5 SQL Commands

We're going to have an account system. The accounts have subtypes (student and owner), but share the username and password type.

```
INSERT INTO Account VALUES ('$username', '$password')
```

"Username", "password" arephp variables. Username and password will be user created, but the sid (student id) should be autocreated. Inserts into the Account table

```
SELECT restaurant name FROM Restaurant
```

Selects all restaurant names. The names should not be unique, so we should expect duplicates.

```
UPDATE Review SET description = '$content' WHERE description =
'$old content'
```

Similar to the provided examples, I want the user to be able to edit reviews. This allows them to do so.

SELECT review_id, description FROM Reviews WHERE sid = '\$provided';

This grabs all reviews from a specific student. This way the students can be moderated, we may add a delete feature in the near future or have "rated" reviewers.

```
SELECT MAX(rating) as `Top Rating`, restaurant_name FROM Restaurant R,
Review R2 Where R2.restaurant_ID = R.restaurant_ID GROUP BY
R.restaurant_ID
```

The following command should get the max rated review from each restaurant and group them by restaurant_id. Note that if multiple reviews have given the top score, it will simply grab one and not choose between them.

Triggers/Functions

```
CREATE TRIGGER CheckRating BEFORE INSERT ON Review

BEGIN

IF new.rating < 0 OR new.rating > 5 THEN

SIGNAL SQLSTATE "45000"

SET MESSAGE_TEXT = "Rating must be above 0 and less than 5";

END IF;

END
```

Basically we want to make sure that all review scores are between 0 and 5. Because they can edit their review scores, it may be best to create a trigger that has the same condition. Alternatively, we could restrict options via some html/php, but this is just some basic error-checking.

Here's the other version of the trigger on update above.

This function will rank restaurants based on their reviews. This way people can see the general consensus without going through too many reviews. It has a case where there are none, so fresh restaurants should show up with a "No Reviews" marker.

```
DELIMITER $$
CREATE DEFINER=`cs340 huangmic`@`%` FUNCTION `restaurantRank`(`x`
VARCHAR(6)) RETURNS varchar(10) CHARSET utf8
BEGIN
     declare average decimal(3,2);
    SELECT AVG(rating) INTO average FROM Review R, Restaurant R1 WHERE
    R1.restaurant ID = R.restaurant ID AND X = R1.restaurant.ID GROUP
BY R1.restaurant ID;
    IF average IS NULL THEN
     RETURN 'No Reviews';
    END IF;
    IF average > 4.0 THEN
     RETURN "GREAT";
    END IF;
    IF average > 2.5 THEN
     RETURN "GOOD";
    END IF;
    RETURN 'BAD';
END$$
DELIMITER ;
```

Pages

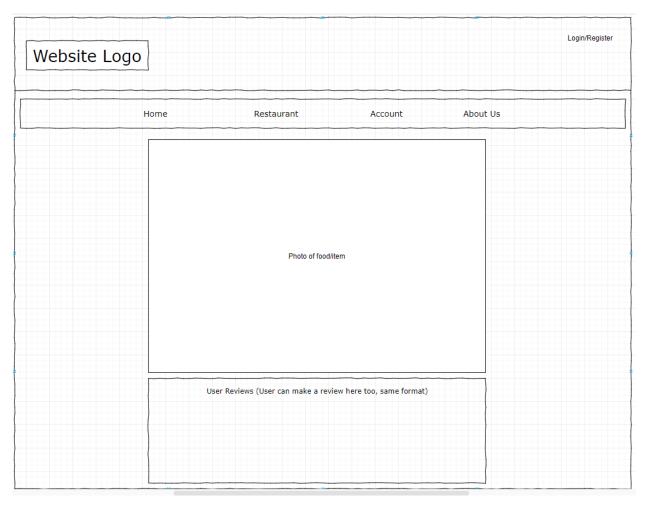
I just want to cover one thing overall with each page. Once login occurs, we want to store the related student name from that username.

Select sname FROM Student where Account ID = \$account id User Name Website Logo Logout About Us Home Restaurant Account Restaurant Photo Top review Menu Items? Owner Provided Description Reviews (spans downward) (Leave a Review is on the bottom) Review Format: item ID Review Content (description) Contact Restaurant (Email)

- Menu items and reviews should be a simple query.
 - o Select item_name from Restaurant Natural Join Item Where restaurant_id = \$specficpage

 - Our where clause should be focused on the page we're on.
- We have not added an attribute for the contact info, however it'd just be a simple query. More than likely, the final draft will NOT include that block.
- However, we do intend default to have the max review, we can reference the select statement below for this.

- SELECT MAX(rating) as `Top Rating`, restaurant_name FROM Restaurant R, Review R2 Where R2.restaurant_ID = R.restaurant_ID GROUP BY R.restaurant ID
 - Gives us the max reviews for all pages. Like before, we can divide this to a specific page OR we can store all the results and play with them beforehand.



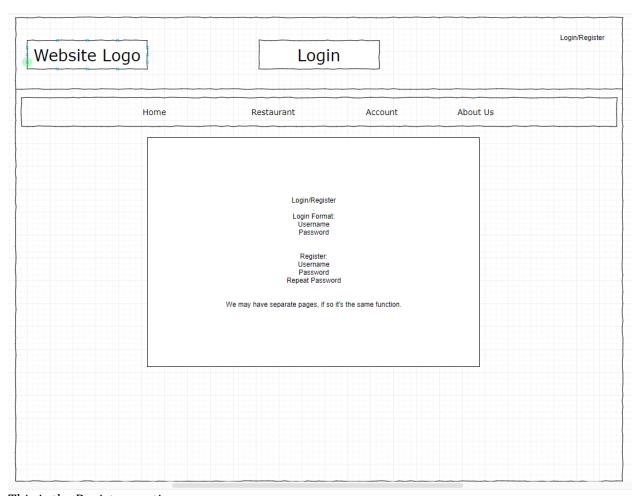
- This is the item page.
 - We are optionally supporting a picture, but if we were to do that, we'd need to setup
 a php variable that holds a query result. In this case, just getting the related ID is
 fine.
 - o Select item_id FROM Item where item_id = \$id
 - We could also try uploading a photo to the db, although I'm not sure if myphpadmin supports that. We could alternatively try using html mixups to find a way to reference the picture using the result we receive from the select statement.
 - The list of item reviews
 - Select sname, item_name, rating FROM Review NATURAL JOIN Item ID NATURAL JOIN Student
 - o Quick reminder that you might have the "student" db from an earlier assignment, delete that or rename it.

Website Logo	Title	Login/Register
Н	Iome Restaurant Account About Us	
	Picture (OSU probably), this block is optional	
	Generic description of what the website does.	

No SQL

Website Logo	The Team	Login/Register
Hon	e Restaurant Account About Us	
	Contact Info for developers	

No SQL



This is the Register portion.

INSERT INTO Account VALUES ('\$username', '\$password')

This is the login portion

Select username, password FROM Account where username =
\$username AND password = \$password

If a result is returned, then we are good. Otherwise the login should fail. The result returned is either the username OR the account ID, we haven't quite decided yet.