

İSTANBUL TEKNİK ÜNİVERSİTESİ Bilgisayar
ve Bilişim Fakültesi

BLG317E – DATABASE SYSTEMS 2019-2020 FALL EXTRA–1 TAKE-HOME EXAM

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1-)At the begin i removed tildas with bash.sh

```
#!/bin/bash
```

```
echo "remove tildas..."
```

```
perl -pi -e s,~, ,g text/*.txt
```

2)After that i insert all necessary database info into tables in database.py

3)Then defined necessary functions for foodgroups i used 'SELECT * FROM food_group' Sql statement.

- For food function ('SELECT * FROM food WHERE food_group_id=?',[group_id])sql statement to give link groups to foods

-For viewfoods function i used '''SELECT * FROM food JOIN food_group ON

food.food_group_id=food_group.id

JOIN weight ON food.id=weight.food_id

JOIN nutrition ON food.id=nutrition.food_id;''' sql statement

Food_group i joined food to get group_name in food page , weight and nutrition i had to join them to food as well to add details of weight and nutrition as in milestone 3

-For updatefoods i used UPDATE food SET

long_desc=?, short_desc=?, manufac_name=?, sci_name=?

WHERE id=?''',(form.long_desc.data,form.short_desc.data,

form.manufac.data,form.scien.data,food_id

first i make option to change attributes as above after that in

updatefoods.html page i Show all group names and when user click any of them to change food's group easily i used UPDATE food SET

food_group_id=? WHERE id=?''',(group_id,food_id))

sql statement for updating group number

4-)while I m doing all that i also creating html files as i need to complete milestones , for example for milestone 2 I Created viewfoods.html page for an existing food as food group, short and long descriptions, manufacturer and scientific name of the food as 5 row after that for milestone 3 i updated it with 28 row as needed

5-) here is some of screenshot of how my Project execute

Food Groups
Dairy and Egg Products
Spices and Herbs
Baby Foods
Fats and Oils
Poultry Products
Soups, Sauces, and Gravies
Sausages and Luncheon Meats
Breakfast Cereals
Fruits and Fruit Juices
Pork Products
Vegetables and Vegetable Products
Nut and Seed Products
Beef Products
Beverages
Finfish and Shellfish Products
Legumes and Legume Products
Lamb, Veal, and Game Products
Baked Products
Sweets
Cereal Grains and Pasta
Fast Foods
Meals, Entrees, and Side Dishes

This screenshot in the above is when i start Project i see food group page with all groups

Short Description	Update	Nitrogen	Protein	Fat	Calorine
BUTTER,WITH SALT	Update	6.38	4.27	8.79	3.87
BUTTER,WHIPPED,W/ SALT	Update	6.38			
BUTTER OIL,ANHYDROUS	Update	6.38	4.27	8.79	3.87
CHEESE,BLUE	Update	6.38	4.27	8.79	3.87
CHEESE,BRICK	Update	6.38	4.27	8.79	3.87
CHEESE,BRIE	Update	6.38	4.27	8.79	3.87
CHEESE,CAMEMBERT	Update	6.38	4.27	8.79	3.87
CHEESE,CARAWAY	Update	6.38	4.27	8.79	3.87
CHEESE,CHEDDAR	Update				
CHEESE,CHESHIRE	Update	6.38	4.27	8.79	3.87
CHEESE,COLBY	Update	6.38	4.27	8.79	3.87
CHEESE,COTTAGE,CRMD,LRG OR SML CURD	Update	6.38	4.27	8.79	3.87
CHEESE,COTTAGE,CRMD,W/FRUIT	Update	6.38	4.27	8.79	3.87
CHEESE,COTTAGE,NOFAT,UNCRMD,DRY,LRG OR SML CURD	Update	6.38	4.27	8.79	3.87
CHEESE,COTTAGE,LOWFAT,2% MILKFAT	Update				
CHEESE,COTTAGE,LOWFAT,1% MILKFAT	Update	6.38	4.27	8.79	3.87
CHEESE,CREAM	Update	6.38	4.27	8.79	3.87
CHEESE,EDAM	Update	6.38	4.27	8.79	3.87
CHEESE,FETA	Update	6.38	4.27	8.79	3.87
CHEESE,FONTINA	Update	6.38	4.27	8.79	3.87
CHEESE,GJETOST	Update	6.38	4.27	8.79	3.87
CHEESE,GOUDA	Update	6.38	4.27	8.79	3.87

