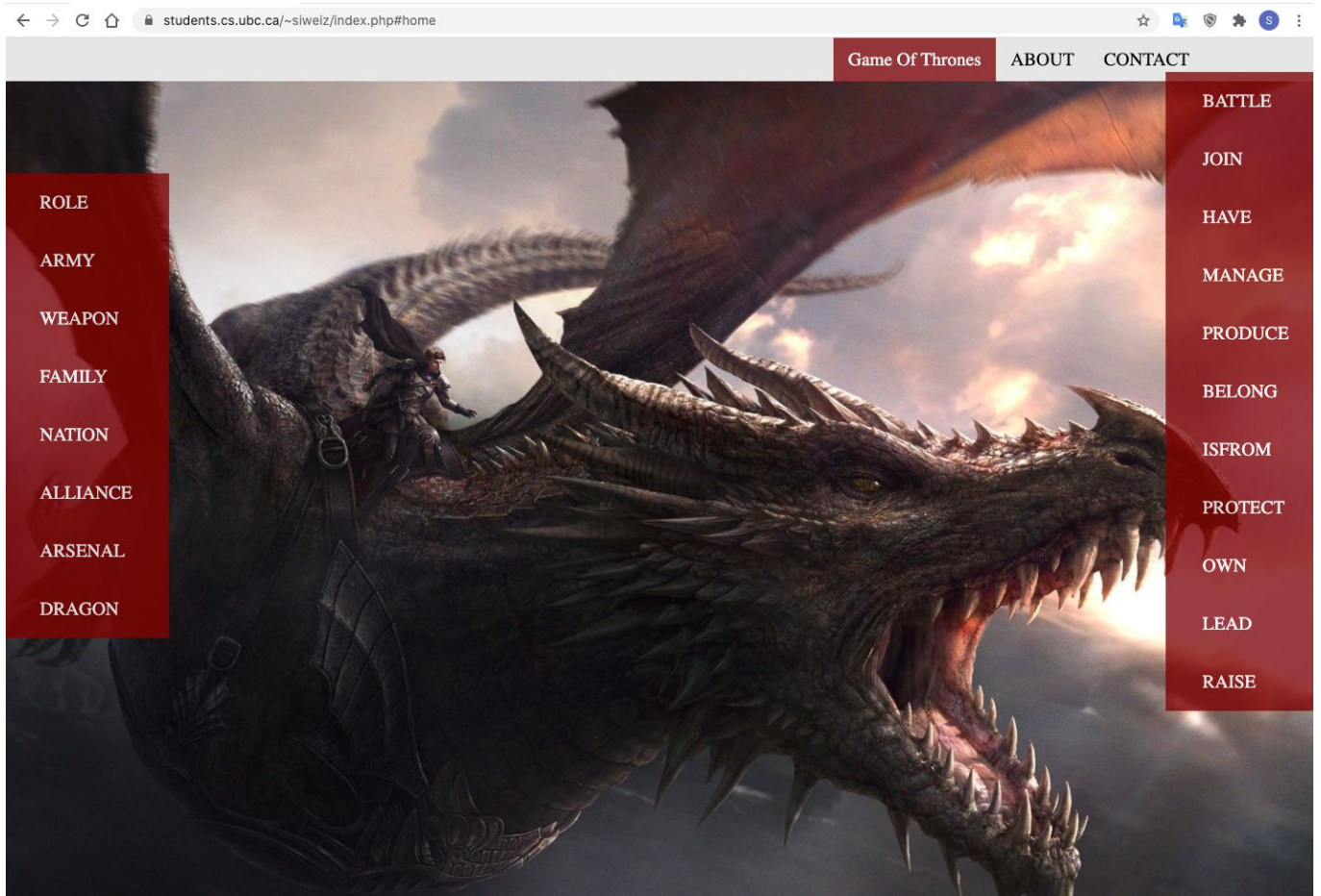
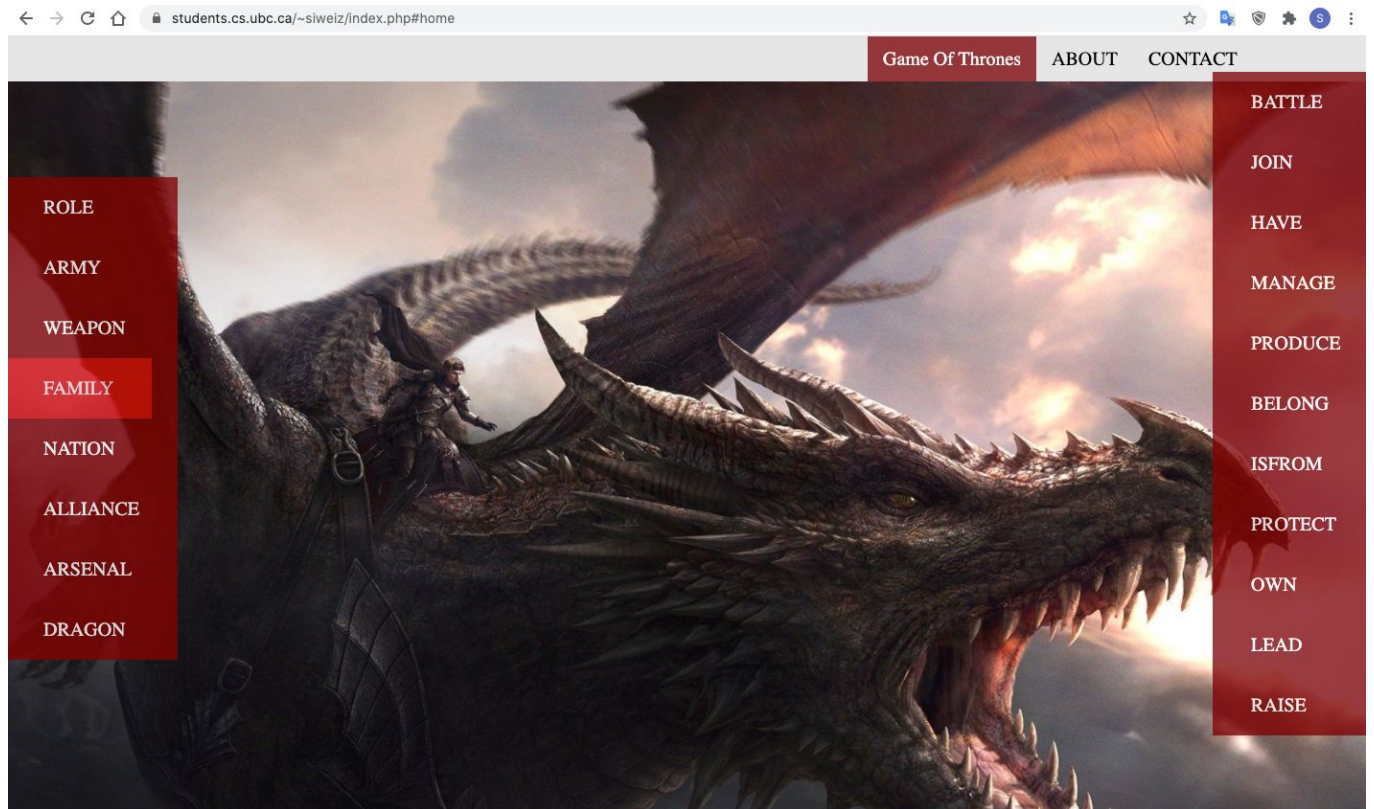


