

VR kitchen

Team Zero

Team Graph



Content

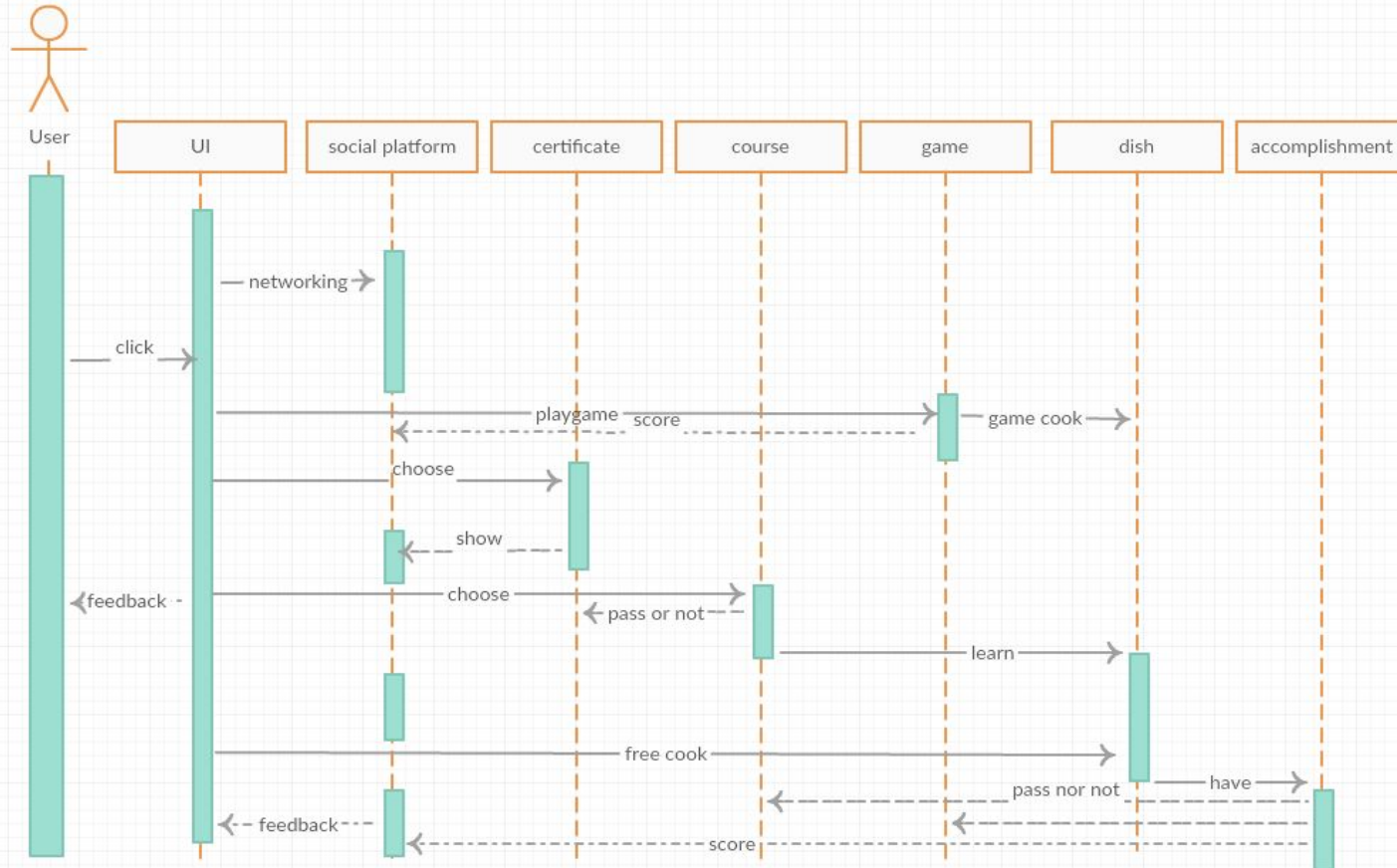
- Objectives and Features
- Sequential Diagram & Use Case
- Certificate
- Game mode
- Cooking process
- Social platform

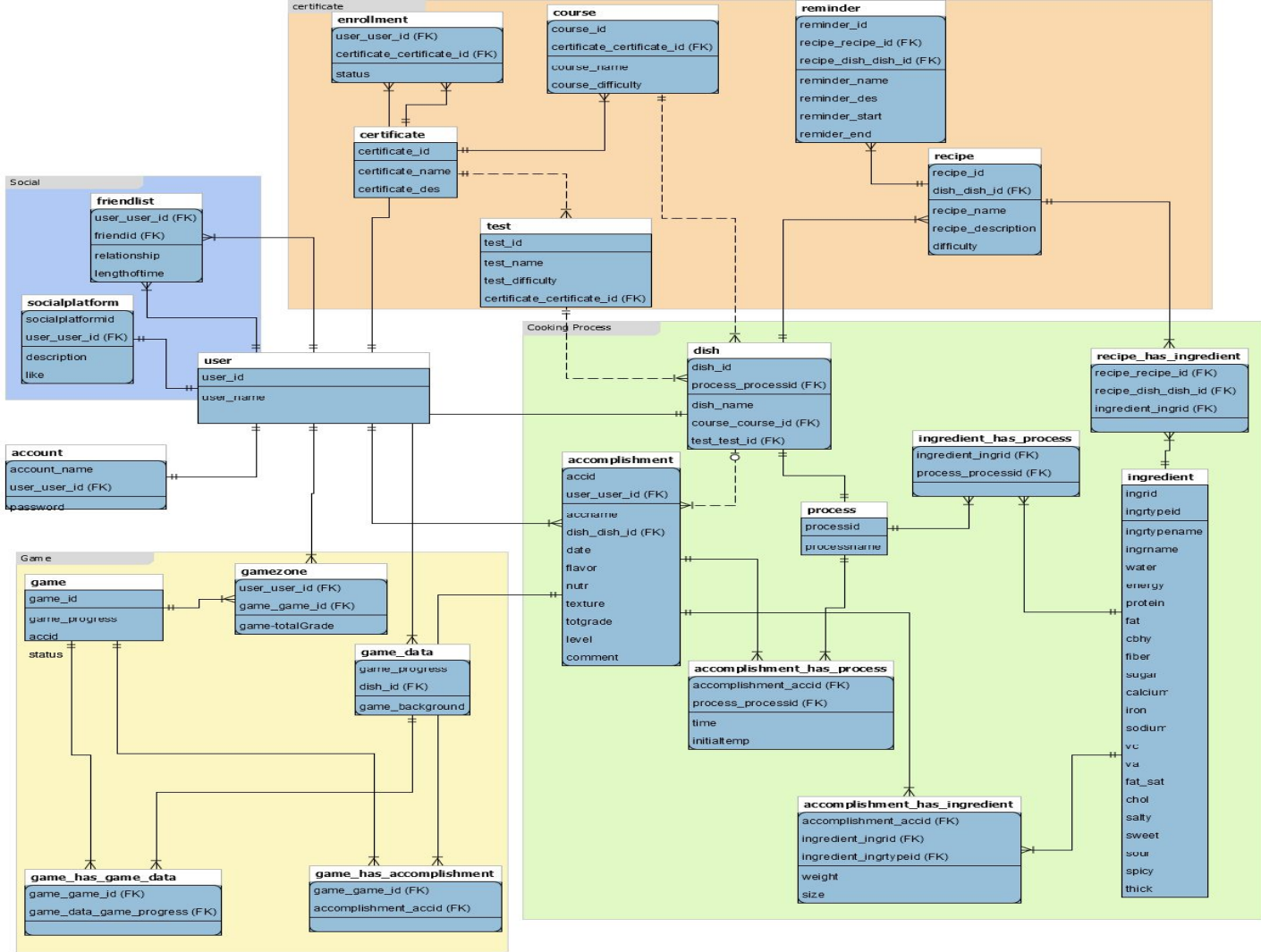
Objective

- Save material cost and avoid accidental injury
- help/train non-professional cooking amateur
- Providing professional certificate for job hunting
- Design a game mode for spare time entertainment
- Give cook lovers a platform to get new friends



Sequential Diagram





User

Overview

VRKitchen

Team Zero

Professor: Dr. Chaiyaporn Mutsalklisana

HOME

Certification

Game

MyZone

Accomplishment

CONTACT

For those who love cook..

