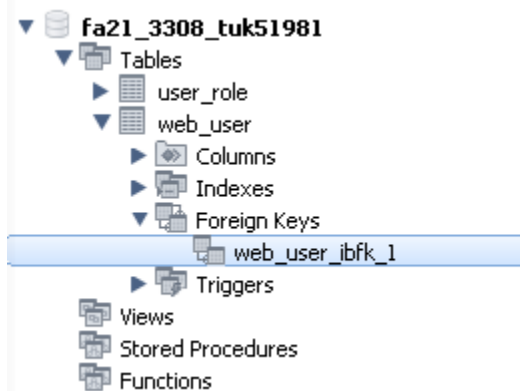
Query 1 web_user - Table x

Table Name: Schema: **fa21_3308_tuk51981**

Collation: Engine:

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 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"/>	
 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"/>	
 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"/>	
 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"/>	
		<input type="checkbox"/>	<input 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

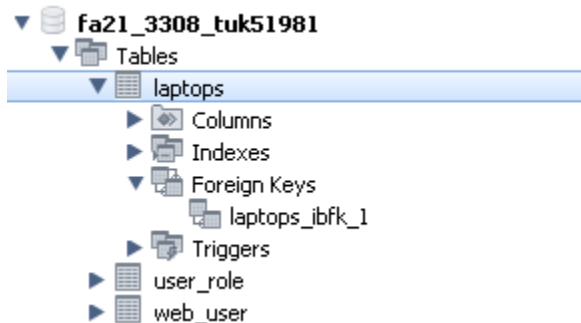


Table Name: Schema: **fa21_3308_tuk51981**

Collation: Engine:

Comments:

Column Name	Datatype	PK	NN	UQ	B	UN	ZF	AI	G	Default/Expression
laptop_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"/>	
name	VARCHAR(24)	<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"/>	
imageURL	VARCHAR(256)	<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"/>	
releasedate	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
price	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"/>	NULL
likes	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"/>	
dislikes	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"/>	
averagerating	DECIMAL(3,2)	<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"/>	
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"/>	
		<input type="checkbox"/>	<input 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

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

Message Log

```

Executing:
UPDATE `fa21_3308_tuk51981`.`user_role` SET `user_role_id`='1' WHERE `user_role_id`='2';

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:
UPDATE `fa21_3308_tuk51981`.`user_role` SET `user_role_id`='1' WHERE `user_role_id`='2'
    
```

b) Error: Invalid user_role FK in web_user record

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:
INSERT INTO `fa21_3308_tuk51981`.`web_user` (`user_email`, `user_password`, `image`,
`membership_fee`, `birthday`, `user_role_id`) VALUES ('bad1@nut.com', '123', 'url', '0',
'0000-00-00', '3');

ERROR 1452: 1452: Cannot add or update a child row: a foreign key constraint fails
(`fa21_3308_tuk51981`.`web_user`, CONSTRAINT `web_user_ibfk_1` FOREIGN KEY
(`user_role_id`) REFERENCES `user_role` (`user_role_id`))
SQL Statement:
INSERT INTO `fa21_3308_tuk51981`.`web_user` (`user_email`, `user_password`, `image`,
`membership_fee`, `birthday`, `user_role_id`) VALUES ('bad1@nut.com', '123', 'url', '0',
'0000-00-00', '3')
```

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

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:
DELETE FROM `fa21_3308_tuk51981`.`user_role` WHERE `user_role_id`='2';

ERROR 1451: 1451: Cannot delete or update a parent row: a foreign key constraint fails
(`fa21_3308_tuk51981`.`web_user`, CONSTRAINT `web_user_ibfk_1` FOREIGN KEY
(`user_role_id`) REFERENCES `user_role` (`user_role_id`))
SQL Statement:
DELETE FROM `fa21_3308_tuk51981`.`user_role` WHERE `user_role_id`='2'
```

d) Invalid web_user FK in "other" record

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 `fa21_3308_tuk51981`.`laptops` SET `web_user_id`='13' WHERE `laptop_id`='17';

