1. STUDENT NAME 2. URL to STUDENT WEB SITE 3. user\_role TABLE DESIGN 4. web\_user TABLE DESIGN and FOREIGN KEY 5. "OTHER" TABLE DESIGN and FOREIGN KEY 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 d) Invalid web\_user FK in "other" record e) Error trying to delete a web\_user record that's referenced by an "other" record 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. f) "OTHER": all rows, all columns, sorted by the id of your "other" table. g) "OTHER" JOINED WITH WEB\_USER all rows, certain columns, sorted. h) "OTHER" JOINED WITH WEB\_USER some rows, certain columns, sorted.

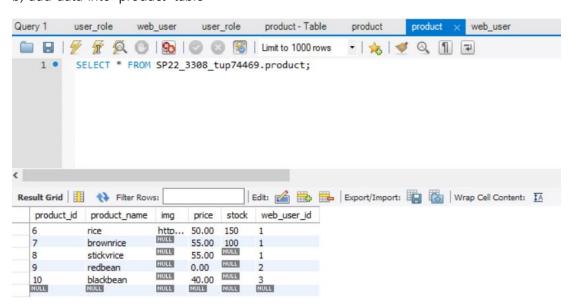
```
Product Table
-product_id int(11) (PRIMARY KEY)
-product_name varchar(45)
-img varchar(300)
-price decimal(8,2)
-stock int (11)
-web_user_id (11) (FOREIGN KEY)
```

```
CREATE TABLE `SP22_3308_tup74469`.`product` (
          product_id' INT(11) NOT NULL AUTO_INCREMENT,
 2
 3
          product_name' VARCHAR(45) NOT NULL,
4
          img VARCHAR(300) NULL,
          price' DECIMAL(8,2) NULL,
 5
         'stock' INT(11) NULL,
'web_user_id' INT(11) NOT NULL,
6
 7
8
         PRIMARY KEY ('product_id'),
        UNIQUE INDEX 'product_name_UNIQUE' ('product_name' ASC));
9
10
```

a) add foreign key from 'product' table to web\_user



b) add data into 'product' table



## >> try to add 'product' with an invalid web\_user\_id 8 , then FK violation error

```
INSERT INTO `SP22_3308_tup74469`.`product` (`product_name`, `price`, `web_user_id`) VALUES ('pepper', '30', '8');

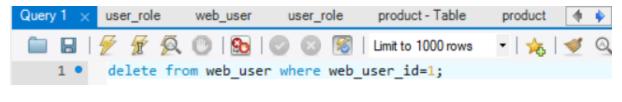
Error: There was an error while applying the SQL script to the database.

Message Log

Executing:
INSERT INTO `SP22_3308_tup74469`.`product` (`product_name`, `price`, `web_user_id`) VALUES ('pepper', '30', '8');

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_tup74469`.`product`, CONSTRAINT `product_ibfk_2` FOREIGN KEY ('web_user_id') REFERENCES `web_user' ('web_user_id'))
SQL Statement:
INSERT INTO `SP22_3308_tup74469`.`product` ('product_name`, `price`, `web_user_id') VALUES ('pepper', '30', '8')
```

## >> try to delete referenced web\_user record, then error

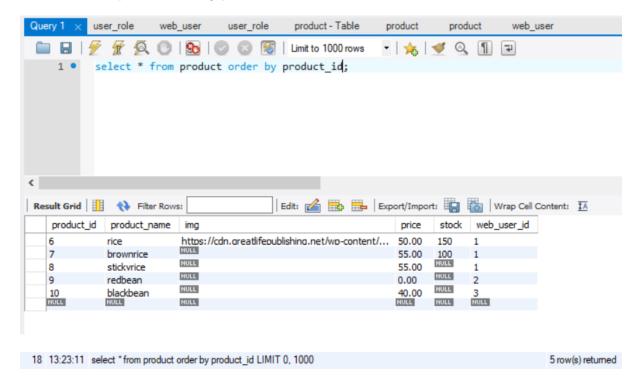


17 13:22:09 delete from web\_user where web\_user\_id=1

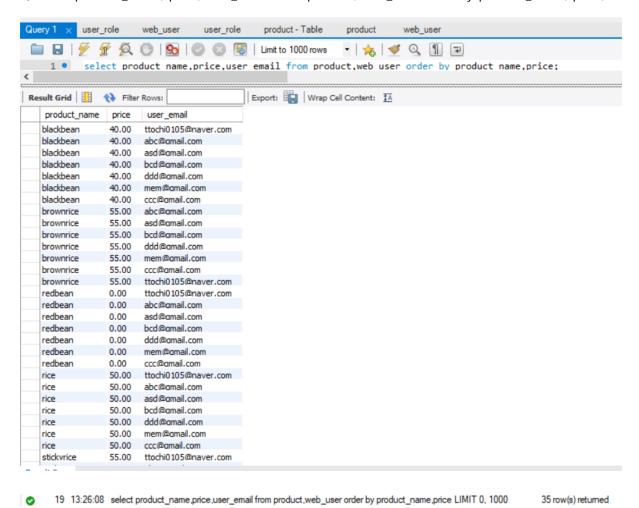
Error Code: 1451. Cannot delete or update a parent row: a foreign key constraint fails ('SP2

## c) Run SQL select statement

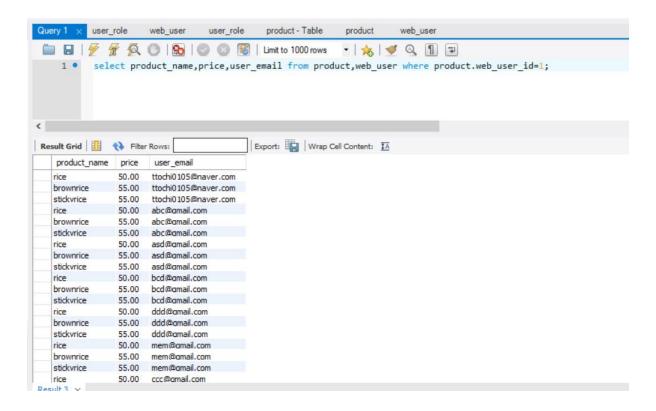
1) select \* from product (sort by product\_id)



2) select product\_name, price, user\_email from product, web\_user order by product\_name, price;



3) select product\_name, price, user\_email from product,web\_user where product.web\_user\_id=1;



21 13:31:38 select product\_name.price,user\_email from product,web\_user where product.web\_user\_id=1 LIMIT 0, 1000 21 row(s) returned