One can not think well, love well ,
sleep well, if one has not dined well
-Virginia Woolf

Part of the secret of success in life is to eat
what you like and let the food fight it out
inside
-Mark Twain



How it works

VRKitchen

Team Zero

Professor: Dr. Chaiyaporn Mutsalklisana

HOME

Certification

Game

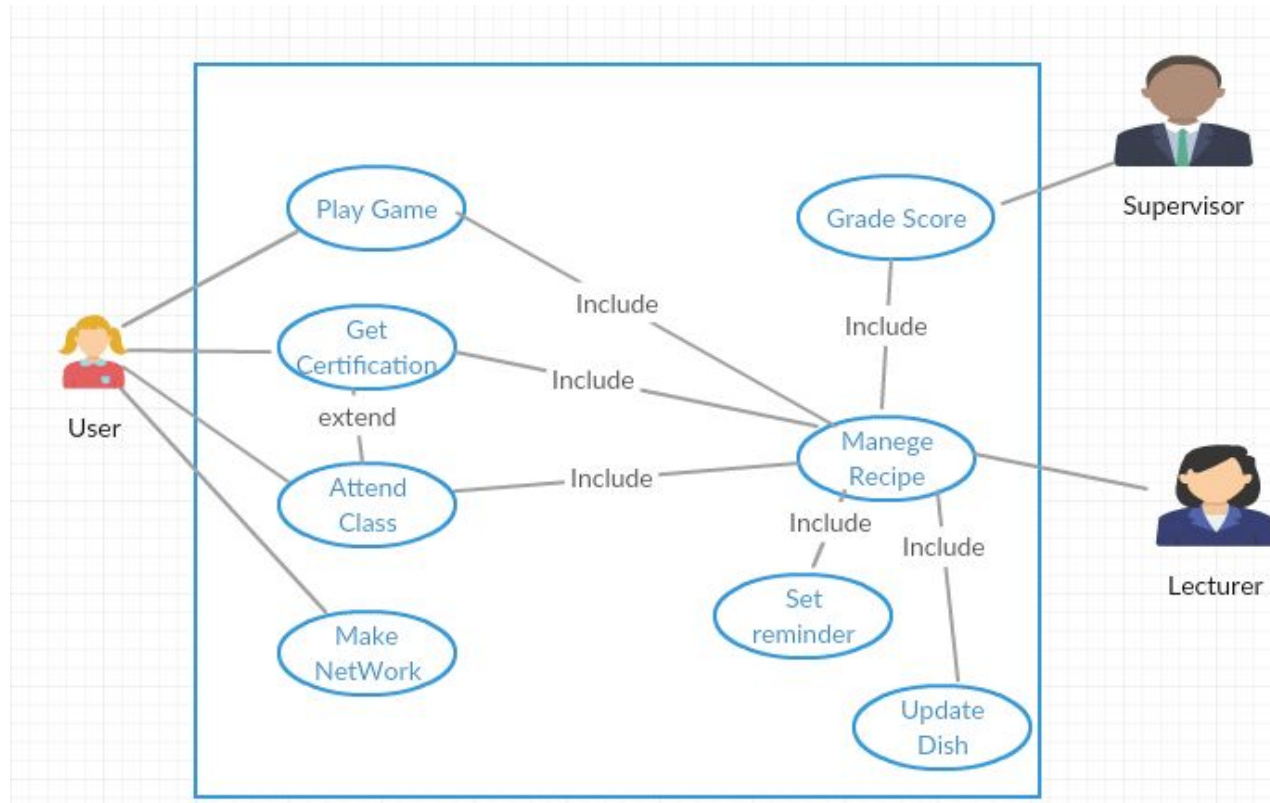
MyZone

Accomplishment

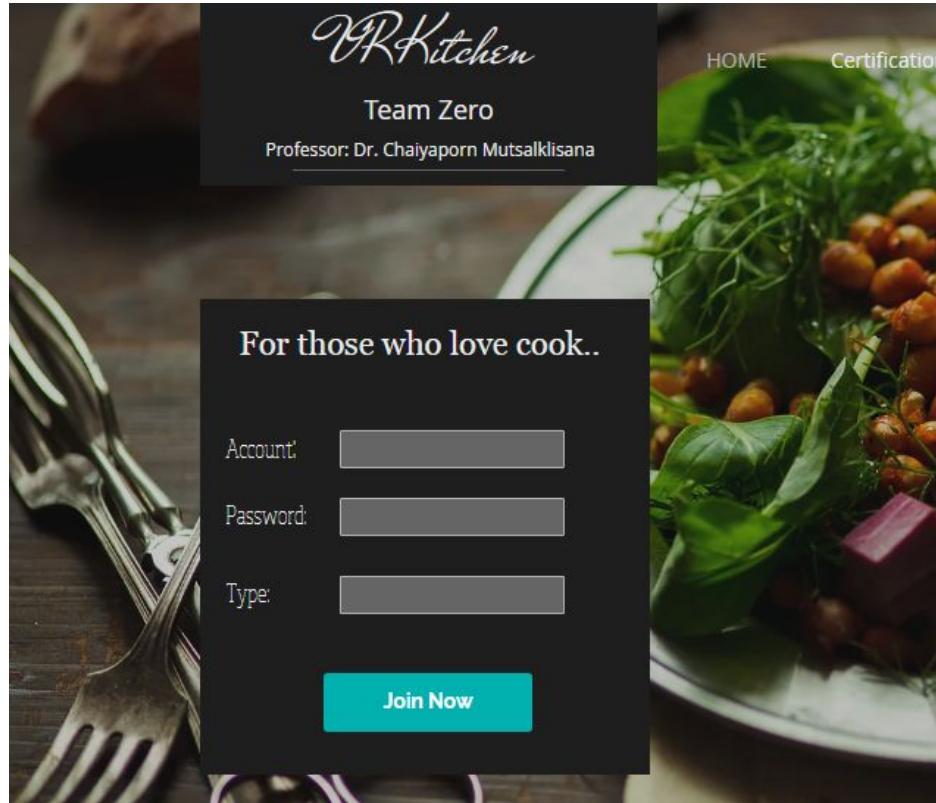
Social

Button	Functions	Related Tables
Home	Log in/Sign up,User profile	Account,User..
Certification	Learn and Test	Course,Recipe,Dish,Process.
Game	Have fun with cook	Gamedata,Dish,Process..
Myzone	See what you have done	Gamezone/Enrollment,..
Accomplishment	Store the grade for you	Accomplishment,Test,Dish...
Social	Connect with others	Friend-List,Social platform

Use Case



Account-Type



The image shows a website for 'VR Kitchen'. The header features the logo 'VR Kitchen' in a cursive font, with navigation links 'HOME' and 'Certification'. Below the logo, it says 'Team Zero' and 'Professor: Dr. Chaiyaporn Mutsalkisana'. The main content area has a dark background with the text 'For those who love cook..' and three input fields labeled 'Account:', 'Password:', and 'Type:'. A teal 'Join Now' button is at the bottom. The background of the website is a collage of food images, including a salad and a fork.

