COMP-3077 Winter 2024
Web Data Management

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School of Computer Science
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Instructions:

- Mark: **5 points** for complete work. This assignment should be done individually. Late submission is subject to 10% per late day penalty.

- Due date: **Friday March 1st** (end of day)

- Create a new folder assignment4 inside assignments on MyWeb, inside it create 2 subfolders, html and js. All php files must be stored and accessed from the html folder.

- Submit on Brightspace the links for the files *part_a.php*, *part_b.php* and *part_c.html*.

Questions:

part_a.php

1. Create user_codes and user_profiles tables based on Figs. 1, 2, 3 and 3 shown below. The user_profiles is referencing user_codes(user_code) using the foreign key usercode.

Field	Type	Null	Key	Default	Extra
fname	varchar(30)	NO		NULL	
lname	varchar(30)	NO		NULL	
usercode	int(11)	NO	MUL	NULL	
created_date	timestamp	NO		CURRENT_TIMESTAMP	
email	varchar(100)	NO	PRI	NULL	
password	varchar(30)	NO		NULL	

Figure 1: user_profiles table fields

Field	Type	Null	Key	Default	Extra
user_code	int(11)	NO	PRI	NULL	
user_description	varchar(30)	NO		NULL	
created_date	timestamp	NO		CURRENT_TIMESTAMP	

Figure 2: user_codes table fields

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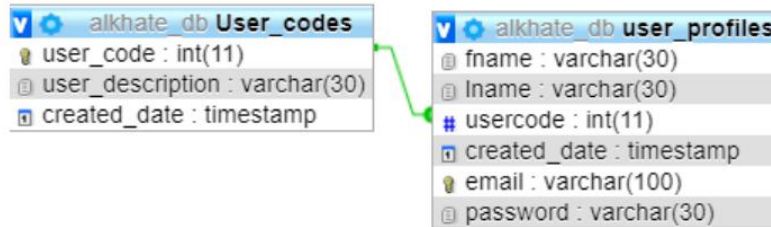
sajak@uwindsor.ca

Figure 3: Relationship between user_profiles and user_codes

2. Insert the following 2 records into user_codes:

```
INSERT INTO `User_codes` (`user_code`, `user_description`, `created_date`)
VALUES ('1', 'user', CURRENT_TIMESTAMP);

INSERT INTO `User_codes` (`user_code`, `user_description`, `created_date`)
VALUES ('2', 'admin', CURRENT_TIMESTAMP);
```

3. Create a php form in *part_a.php* file as seen in Fig. 4, where the user can insert a record, if the insertion process works fine, you may print(echo) "Record inserted successfully."; otherwise, print an error message. The usercodes (user type dropdown list) must read the values dynamically from user_codes table. The form calls the same page for the second visit with post method.

Figure 4: the profiles form

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4. The PHP insert statement must use prepare and execute with placeholders for the inserted values. It must also use real_escape_string function to delete any unwanted character from those values.

part_b.php

1. You will create *part_b.php* file that creates a gstatic pie chart that reads the values of the sectors dynamically from classics table using the following select statement:

```
SELECT category,count (*) as cnt

FROM `classics`

group by category;
```

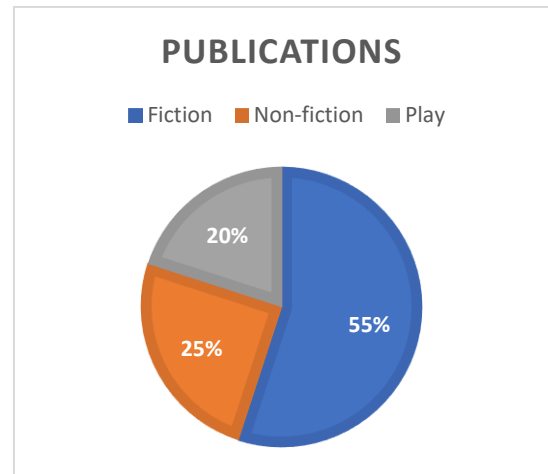2. The resulting chart will look like this Fig 5.

Figure 5: percentage of the publications based on the category.

The second column count (*) will have the name **cnt** as synonym.

part_c.html

1. Create *part_c.html* web page that has a google map directions between University of Windsor main campus and the downtown campus. The output must look like Fig. 6.
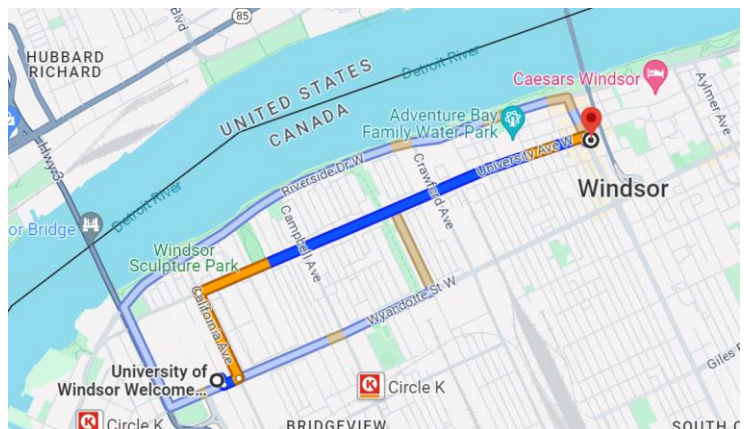

Figure 6: Direction from UWindsor main campus and downtown campus