ERROR 1452: 1452: Cannot add or update a child row: a foreign key constraint fails
(`fa21_3308_tuk51981`.`laptops`, CONSTRAINT `laptops_ibfk_1` FOREIGN KEY (`web_user_id`)
REFERENCES `web_user` (`web_user_id`))
SQL Statement:
UPDATE `fa21_3308_tuk51981`.`laptops` SET `web_user_id`='13' WHERE `laptop_id`='17'
```

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

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

Message Log

```
Executing:
DELETE FROM `fa21_3308_tuk51981`.`web_user` WHERE `web_user_id`='12';

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
(`fa21_3308_tuk51981`.`laptops`, CONSTRAINT `laptops_ibfk_1` FOREIGN KEY (`web_user_id`)
REFERENCES `web_user` (`web_user_id`))
SQL Statement:
DELETE FROM `fa21_3308_tuk51981`.`web_user` WHERE `web_user_id`='12'
```

7) SELECT STATEMENTS

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

The screenshot shows a SQL query editor window with a toolbar at the top containing icons for file operations, execution, and navigation. The query text is as follows:

```

1 SELECT *
2 FROM fa21_3308_tuk51981.user_role;

```

Below the query editor is a horizontal scrollbar. At the bottom, the "Result Grid" tab is active, displaying the query results in a table with two columns: "user_role_id" and "user_role_type".

user_role_id	user_role_type
1	testRole1
2	testRole2
NULL	NULL

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

[illegible]

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

Query 1 x web_user user_role

```

1 • SELECT user_role_type, user_email
2 FROM web_user, user_role
3 WHERE user_role.user_role_id = web_user.user_role_id;

```

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

user_role_type	user_email
admin	tuk51981@temple.edu
testRole1	test1@nut.com
testRole1	test2@nut.com
testRole1	test3@nut.com
testRole2	test4@nut.com
testRole2	test5@nut.com

Result Grid
Form Editor

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

Query 1 x laptops

```

1 • SELECT * FROM laptops

```

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

laptop_id	name	modelName	imageUrl	releasedate	price	likes	dislikes	averagerating
1	ASUS - ROG Zenhvrus 15.6" QHD Ga...	GA503OR-211.7G15	https://isres.bb...	2021-05-26	1850	0	0	0.00
2	ASUS - ROG Zenhvrus 14" Gaminn I...	GA401OM-211.7G14	https://isres.bb...	2021-05-26	1550	0	0	0.00
6	ASUS - ROG 16" WOXGA 165Hz Gam...	GI1603HM-211.7M16	https://isres.bb...	2021-05-26	1850	0	0	0.00
7	ASUS - ROG Zenhvrus G14 14" Lant...	GA401OH-211.7G14R	https://isres.bb...	2021-05-26	1150	0	0	0.00
8	ASUS - ROG Strix G15 Advantane Edi...	G513OY-212.5G15	https://isres.bb...	2021-03-02	1650	0	0	0.00
9	ASUS - ROG 13.4" Touchscreen Gam...	GV301OF-211.7G13	https://isres.bb...	2021-05-26	1500	0	0	0.00
10	ASUS - ROG 16" WUXGA 144Hz Gami...	GI1603HF-211.7M16	https://isres.bb...	2021-05-26	1450	0	0	0.00
11	ASUS - TUF DASH 15.6" Gaminn I ant...	FX516PM-211.TF15	https://isres.bb...	2021-05-26	1100	0	0	0.00
16	ASUS - TUF Gaminn 17.3" Lanton - I...	FX706HF-211.TM17	https://isres.bb...	2021-03-08	1000	0	0	0.00
17	ASUS - ROG Zenhvrus G14 14" Lant...	GA401TH-RR7N2R	https://isres.bb...	2021-05-26	1100	0	0	0.00
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

laptops 1 x

Output

Action Output

#	Time	Action	Message
21	21:06:52	Apply changes to laptops	Changes applied
22	21:10:52	UPDATE `fa21_3308_tuk51981`.`laptops` SET `web_user_id`='13' WHERE `laptop_id` ...	1452: Cannot add or update a child row: a foreign key constraint fails (`fa
23	21:11:38	SELECT * FROM fa21_3308_tuk51981.web_user LIMIT 0, 1000	6 row(s) returned
24	21:11:52	DELETE FROM `fa21_3308_tuk51981`.`web_user` WHERE `web_user_id`='12'	1451: Cannot delete or update a parent row: a foreign key constraint fails
25	21:15:30	SELECT * FROM laptops LIMIT 0, 1000	10 row(s) returned

Apply Revert

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

Query 1 x laptops

Limit to 1000 rows