VR Kitchen

HOME Certification

Team Zero

Professor: Dr. Chaiyaporn Mutsalkisana

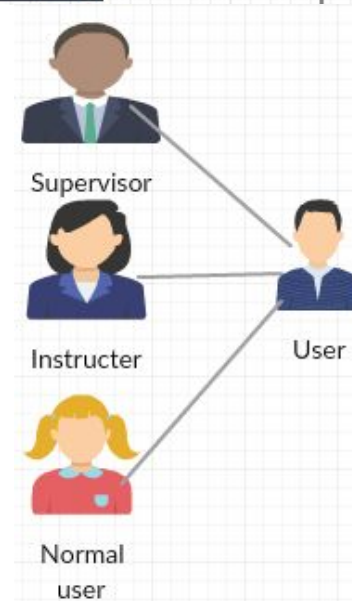
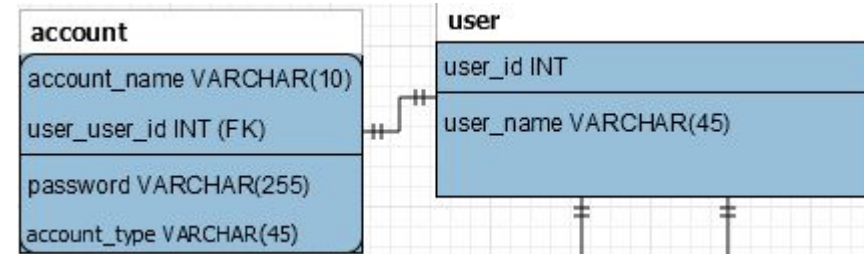
For those who love cook..

Account:

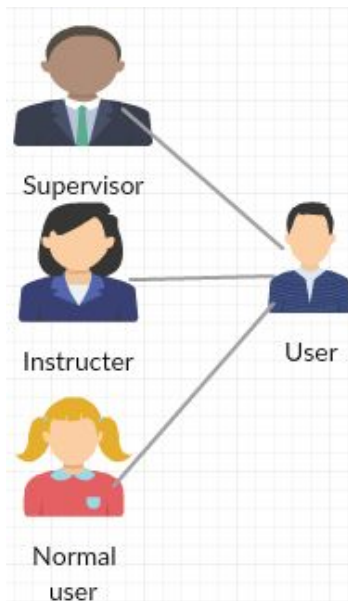
Password:

Type:

Join Now



Privilege (Instructor)



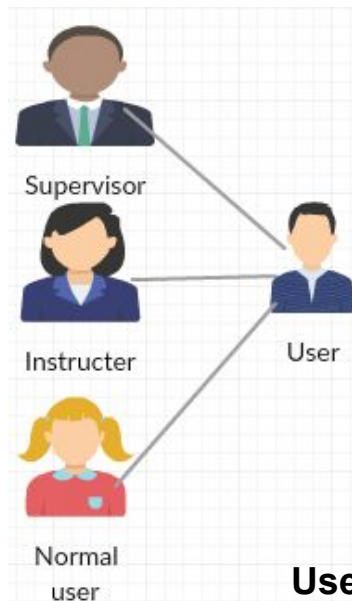
```
#I'm mad since they never paid my lecture salary!  
DROP SCHEMA IF EXISTS `mydb` ;
```

Error Code: 1044. Access denied for user 'InstructorTY'@'localhost' to database 'mydb'

The duty of **Instructors** is supporting class and manage the dish, recipe and suggestions(reminder).

```
#Create a Instructor that is in charge of the dish,reminder,recipe  
drop user 'InstructorTY'@'localhost';  
Create User 'InstructorTY'@'localhost'identified By'Teaching';  
Grant Select,insert,update,delete on `mydb`.recipe to 'InstructorTY'@'localhost';  
  
Grant Select,insert,update,delete on `mydb`.reminder to 'InstructorTY'@'localhost';  
FLUSH PRIVILEGES;  
Grant Select,insert,update,delete on `mydb`.dish to 'InstructorTY'@'localhost';  
FLUSH PRIVILEGES;  
show grants for 'InstructorTY'@'localhost';
```

Privilege (User)



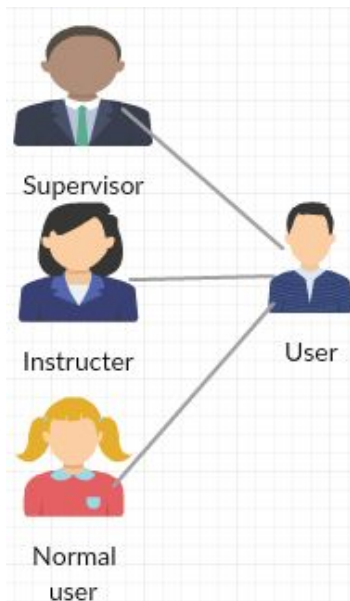
```
#Create a Student and let him have the right to choose game,course and dish and view his or his
#friends' information in vrkitchen
Drop User 'StudentJM'@'localhost';
Create User 'StudentJM'@'localhost'identified By'JMLearning';
Grant update on `mydb`.account to 'StudentJM'@'%';
Grant Select,insert,update,delete on `mydb`.user to 'StudentJM'@'localhost';
Grant Select,insert,delete on `mydb`.friendlist to 'StudentJM'@'localhost';

Grant select(course_id, course_name, course_difficulty) on `mydb`.course to 'StudentJM'@'localhost';
Grant select(certificate_id, certificate_name) on `mydb`.certificate to 'StudentJM'@'localhost';
Grant select(game_id) on `mydb`.game to 'StudentJM'@'localhost';
Grant Select on `mydb`.accomplishment to 'StudentJM'@'localhost';
Grant Select on `mydb`.enrollment to 'StudentJM'@'localhost';
Grant Select on `mydb`.gamezone to 'StudentJM'@'localhost';
show grants for 'StudentJM'@'localhost';
```

User is allowed to change their personal information and view other table.

Grants for StudentJM@localhost
GRANT USAGE ON *.* TO 'StudentJM'@'localhost'
GRANT SELECT (certificate_name, certificate_id...
GRANT SELECT ON `mydb`.`accomplishment` ...
GRANT SELECT, INSERT, UPDATE, DELETE ON ...
GRANT SELECT, INSERT, DELETE ON `mydb`.`...
GRANT SELECT ON `mydb`.`gamezone` TO 'St...
GRANT SELECT (course_difficulty, course_name...
GRANT SELECT (game_id) ON `mydb`.`game` ...
GRANT SELECT ON `mydb`.`enrollment` TO 'St...

Privilege (Supervisor)



Supervisor has rights to do whatever he like...

```
#Create a Supervisor and let him have the right to all table in vrkitchen
• select Host,User from mysql.user;
• Drop User 'SupervisorHHQ'@'localhost';
• Create User 'SupervisorHHQ'@'localhost' identified By 'hqhandsome';
• grant all on `mydb`. * to 'SupervisorHHQ'@'localhost';
• grant create,show view on `mydb` to 'SupervisorHHQ'@'localhost';
• show grants for 'SupervisorHHQ'@'localhost';
```

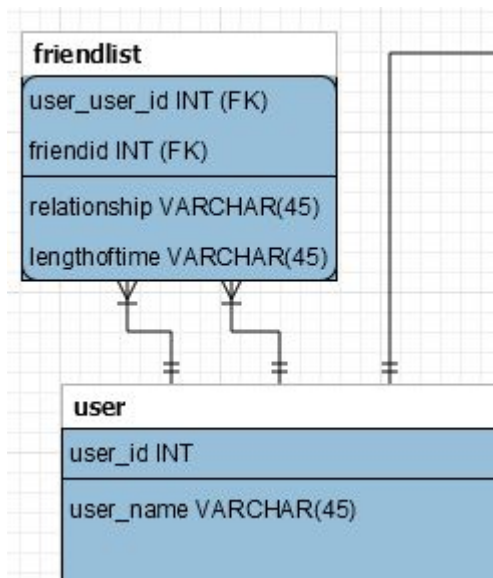
Grants for SupervisorHHQ@localhost

```
GRANT USAGE ON *.* TO 'SupervisorHHQ'@'localhost'
```

```
GRANT ALL PRIVILEGES ON `mydb`. * TO 'SupervisorHHQ'@'localhost'
```

```
GRANT CREATE, SHOW VIEW ON `mydb`. `mydb` TO 'SupervisorHHQ'@'localhost'
```