Start by go to the Home page:



Select a element (FAMILY) from the side bar



Now we move to the page for FAMILY entity

students.cs.ubc.ca/~siweiz/family.php

ROLE
FAMILY
WEAPON
ARMY
NATION
ALLIANCE
ARSENAL
DRAGON

BATTLE
JOIN
HAVE
MANAGE
PRODUCE
BELONG
ISFROM
PROTECT
OWN
LEAD
RAISE

Insert a Family

FAName:

Flag:

Mascot:

Delete a Family

FAName:

Select/List/Display tuples from Family

We click the submit button on “Select/List/Display tuples from Family”, the examples that have been already added to the database will show up.

And the display functions have been applied to all elements pages.

ALLIANCE
ARSENAL
DRAGON

Delete a Family

FAName:

Select/List/Display tuples from Family


The number of tuples in family: 6

Retrieved data from table family:

FAName	Flag	Mascot
Stark	Black Leopard	Leopard
Tyrell	Gold Deer	Banner Snake
Bla	Gold Deer	Banner Snake
Targaryen	3 Head Dragon	Dragon
Greyjoy	Sigil	Banner Monster
Lannister	Red Lion	Banner Lion

Now we want to insert a new Family to the table, complete the input box then click “insert”

ROLE
FAMILY
WEAPON
ARMY
NATION
ALLIANCE
ARSENAL
DRAGON



Insert a Family

FAName:

Flag:

Mascot:

Delete a Family

FAName:

Select/List/Display tuples from Family

Then click display tuples from family, the new added Family will show in the table

<div>ALLIANCE</div> <div>ARSENAL</div> <div>DRAGON</div>	<div>Delete a Family</div> <div>FAName: <input type="text"/></div> <div><input type="button" value="Delete"/></div>
	<div>Select/List/Display tuples from Family</div> <div><input type="button" value="Submit"/></div>
	<div>The number of tuples in family: 7</div> <div>Retrieved data from table family:</div> <div> FAName Flag Mascot Stark Black Leopard Leopard Tyrell Gold Deer Banner Snake Bla Gold Deer Banner Snake Targaryen 3 Head Dragon Dragon Greyjoy Sigil Banner Monster Lannister Red Lion Banner Lion TestFamily testFlag testMascot / </div>

The insert functions have been applied to all elements pages.

To delete a Family, type the FAName of the family in the input box for deletion, then click “delete”.