```

1 • SELECT name, price, user_email
2 FROM laptops, web_user
3 WHERE laptops.web_user_id = web_user.web_user_id
4 ORDER BY name, price;

```

Result Grid

	name	price	user_email
	ASUS - ROG 13.4" Touchscreen Gami...	1500	hik51981@temple.edu
	ASUS - ROG 16" WOXGA 165Hz Gam...	1850	hik51981@temple.edu
	ASUS - ROG 16" WUXGA 144Hz Gami...	1450	hik51981@temple.edu
	ASUS - ROG Strix G15 Advantane Eri...	1650	hik51981@temple.edu
	ASUS - ROG Zenhvrus 14" Gamin...	1550	hik51981@temple.edu
	ASUS - ROG Zenhvrus 15.6" OHG Ga...	1850	hik51981@temple.edu
	ASUS - ROG Zenhvrus G14 14" Lant...	1150	hik51981@temple.edu
	ASUS - ROG Zenhvrus G14 14" Lant...	1100	hik51981@temple.edu
	ASUS - TUF DASH 15.6" Gamin...	NULL	hik51981@temple.edu
	ASUS - TUF Gamin 17.3" Lant...	1000	hik51981@temple.edu

Result 3 x Read Only

Output

Action Output

#	Time	Action	Message
✓ 23	21:11:38	SELECT * FROM fa21_3308_tuk51981.web_user LIMIT 0, 1000	6 row(s) returned
✗ 24	21:11:52	DELETE FROM `fa21_3308_tuk51981`.`web_user` WHERE `web_user_id`='12'	1451: Cannot delete or update a parent row: a foreign key constraint fails
✓ 25	21:15:30	SELECT * FROM laptops LIMIT 0, 1000	10 row(s) returned
✓ 26	21:36:49	SELECT name, modelnumber, price FROM laptops, web_user WHERE laptops.web_us...	10 row(s) returned
✓ 27	21:39:00	SELECT name, price, user_email FROM laptops, web_user WHERE laptops.web_user_j...	10 row(s) returned

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

Query 1 x laptops

Limit to 1000 rows

```

1 • SELECT name, price, user_email
2 FROM laptops, web_user
3 WHERE laptops.web_user_id = web_user.web_user_id AND price > 1300
4 ORDER BY name, price;

```

Result Grid

	name	price	user_email
	ASUS - ROG 13.4" Touchscreen Gami...	1500	hik51981@temple.edu
	ASUS - ROG 16" WOXGA 165Hz Gam...	1850	hik51981@temple.edu
	ASUS - ROG 16" WUXGA 144Hz Gami...	1450	hik51981@temple.edu
	ASUS - ROG Strix G15 Advantane Eri...	1650	hik51981@temple.edu
	ASUS - ROG Zenhvrus 14" Gamin...	1550	hik51981@temple.edu
	ASUS - ROG Zenhvrus 15.6" OHG Ga...	1850	hik51981@temple.edu

Result 4 x Read Only

Output

Action Output

#	Time	Action	Message
✗ 24	21:11:52	DELETE FROM `fa21_3308_tuk51981`.`web_user` WHERE `web_user_id`='12'	1451: Cannot delete or update a parent row: a foreign key constraint fails
✓ 25	21:15:30	SELECT * FROM laptops LIMIT 0, 1000	10 row(s) returned
✓ 26	21:36:49	SELECT name, modelnumber, price FROM laptops, web_user WHERE laptops.web_us...	10 row(s) returned
✓ 27	21:39:00	SELECT name, price, user_email FROM laptops, web_user WHERE laptops.web_user_j...	10 row(s) returned
✓ 28	21:42:01	SELECT name, price, user_email FROM laptops, web_user WHERE laptops.web_user_j...	6 row(s) returned