Make Friends



```
#find all friends for Haoqi
DROP PROCEDURE IF EXISTS showFriend;
DELIMITER //
CREATE PROCEDURE showFriend(
IN input varchar(45))
BEGIN
select user_name from user
where user_id=all(select friendid
from friendlist
where user_id=
(select user_id from user where user_name=input));
END//
DELIMITER ;
CALL showProduct('Haoqi');
```



Make Friends

	user_name
▶	Jiaming
	Yile
	Tianyu
	Luoxiao

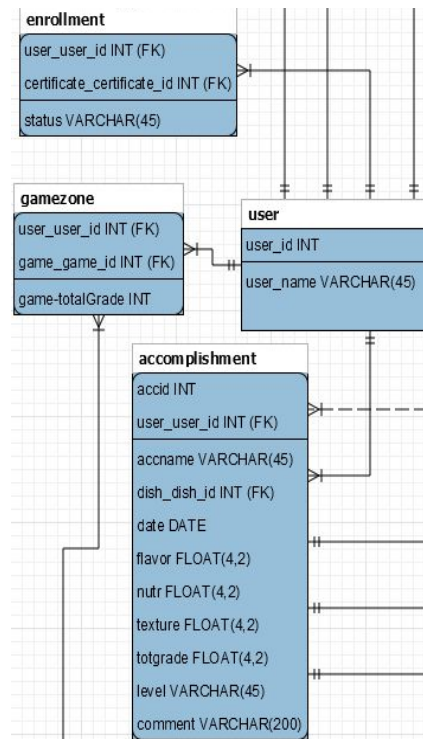
Personal Zone



Show More

```
#User's accomplishment
DROP PROCEDURE IF EXISTS showProduct;
DELIMITER //
CREATE PROCEDURE showProduct(
IN input varchar(45))
BEGIN
SELECT user_name,dish_name
FROM user u
inner join
accomplishment a on u.user_id=a.user_user_id
left JOIN
dish d on a.dish_dish_id=d.dish_id
WHERE user_name=input;
END//
DELIMITER ;
CALL showProduct('Haoqi');
```

user_name	dish_name
Haoqi	kung pao chicken
Haoqi	NULL
Haoqi	NULL



Certificate

What do you want to learn?



```
SELECT  
  certificate_name, certificate_des  
FROM  
  certificate;
```

certificate_name	certificate_des
Chinese food Lv1	beginner of Chinese food
Chinese food Lv2	general of Chinese food
Chinese food Lv3	Master of Chinese food
French meal Lv1	beginner of French meal
French meal Lv2	general of French meal
French meal Lv3	Master of French meal
Thai food Lv1	beginner of Thai food
Thai food Lv2	general of Thai food
Thai food Lv3	Master of Thai food

Certifications

- Executive Chef (aka Group Ch)
- Head Chef (aka Executive Chef, Chef de Cuisine) -
- Sous Chef (aka Second Chef) -
- Chef de Partie (aka Station Chef, Line Chef, Line Cook) -
- Commis Chef -
- Kitchen Porter (aka Kitchen Assistant or Kitchenhand) -
- Dishwasher (aka Escuelerie)

Executive Chef

Required Course

ID:6200

Dish Design and Management

ID:5100

Object-Orientated Cook

ID: 7390

Fancy Chinese Cook

ID:6000

Coop-Learning and Chef Ethic

Enrollment of certificate

```
SELECT
  user_name, status, certificate_name
FROM
  enrollment
  INNER JOIN
  user ON user.user_id = enrollment.user_user_id
  INNER JOIN
  certificate ON enrollment.certificate_certificate_id = certificate.certificate_id
ORDER BY user_name;
```

user_name	status	certificate_name
Haoqi	pass	Chinese I
Haoqi	studying	Chinese II
Jiaming	studying	Chinese I
Luoxiao	pass	Chinese III
Tianyu	pass	Chinese I
Yile	studying	Chinese III
Yile	pass	Chinese I

```
SELECT
  user_name, COUNT(certificate_name) numbers
FROM
  enrollment
  INNER JOIN
  user ON user.user_id = enrollment.user_user_id
  INNER JOIN
  certificate ON enrollment.certificate_certificate_id = certificate.certificate_id
GROUP BY user_name;
```

user_name	numbers
Haoqi	2
Jiaming	1
Luoxiao	1
Tianyu	1
Yile	2

How to find the course you like?

You like spicy? →

```
SELECT
    dish_name, course_name
FROM
    dish
    INNER JOIN
    course ON course.course_id = dish.course_course_id
WHERE
    dish_name LIKE '%spicy%';
```



dish_name	course_name
spicy beef	Chinese Lv2
spicy chicken	Chinese Lv2
sweet spicy beef	Chinese Lv2

What to do during the cooking process?