When user click to an group name on above picture my food page is shown with short des, nitrogenprotein,fat,calorine as in milestone 1(COMPLETE MILESTONE 1 here)

Food group	Short descriptions	Long descriptions	Manufacturer	Scientific name	sequence_num	amount	description	gm_weight	num_data_pts	std_dev	nutrient_id	amount	num
Dairy and Egg Products	Butter, salted	BUTTER,WITH SALT			4	1.0	stick	113.0			851	0.315	3

When user click to any food link my viewfood page showed the details of food as needed in milestone 2

Short Description		Nitrogen	Protein	Fat	Calorine
CHICKEN,BROILER,ROTISSERIE,BBQ,BREAST MEAT ONLY	Update				
CHICKEN,BROILERS OR FRYERS,MEAT&SKN&GIBLETS&NECK,RAW	Update	6.25	4.27	9.02	3.87
CHICKEN,BROILER OR FRYER,MEAT&SKN&GIBLETS&NECK,FRIED,BATTER	Update	6.25	4.27	9.02	3.87
CHICKEN,BROILERS OR FRYERS,MEAT&SKN&GIBLETS&NECK,FRIED,FLR	Update	6.25	4.27	9.02	3.87
CHICKEN,BROILERS OR FRYERS,MEAT&SKN&GIBLETS&NECK,RSTD	Update	6.25	4.27	9.02	3.87
CHICKEN,BROILERS OR FRYERS,MEAT&SKN&GIBLETS&NECK,STWD	Update	6.25	4.27	9.02	3.87
CHICKEN,BROILERS OR FRYERS,MEAT & SKN,RAW	Update	6.25	4.27	9.02	3.87
CHICKEN,BROILERS OR FRYERS,MEAT&SKN,CKD,FRIED,BATTER	Update	6.25	4.27	9.02	3.87
CHICKEN,BROILERS OR FRYERS,MEAT&SKN,CKD,FRIED,FLR	Update	6.25	4.27	9.02	3.87
CHICKEN,BROILERS OR FRYERS,MEAT&SKN,CKD,RSTD	Update	6.25	4.27	9.02	3.87
CHICKEN,BROILERS OR FRYERS,MEAT&SKN,CKD,STWD	Update	6.25	4.27	9.02	3.87
CHICKEN,BROILERS OR FRYERS,MEAT ONLY,RAW	Update	6.25	4.27	9.02	3.87
CHICKEN,BROILERS OR FRYERS,MEAT ONLY,CKD,FRIED	Update	6.25	4.27	9.02	3.87
CHICKEN,BROILERS OR FRYERS,MEAT ONLY,RSTD	Update	6.25	4.27	9.02	3.87
CHICKEN,BROILERS OR FRYERS,MEAT ONLY,STWD	Update	6.25	4.27	9.02	3.87

For the update every food member has update option as a row and i will updated yellow background food as example

Long Description:

Short Description:

Manufacturer Name:

Scientific Name:

Food Groups
Dairy and Egg Products
Spices and Herbs
Baby Foods
Fats and Oils
Poultry Products
Soups, Sauces, and Gravies
Sausages and Luncheon Meats
Breakfast Cereals
Fruits and Fruit Juices
Pork Products
Vegetables and Vegetable Products
Nut and Seed Products
Beef Products
Beverages
Finfish and Shellfish Products
Legumes and Legume Products
Lamb, Veal, and Game Products

When user click update of that food it has option to change long,short desc, manufac_name , scientific name of food and also with clicking the link of any group he wants in the table will change its group number and so name

...