<div>WEAPON</div> <div>ARMY</div> <div>NATION</div> <div>ALLIANCE</div> <div>ARSENAL</div> <div>DRAGON</div>	<div>Insert a Family</div> <div>FAName: <input type="text"/></div> <div>Flag: <input type="text"/></div> <div>Mascot: <input type="text"/></div> <div><input type="button" value="Insert"/></div>
	<div>Delete a Family</div> <div>FAName: <input type="text" value="TestFamily"/></div> <div><input type="button" value="Delete"/></div>
	<div>Select/List/Display tuples from Family</div> <div><input type="button" value="Submit"/></div>

The number of tuples in family: 7
Retrieved data from table family:

Then click display tuples from family, the deleted Family will disappear in the table

NATION	Insert
ALLIANCE	Delete a Family
ARSENAL	FAName: <input type="text"/>
DRAGON	Delete
Select/List/Display tuples from Family	
Submit	

The number of tuples in family: 6

Retrieved data from table family:

FAName Flag Mascot

Stark Black Leopard Leopard
 Tyrell Gold Deer Banner Snake
 Bla Gold Deer Banner Snake
 Targaryen 3 Head Dragon Dragon
 Greyjoy Sigil Banner Monster
 Lannister Red Lion Banner Lion
 //

In the WEAPON page, click “**Display tuples from Weapon**”, a list of weapons will show up

FAMILY	Submit
NATION	Maximum Attack Weapon
ALLIANCE	Submit
ARSENAL	Increase weapon attack by 1
DRAGON	Weapon Name: <input type="text"/>
Submit	

The number of tuples in weapon: 10

Retrieved data from table weapon:

WEId Level WEAttack Defence ARId ROName

Atomic Bomb 1 2000 30 2 Jon Snow
 Mini Gun 1 2000 30 2 Tony Stark
 Straw 20 200000 0 2 Tony Stark
 Mug 20 1 1 2 Ned Stark
 Zibra 20 3030303 509999 2 Ned Stark
 Xiao Gun Zi 20 8 50 2 Ned Stark
 AK47 20 8888 50 2 Ned Stark
 M416 50 8888888 588880 1 Theon
 Frying Pan 0 20 50000 1 Daenerys
 Vibranium Shield 20 8888 50 3 Ned Stark
 //

Click “Maximum Attack Weapon”, it will show the name of the weapon that has the largest attack value.

We use nested aggregation in this query.

NATION	Attack: <input type="text"/> ROname: <input type="text"/> <input type="button" value="Insert"/>
ALLIANCE	
ARSENAL	Select/List/Display tuples from Weapon <input type="button" value="Submit"/>
DRAGON	
Maximum Attack Weapon <input type="button" value="Submit"/>	
Increase weapon attack by 1 Weapon Name: <input type="text"/> <input type="button" value="Submit"/>	
Retrieved the id of maximum attack weapon: M416 //	

To increase a weapon's attack value by one, enter the weapon's name you want to update, then click submit

ALLIANCE	<input type="button" value="Insert"/>
ARSENAL	Select/List/Display tuples from Weapon <input type="button" value="Submit"/>
DRAGON	
Maximum Attack Weapon <input type="button" value="Submit"/>	
Increase weapon attack by 1 Weapon Name: <input type="text" value="Frying Pan"/> <input type="button" value="Submit"/>	

Then click display tuples from Weapon, you will see that Frying Pan's attack value has been changed to 21 from 20.

NATION ALLIANCE ARSENAL DRAGON	Maximum Attack Weapon	
	<input type="button" value="Submit"/>	
	Increase weapon attack by 1	
	Weapon Name: <input type="text"/> <input type="button" value="Submit"/>	

The number of tuples in weapon: 10

Retrieved data from table weapon:

WEId	Level	WEAttack	Defence	ARId	ROName
Atomic Bomb	1	2000	30	2	Jon Snow
Mini Gun	1	2000	30	2	Tony Stark
Straw	20	200000	0	2	Tony Stark
Mug	20	1	1	2	Ned Stark
Zibra	20	3030303	509999	2	Ned Stark
Xiao Gun Zi	20	8	50	2	Ned Stark
AK47	20	8888	50	2	Ned Stark
M416	50	8888888	588880	1	Theon
Frying Pan	0	21	50000	1	Daenerys
Vibranium Shield	20	8888	50	3	Ned Stark

//

In the ROLE page, you can check the roles in the Stark Family that have more than 1 weapon by clicking the “submit” button

FAMILY NATION ALLIANCE ARSENAL DRAGON	ROName: <input type="text"/>	PRODUCE BELONG ISFROM PROTECT OWN LEAD RAISE
	Age: <input type="text"/>	
	Gender: <input type="text"/>	
	FAName: <input type="text"/>	
	NAName: <input type="text"/>	
	Title: <input type="text"/>	
Leader: <input type="text"/>	<input type="button" value="Insert"/>	
Roles in Stark FAMILY who has multiple weapons		
<input type="button" value="Submit"/>		
Select/List/Display tuples from ROLE		
<input type="button" value="Submit"/>		

Retrieved the role name of who owns multiple weapons:

ROName
Ned Stark
Tony Stark

We use “group by” and “having” in this query.