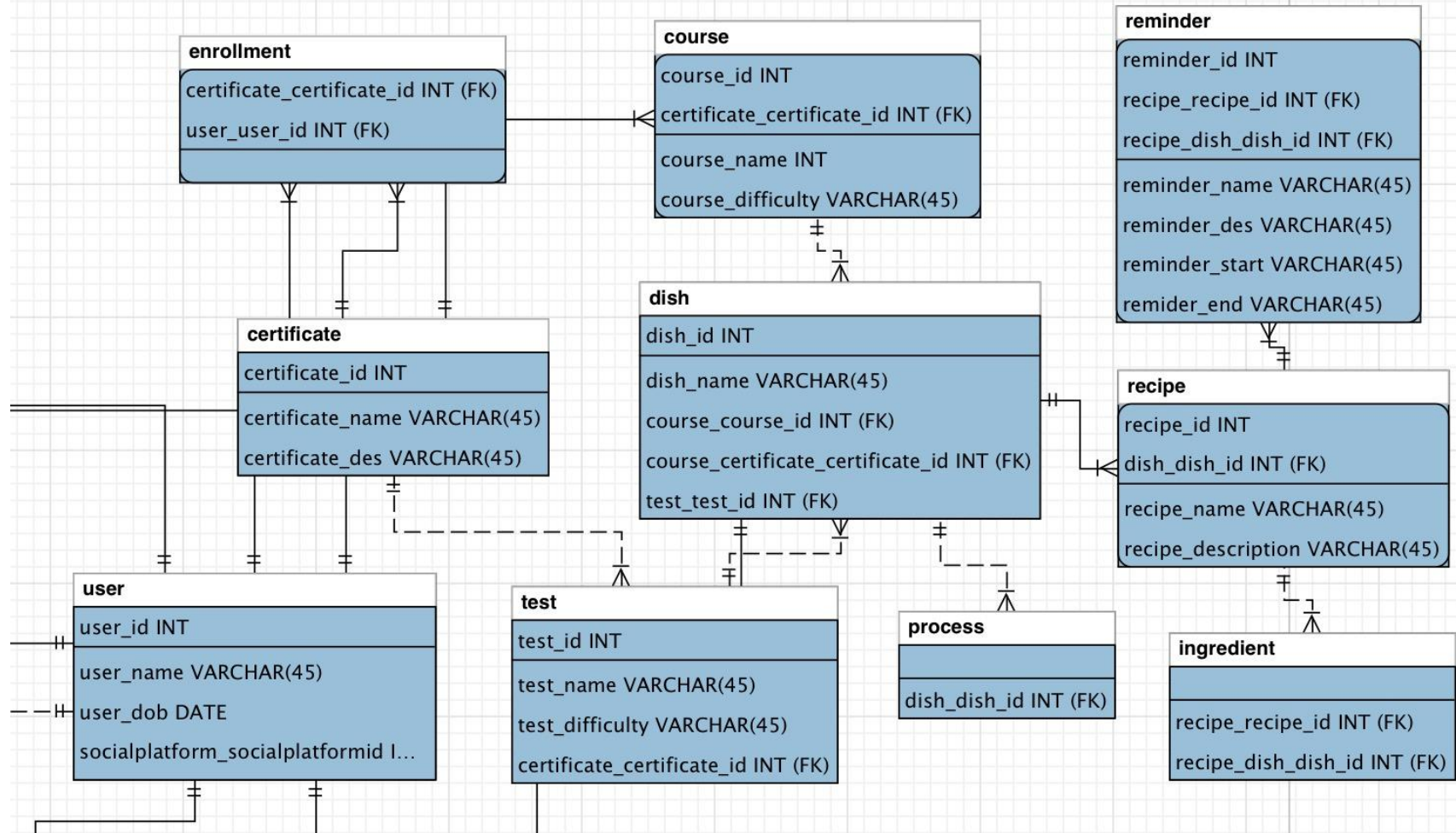


or

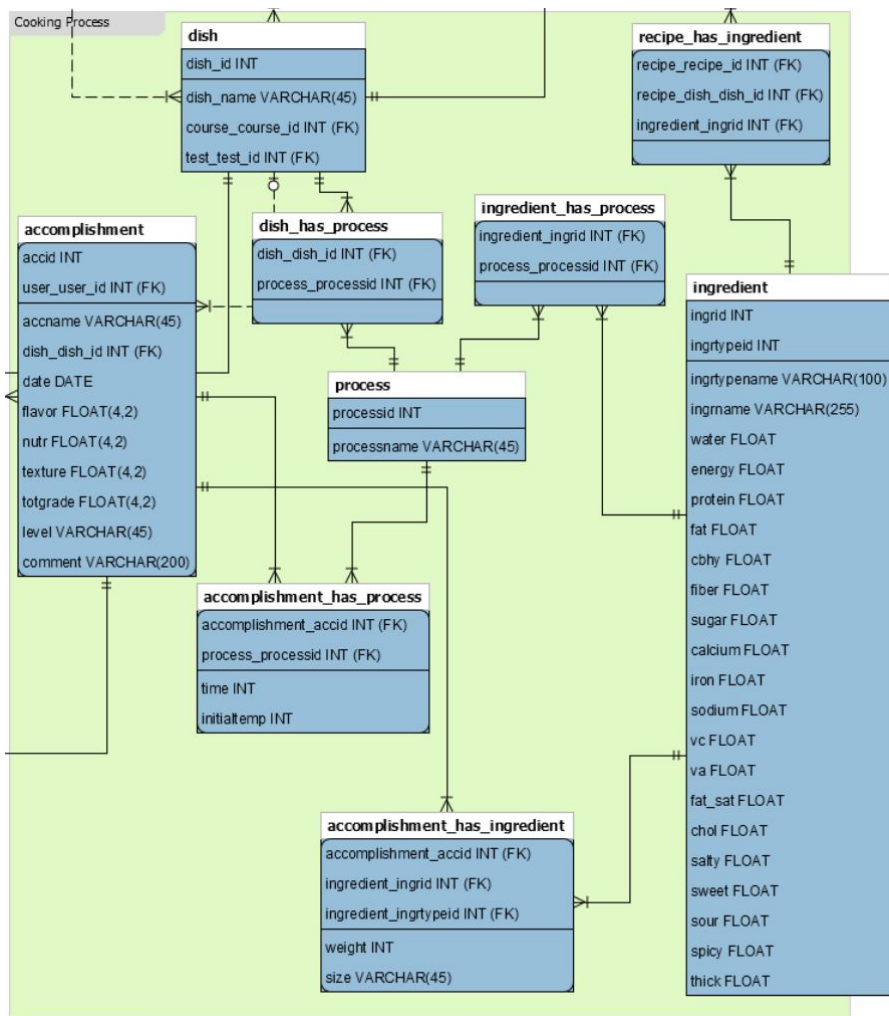



```
SELECT
    sequence, reminder_start, reminder_des
FROM
    reminder
    inner join recipe on recipe.recipe_id=reminder.recipe_recipe_id
    where recipe_name='kung pao'
ORDER BY sequence;
```

sequence	reminder_start	reminder_des
1	After oil is heated enough	It is time to put chichken into the pan
2	When the chicken is boiled	It is time to add soy
3	Before served	It is time to add salt!!



Cooking process



4 entities:

Ingredient

Accomplishment

Process

Dish

Relationship:

One ingredient can be a part of 1 to many accomplishments, one accomplishment consists 1 to many ingredients, that is M:N relationship.

One ingredient can be cooked by 1 to many cooking process, one cooking process can cook 1 to many ingredients.

One accomplishment can be cooked by one to many processes, one process can cook one to many accomplishments.

Dish can be made by 1 to many processes, one process can cook one to many dishes.

Functions

It can evaluate the flavor, nutrition and texture of your accomplishment respectively.

If it is too salty, or not salty at all?

What is the intensity of sweetness?

Spicy? Sour? Oliy? I can give you the answer.

```
SELECT
    SUM(salty * weight) / SUM(weight)
INTO accsalty FROM
    accomplishment_has_ingredient ahi
    INNER JOIN
    ingredient i ON ahi.ingredient_ingrid = i.ingrid
WHERE
    accomplishment_accid = accomp_id
GROUP BY accomplishment_accid;

SELECT
    SUM(sweet * weight) / SUM(weight)
INTO accsweet FROM
    accomplishment_has_ingredient ahi
    INNER JOIN
    ingredient i ON ahi.ingredient_ingrid = i.ingrid
WHERE
    accomplishment_accid = accomp_id
GROUP BY accomplishment_accid;
```

```
if (accsalty>=0 AND accsalty<= 100) then
    set salty_score = 0; set saltycom='no salt,';
elseif (accsalty>100 AND accsalty<=300) then
    set salty_score =0.05*accsalty-5; set saltycom='not enough salt,';
elseif (accsalty>300 AND accsalty<=700) then
    set salty_score=10; set saltycom='perfectly salty!';
elseif (accsalty>700 AND accsalty<=1000) then
    set salty_score=(-1/30)*(accsalty-1000); set saltycom='a little oversalty,';
else
    set salty_score=0; set saltycom='toooooooo salty!';
end if;
```

@grade	@level	@comment
3.833852767944336	D	toooooooo salty! perfectlv sweet! slightlv sour. slightlv spicv. freshness.

Functions

Nutrition evaluation:

Protein, fat, vitamin A, vitamin C, carbohydrate,

Sugar, calcium, iron, sodium, cholesterol.

Did you cook a healthy dish just now?

```
SELECT
    SUM(weight * Fat) / SUM(weight)
INTO accfat FROM
    accomplishment_has_ingredient ahi
    INNER JOIN
    ingredient i ON ahi.ingredient_ingrid = i.ingrid
WHERE
    accomplishment_accid = accomp_id
GROUP BY accomplishment_accid;

SELECT
    SUM(weight * fat_sat) / SUM(weight)
INTO accsat_fat FROM
    accomplishment_has_ingredient ahi
    INNER JOIN
    ingredient i ON ahi.ingredient_ingrid = i.ingrid
WHERE
    accomplishment_accid = accomp_id
GROUP BY accomplishment_accid;
```

```
set nutrgrade=5.710-0.0538*accfat-0.423*accsat_fat-0.00398*accchole-0.00254*accsodium
-0.0300*acccarby+0.561*accfiber-0.0245*accsugar+0.123*accprotein+0.00562*accvma
+0.0137*accvmc+0.0685*accal-0.0186*acciron;
```

```
if (nutrgrade>=0 AND nutrgrade<=2) then
    set nutrlevel='E';set nutrcomment='unhealthy.';
elseif (nutrgrade>2 AND nutrgrade<=4) then
    set nutrlevel='D';set nutrcomment='not very healthy.';
elseif (nutrgrade>4 AND nutrgrade<=6) then
    set nutrlevel='C'; set nutrcomment='fairly healthy.';
elseif (nutrgrade>6 AND nutrgrade<=8) then
    set nutrlevel='B';set nutrcomment='healthy.';
else
    set nutrlevel='A';set nutrcomment='very healthy!';
END if;
```

Functions

Last but not least, an important thing is:

Did the ingredient well cooked just now?

Texture score can give you the answer.

Levels are from totally raw to carbon.