Food group	Short descriptions	Long descriptions	Manufacturer	Scientific name	sequence_num
Poultry Products	Chicken, broilers or fryers, meat and skin, cooked, fried, batter	CHICKEN,BROILERS OR FRYERS,MEAT&SKN,CKD,FRIED,BATTER			3

This were the food information before update

Food group	Short descriptions	Long descriptions	Manufacturer	Scientific name	sequence_num	amount	description	gm_weight	num_data_pts	std_dev	nutrient_id	amount
Dairy and Egg Products	test_long description	test_Short Description	test_Manufacturer Name	test_scientific Name	3	0.5	chicken, bone removed	466.0			646	4.1

After update all options i chanced as test_*(row name) as test also group of food changed with clicking another group in the table in update page

	id	food_group_id	long_desc	short_desc	
	Filtre	Filtre	chicken	Filtre	Filtre
13	3298	300	Babyfood, dinner, ...	BABYFOOD,DINNER,BROCCOLI & CHICK,JR	
14	3303	300	Babyfood, dinner, swe...	BABYFOOD,DINNER,SWT POTATOES&CHICK,STR	
15	4542	400	Fat, chicken	FAT,CHICKEN	
16	5000	500	Chicken, broiler, ...	CHICKEN,BROILER,ROTISSERIE,BBQ,BREAST MEAT ONLY	
17	5001	500	Chicken, broilers or ...	CHICKEN,BROILERS OR FRYERS,MEAT&SKN&GIBLETS&NECK,RAW	
18	5002	500	Chicken, broilers or ...	CHICKEN,BROILER OR FRYER,MEAT&SKN&GIBLETS&NECK,FRIED,BATTER	
19	5003	500	Chicken, broilers or ...	CHICKEN,BROILERS OR FRYERS,MEAT&SKN&GIBLETS&NECK,FRIED,FLR	
20	5004	500	Chicken, broilers or ...	CHICKEN,BROILERS OR FRYERS,MEAT&SKN&GIBLETS&NECK,RSTD	
21	5005	500	Chicken, broilers or ...	CHICKEN,BROILERS OR FRYERS,MEAT&SKN&GIBLETS&NECK,STWD	
22	5006	500	Chicken, broilers or ...	CHICKEN,BROILERS OR FRYERS,MEAT & SKN,RAW	
23	5008	500	Chicken, broilers or ...	CHICKEN,BROILERS OR FRYERS,MEAT&SKN,CKD,FRIED,FLR	
24	5009	500	Chicken, broilers or ...	CHICKEN,BROILERS OR FRYERS,MEAT&SKN,CKD,RSTD	
25	5010	500	Chicken, broilers or ...	CHICKEN,BROILERS OR FRYERS,MEAT&SKN,CKD,STWD	

I also check situation on DB browser this was before update

food_group_id	long_desc	short_desc	
Filtre	Filtre	test	Filtre
100	test_long description	test_Short Description	
1700	Lamb, New Zealand, imported, testes, cooked, ...	LAMB,NZ,IMP,TESTES,CKD,SOAKED & FRIED	
1700	Lamb, New Zealand, imported, testes, raw	LAMB,NZ,IMP,TESTES,RAW	

Ant this one after update ...

Food group	Short descriptions	Long descriptions	Manufacturer	Scientific name	sequence_num	amount	description	gm_weight	num_data_pts	std_dev	nutrient_id	amount	num
Dairy and Egg Products	Butter, salted	BUTTER,WITH SALT			4	1.0	stick	113.0			851	0.315	3

For milestone 3 I updated viewfoods page with adding weight and nutrition details as shown above the Picture some part of it for one food.

NOT: after clicking to see an food details from food page to viewfoods page there is a delay like 20 seconds , In my opinion I joined 3 table to food at same time so thats why it takes time a lot .. after wait 20 seconds (max) food details will be showned