Factors: cooking method, temperature, size, ingredient type, and cooking time.

```
SELECT
  AVG(CASE processname
    WHEN 'boil' THEN 1.5
    WHEN 'steam' THEN 1
    WHEN 'bake' THEN 2
    WHEN 'fry' THEN 3
    WHEN 'grill' THEN 3
    ELSE 0
  END)
INTO p FROM
  accomplishment a
  INNER JOIN
  accomplishment_has_process ahp ON a.accid = ahp.accomplishment_accid
  INNER JOIN
  process p ON ahp.process_processid = p.processid
WHERE
  a.accid = accomp_id
GROUP BY accid;

SET iniscore=(initemp/100)*p*t*s*0.3*acctime;

IF
  iniscore>=0 AND iniscore<=10 THEN
  SET texgrade=0; SET texcomment='raw';
ELSEIF iniscore>10 AND iniscore<=25 THEN
  SET texgrade=(8/15)*(iniscore-10); SET texcomment='not rare but undercooked';
ELSEIF iniscore>25 AND iniscore<=30 THEN
  SET texgrade=(2/5)*(iniscore-5); SET texcomment='wellcooked!';
ELSEIF iniscore>30 AND iniscore<=35 THEN
  SET texgrade=(-2/5)*iniscore+22; SET texcomment='Slightly overcooked';
ELSEIF iniscore>35 AND iniscore<50 THEN
  SET texgrade=(-8/15)*iniscore+(80/3); SET texcomment='charcoal';
ELSE
  SET texgrade=0; SET texcomment='Please practice more!';
END IF;
```

Functions

Three evaluation standard: Flavor, nutrition and texture. 10 points are the full points.

50% flavor, 35% texture and 15% nutrition.

0-2 E level: Please practice more!

2-4 D level: Not very good...

4-6 C level: fairly good.

6-8 B level: Pretty good!

8-10 A level: Excellent!

```
CALL gradeflavor(accompid,@flgrade,@flalevel,@flacomment);
CALL gradenutr(accompid,@nutrgrade,@nutrlevel,@nutrcomment);
CALL gradetexture(accompid,@texgrade,@texlevel,@texcomment);

SET grade= 0.5*@flgrade+0.15*@nutrgrade+0.35*@texgrade;

IF grade>=0 AND grade<=2 THEN
    SET toplevel='E'; SET ovacomment='Bad accomplishment.';
ELSEIF grade>2 AND grade<=4 THEN
    SET toplevel='D'; SET ovacomment='Not very good.';
ELSEIF grade>4 AND grade<=6 THEN
    SET toplevel='C'; SET ovacomment='fairly good.';
ELSEIF grade>6 AND grade<=8 THEN
    SET toplevel='B'; SET ovacomment='Pretty good.';
ELSE
    SET toplevel='A'; SET ovacomment='Excellent!';
END IF;

SET totcomment=concat(ovacomment,' ',@flacomment,' ',@nutrcomment,' ',@texcomment);
```

accid	user_user_id	accname	dish_dish_id	date	flavor	nutr	texture	totgrade	level	comment
21	1	ztssv	HULL	2017-12-02	3.83	6.33	7.63	5.54	C	fairly good. tooooooo salty! perfectly sweet! slightly sour, slightly spicy, freshness, healthy, not rare but undercooked

The flow of cooking

- Add accomplishment into system, including the cooking method, the cooking time and initial temperature. A unique ID will be given.
- Add ingredients into your accomplishment. Please remember insert the weight and size of the ingredients.
- Calculation begins. Your flavor grade, nutrition grade and texture grade will be given.
- Finally, a total evaluation will be given including the final score, level and comment.
- Please practice more!

```
CALL addacc(1,'mydish','fry',2, 150, @id);

CALL addingr(21,'CHICKEN,BROILERS OR FRYERS,BACK,MEAT ONLY,RAW',200,'M');
CALL addingr(21,'SALT,TABLE',5,'S');
CALL addingr(21,'SAUCE,CHS,DRY,PDR',20,'M');
CALL addingr(21,'ORANGES,RAW,ALL COMM VAR',100,'S');
CALL addingr(21,'TOMATOES,RED,RIPE,RAW,YEAR RND AVERAGE',50,'S');
CALL addingr(21,'GRAVY,BROWN INST,DRY',50,'S');
CALL addingr(21,'LIME JUICE,RAW',50,'S');
CALL addingr(21,'MELONS,CASABA,RAWE',50,'S');

CALL gradeflavor(11,@grade,@level,@comment);
SELECT @grade, @level, @comment;

CALL gradenutr(3,@grade,@level,@comment);
SELECT @grade, @level, @comment;
SELECT * FROM accomplishment;

CALL gradetexture(6,@score,@level,@comment);
SELECT * FROM accomplishment;

CALL totgrade(22);
```

Views

Establish a view for all accomplishments that have been finished.

Including name, date, all scores, comments and level for the accomplishments.

Select any user that you want to check their accomplishments.

```
CREATE VIEW accinfo AS
SELECT
    accid,user_id,accname,date,flavor,nutr,texture,
    level,comment,ingrname,ingrtyname,weight,size,
    processname,time,initialtemp
FROM user u
    INNER JOIN
    accomplishment a ON u.user_id = a.user_user_id
    INNER JOIN
    accomplishment_has_process ahp ON a.accid = ahp.accomplishment_accid
    INNER JOIN
    process p ON ahp.process_processid = p.processid
    INNER JOIN
    accomplishment_has_ingredient ahi ON a.accid = ahi.accomplishment_accid
    INNER JOIN
    ingredient i ON i.ingrid = ahi.ingredient_ingrid
ORDER BY accid;
```

accid	user	accname	date	flavor	nutr	texture	level	comment	ingrname	ingrtyname	weight	size	processname	time	initialtemp
1	1	oame1	2016-01-01	7.70	5.80	4.27	D	Prettv oood. not enought salt. perfectiv s...	LINGCOD.RAW	seafood	100	S	boil	5	100
1	1	oame1	2016-01-01	7.70	5.80	4.27	D	Prettv oood. not enought salt. perfectiv s...	BREADFRUIT SEEDS.RAW	nut	50	S	boil	5	100
1	1	oame1	2016-01-01	7.70	5.80	4.27	D	Prettv oood. not enought salt. perfectiv s...	LETTUCE.BUTTERHEAD ...	vegetable	100	M	boil	5	100
1	1	oame1	2016-01-01	7.70	5.80	4.27	D	Prettv oood. not enought salt. perfectiv s...	APPLES.RAW.WO/SKN....	fruit	200	S	boil	5	100
1	1	oame1	2016-01-01	7.70	5.80	4.27	D	Prettv oood. not enought salt. perfectiv s...	SALT.TABLE	Spice	3	S	boil	5	100
1	1	oame1	2016-01-01	7.70	5.80	4.27	D	Prettv oood. not enought salt. perfectiv s...	LAMB.VAR MEATS&BY-P...	lamb	120	S	boil	5	100
2	3	oame2	2017-12-01	2.45	5.50	0.00	D	Not verv oood. no salt. slightlv oversweet....	CEREALS RTE.OUAKER....	mainfood	200	M	frv	10	150
2	3	oame2	2017-12-01	2.45	5.50	0.00	D	Not verv oood. no salt. slightlv oversweet....	SAUCE.CHILI.PEPPERS....	sauce	20	S	frv	10	150
2	3	oame2	2017-12-01	2.45	5.50	0.00	D	Not verv oood. no salt. slightlv oversweet....	SALAD DRSNG.1000 ISL...	oil	10	S	frv	10	150
2	3	oame2	2017-12-01	2.45	5.50	0.00	D	Not verv oood. no salt. slightlv oversweet....	EGG.WHOLE.RAW.FRO...	Milk egg	100	L	frv	10	150
3	2	mvcook3	2016-01-02	7.97	7.47	8.94	A	Excellent! not enought salt. perfectiv swee...	SALT.TABLE	Spice	2	S	bake	8	170
3	2	mvcook3	2016-01-02	7.97	7.47	8.94	A	Excellent! not enought salt. perfectiv swee...	MONKFISH.RAW	seafood	100	L	bake	8	170

Triggers

For documenting the history of accomplishment inserting and updating, two triggers are designed.

After an unique accomplishment ID is established, trigger will add the documentation that an accomplishment has been created into log.

When scores and comments are added, the trigger will add the documentation that the accomplishment has been finished into log.

```
CREATE TRIGGER `mydb`.`accomplishment_AFTER_INSERT`  
AFTER INSERT ON `accomplishment`  
FOR EACH ROW  
BEGIN  
    INSERT INTO acclog  
        SET action = 'insert',  
            accid = new.accid,  
            accname = new.accname,  
            changedate = NOW();  
END  
  
CREATE TRIGGER `mydb`.`accomplishment_AFTER_UPDATE`  
AFTER UPDATE ON `accomplishment`  
FOR EACH ROW  
BEGIN  
    INSERT INTO acclog  
        SET action = 'update',  
            accid = OLD.accid,  
            accname = OLD.accname,  
            totgrade=NEW.totgrade,  
            level=NEW.level,  
            changedate = NOW();  
END
```

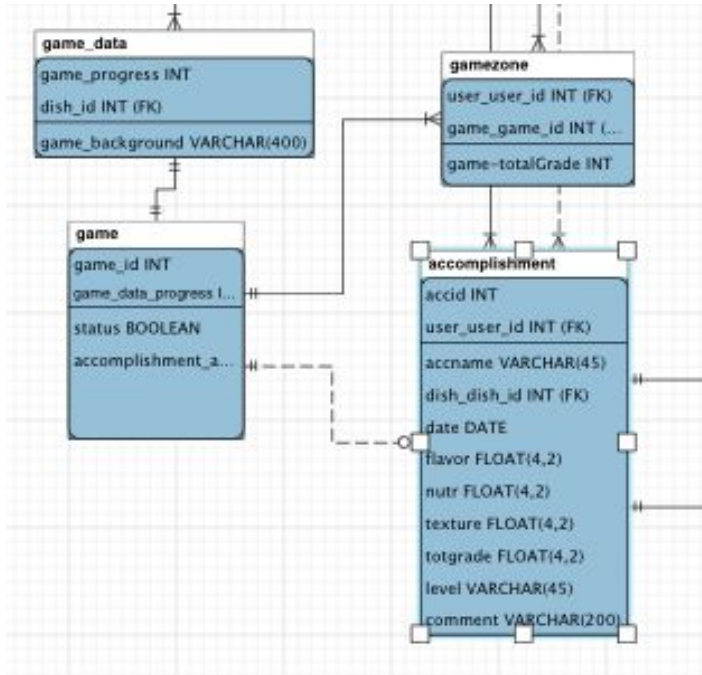
Game Zone

3 entities:

gamezone

Game Progress

Game_data



Relationship:

One gamezone can contains all the game file of a user and a vip user can have multiple game file(game)

A game(files) holds the progress of each user and each progress has a accomplishment and a background

Functions

We need to find out the game file that link to a certain user account

In the example user 1 is a vip so he can have two game account

```
197
198
199 • DROP PROCEDURE IF EXISTS findfile;
200 DELIMITER //
201 • CREATE PROCEDURE findfile(
202   IN userid INT
203 )
204   BEGIN
205     SELECT
206       game_game_id
207     FROM
208       gamezone
209     WHERE
210       gamezone.user_user_id=userid;
211   END //
212 DELIMITER ;
213
214
215 • call findfile(1);
216
217
218
219
220
221
222
```

100% 19:215

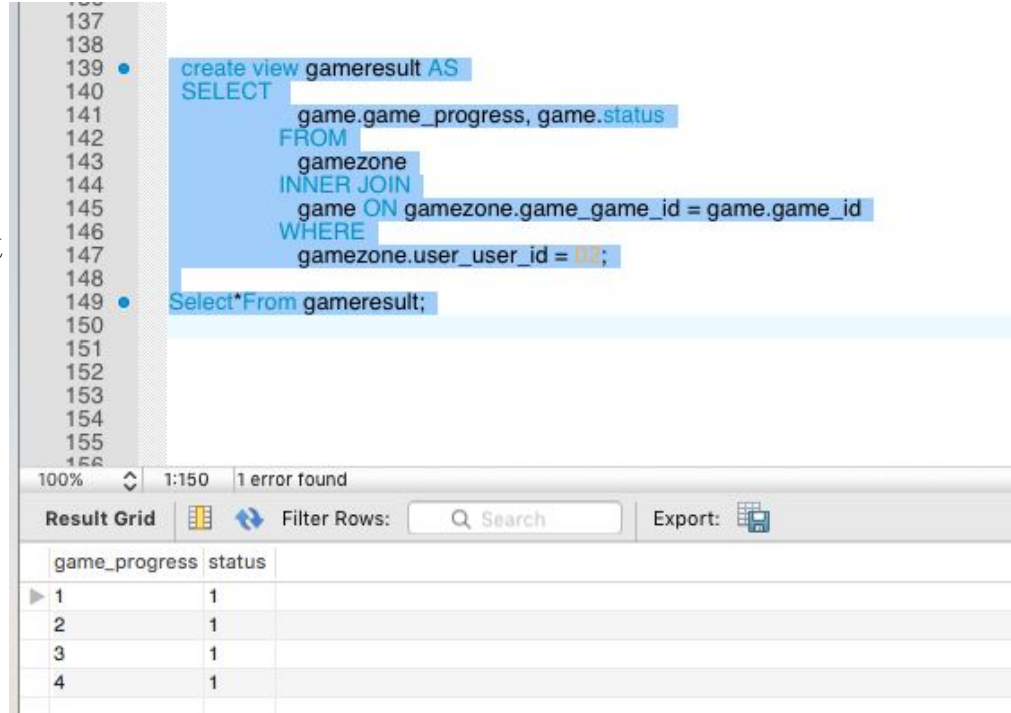
Result Grid Filter Rows: Search Export:

game_game_id
1
2

Functions

A user should be able to view all the status of his game.

The status is actually a boolean and 1 represent the user pass it.



```
137
138
139 • create view gameresult AS
140   SELECT
141     game.game_progress, game.status
142   FROM
143     gamezone
144   INNER JOIN
145     game ON gamezone.game_game_id = game.game_id
146   WHERE
147     gamezone.user_user_id = 102;
148
149 • Select*From gameresult;
150
151
152
153
154
155
156
```

100% 1:150 1 error found

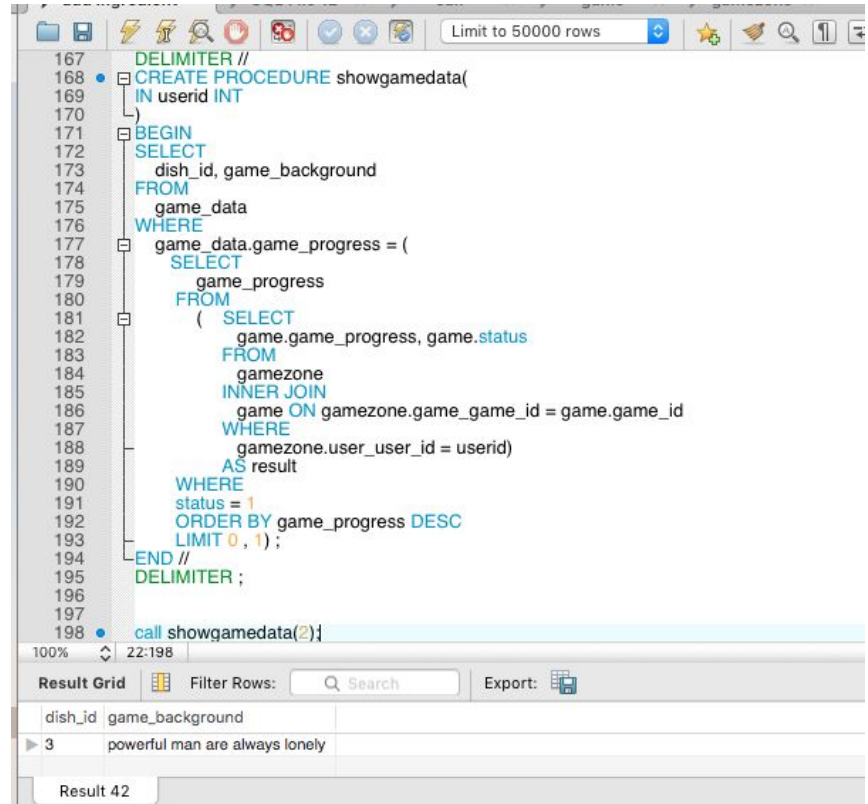
Result Grid Filter Rows: Search Export:

	game_progress	status
▶ 1		1
2		1
3		1
4		1

Functions

If a user choose a file, we need to know find out his progress then we need to find out which dish is link to that progress and find out which dish and background is link to it.

This user is a normal user, so he only have one game account.



```
167 DELIMITER //
168 CREATE PROCEDURE showgamedata(
169     IN userid INT
170 )
171 BEGIN
172     SELECT
173         dish_id, game_background
174     FROM
175         game_data
176     WHERE
177         game_data.game_progress = (
178             SELECT
179                 game_progress
180             FROM
181                 ( SELECT
182                     game.game_progress, game.status
183                 FROM
184                     gamezone
185                 INNER JOIN
186                     game ON gamezone.game_game_id = game.game_id
187                 WHERE
188                     gamezone.user_user_id = userid)
189                 AS result
190             WHERE
191                 status = 1
192             ORDER BY game_progress DESC
193             LIMIT 0, 1);
194     END //
195 DELIMITER ;
196
197
198 call showgamedata(2);
```

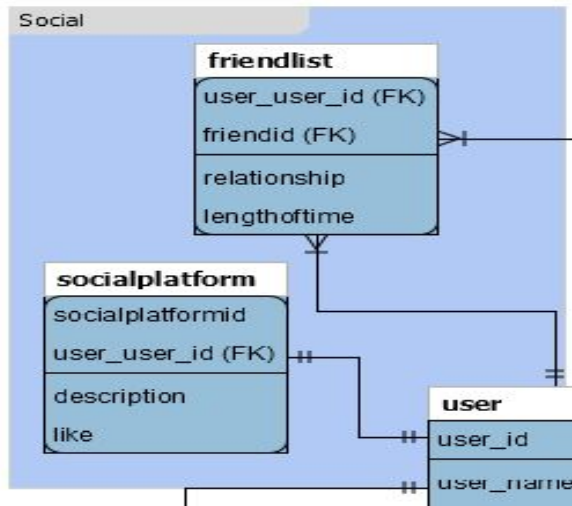
100% 22:198

Result Grid Filter Rows: Search Export:

dish_id	game_background
3	powerful man are always lonely

Result 42

Social Networking



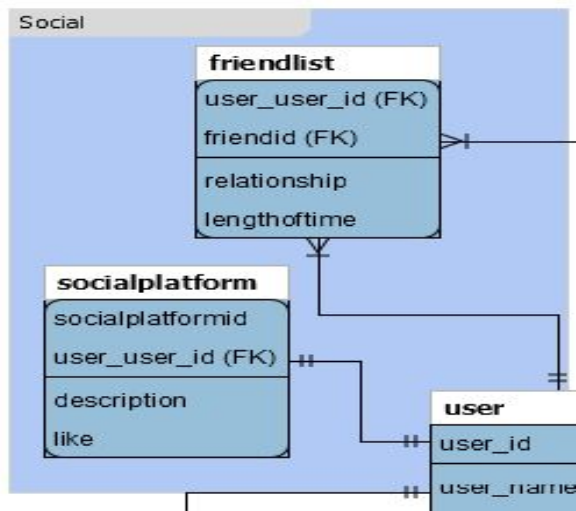
Search for User by name or id

```
# search for user by id
SELECT
    *
FROM
    user
WHERE
    user_id=3;
```

	user_id	user_name
▶	3	Yile

```
# search for user by name
SELECT
    *
FROM
    user
WHERE
    user_name LIKE '%ki%';
```

	user_id	user_name
▶	13	kiki
	14	kikiko
	15	kiku



View popular User

```

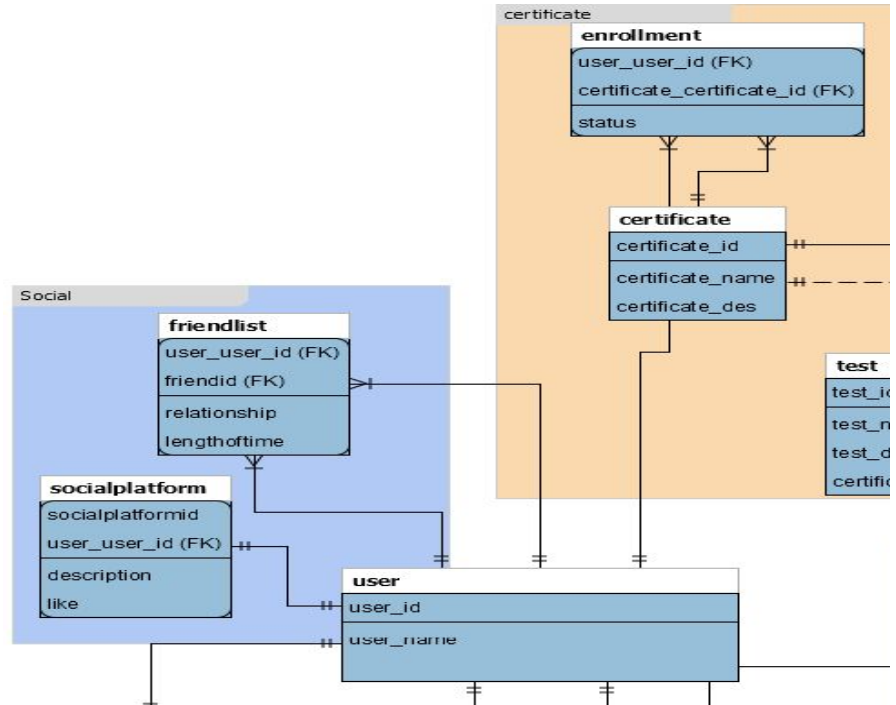
SELECT
    user.user_id,
    user.user_name,
    socialplatform.description,
    socialplatform.like
FROM
    socialplatform
    INNER JOIN
    user ON user.user_id = socialplatform.user_user_id
WHERE
    socialplatform.like > 1000
ORDER BY socialplatform.like DESC;
  
```

	user_id	user_name	description	like
▶	12	Tim	popular star	10002
	1	Haoqi	cute	10000
	19	shuichi	233	7777
	2	Jiamina	hahaha	2333
	3	Yile	best person in the world	1231
	7	student2	I am the king of the world	1201

View user's certificate

certificate_name	status
Chinese I	pass

```
1 # view user's certificated passed
2 • SELECT
3     certificate_name, enrollment.status
4 FROM
5     enrollment
6     INNER JOIN
7     user ON user.user_id = enrollment.user_user_id
8     INNER JOIN
9     certificate ON certificate.certificate_id = enrollment.certificate_certificate_id
10 WHERE
11     enrollment.status = 'pass'
12     AND user.user_id = 3;
```



Reference

Front-end design part refers from wix.com.

Ingredients nutrition refers from U.S. National Food Administration Data.

Martin J M, Beshears J, Milkman K L, et al. Modeling expert opinions on food healthfulness: a nutrition metric[J]. Journal of the American Dietetic Association, 2009, 109(6): 1088-1091.

<https://www.ars.usda.gov/northeast-area/beltsville-md/beltsville-human-nutrition-research-center/nutrient-data-laboratory/docs/usda-national-nutrient-database-for-standard-reference/>