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Homework 4	Name	Cheung, Won Sik

MySQL 쿼리

CREATE TABLE `class_web`.`user`(`NAME` VARCHAR(20) CHARACTER SET utf8 COLLATE utf8_general_ci NOT NULL, `ID` VARCHAR(20) NOT NULL PRIMARY KEY, `PASSWORD` VARCHAR(128) NOT NULL, `GENDER` VARCHAR(2) NOT NULL, `MAJOR` VARCHAR(10) NOT NULL, `YEAR` INT NOT NULL, `MESSAGE` VARCHAR(512) CHARACTER SET utf8 COLLATE utf8_general_ci) ENGINE=InnoDB CHARSET=utf8 COLLATE utf8_general_ci;

결과

#	이름	종류	데이터정렬방식	보기	Null	기본값	설명
1	NAME	varchar(20)	utf8_general_ci		아니오	없음	
2	ID 🔑	varchar(20)	utf8_general_ci		아니오	없음	
3	PASSWORD	varchar(128)	utf8_general_ci		아니오	없음	
4	GENDER	varchar(2)	utf8_general_ci		아니오	없음	
5	MAJOR	varchar(10)	utf8_general_ci		아니오	없음	
6	YEAR	int(11)			아니오	없음	
7	MESSAGE	varchar(512)	utf8_general_ci		예	NULL	

HTML 코드

form 태그와 fieldset 태그를 이용하여 유저가 회원가입 할 수 있는 인터페이스를 제공한다.
Name과 ID는 text 타입으로 input을 받는다. Password는 password 타입으로 input을 받는다.
Gender는 radio 타입으로 input을 받는다. Major는 checkbox 타입으로 받으며 name을 major[]
로 지정하여 php상에서 배열로 다룰수 있도록 한다. Year는 select로 받으며 마지막으로
Message는 textarea 로 받는다.

```
<h3>Sign Up Page</h3>
<form action="hw4.php" method="POST">
     <fieldset> 
<legend>Type Your Personal Information
/legend>
          Name <input type="text" name="name">
           ID <input type="text" name="id">
           Password <input type="password" name="password">
           Gender
                <input type="radio" name="gender" value="M">Male
<input type="radio" name="gender" value="F">Female
          Major
                <input type="checkbox" name="major[]" value="GLS">Global Leadership School
<input type="checkbox" name="major[]" value="IS">International Studies
                <input type="checkbox" name="major[]" value="LL">Language Literature
                <input type="checkbox" name="major[]" value="Man">Management
                <input type="checkbox" name="major[]" value="Eco">Economics
                <input type="checkbox" name="major[]" value="CS">Computer Science
               <input type="checkbox" name="major[]" value="EE">Electrical Engineering
<input type="checkbox" name="major[]" value="GE">Global Entrepreneurship
<input type="checkbox" name="major[]" value="ICT">Information Communication Technology
                <br>
```

결과

Sign Up Page

-Tune Vous Personal Intermetion	
Type Your Personal Information	
Name	
ID	
Password	
Gender O Male O Female	
A CONTROLL OF THE CONTROL OF THE CON	
Major	
Global Leadership School International Studies Language Literature	
Management Economics Computer Science	
☐ Electrical Engineering ☐ Global Entrepreneurship ☐ Information Communication Technology	
Year Freshman ▼	
Message	
The Stage	
Submit	

PHP 코드

회원가입 정보를 DB에 삽입 하는 코드

```
$conn = mysqli_connect($db_host, $db_user, $db_pw, $db_name);

if(mysqli_connect_errno($conn)){
    echo "Database connection failed: ".mysqli_connect_error();
}else{
    //echo "Database connected";
}

$name = $pOST['name'];
$id = $pOST['id'];
$pw = $pOST['jeasword'];
$gender = $pOST['gender'];

// major array to major string by using implode built-in function
$majors = $pOST['major'];
$major_str = implode(", ", $majors);

$year = $pOST['west'];
$message = $pOST['message'];
// if message is longer than 512 characters, make it truncated by using substr built-in function
if(strlen($message) >= 512){
    $message = substr($message, 0, 512);
}

if(checkIDDuplicated($id, $conn)){
    echo "Duplicated ID";
}else{
    addAttribute($name, $id, $pw, $gender, $major_str, $year, $message, $conn);
}
```

ID 중복 확인 함수 및 DB 데이터 삽입 함수

```
// return true if id was duplicated else return false
function checkIDDuplicated($id, $conn){
    $qry = "SELECT id FROM user WHERE id='".$id."'";
    $result = mysqli_query($conn, $qry);
    $row = mysqli_fetch_array($result);
    // No such id in user table
    if($row == NULL)
        return FALSE;
    else
        return TRUE;
}

function addAttribute($name, $id, $pw, $gender, $major, $year, $message, $conn){
        $qry = "INSERT INTO `user` VALUES(".$name."', '".$id."', '".$pw."', '".$gender."', '".$major."', '".$message."')";
        $result = mysqli_query($conn, $qry);
        if($result == FALSE)
        echo "Add Attribute Failure";
}
```

결과를 보여주는 코드

HTMI 코드

```
<!DOCTYPE html>
<html>
  <head>
     <meta charset="utf-8"/>
     <title>HW4</title>
  </head>
     <h3>Sign Up Result</h3>
     <caption>User List</caption>
        Name
           ID
           Password
           Gender
           Major
           Year
           Message
        <?php
           showTable($conn);
        ?>
     </body>
</html>
```

테이블 삽입 함수

```
function showTable($conn){
    $qry = "SELECT * FROM `user`";
    $result = mysqli_query($conn, $qry);
    while($row = mysqli_fetch_array($result)){
        echo "";
        echo "";
        echo "".$row['NAME']."";
        echo "".$row['ID']."";
        echo "".$row['PASSWORD']."";
        echo "".$row['GENDER']."";
        echo "".$row['MAJOR']."";
        echo "".$row['YEAR']."";
        echo "".$row['MESSAGE']."";
        echo "
        </rr>
        </rr>
```

결과

첫번째 삽입

Sign Up Result						
User List						
Name	ID	Password	Gender	Major	Year	Message
정원식	cws0173	1q2w3e4r	M	CS	3	Hello World!

ID 중복시 중복 메시지 보여주고 삽입하지 않음

Juplica	ted ID					
Sign L	Jp Result	t				
		l	Jser List			
Name	ID	Password		Major	Year	Message

복수 전공시 두 전공을 문자열로 바꾸어 입력

Sign Up Result

User List

Name	ID	Password	Gender	Major	Year	Message
정원식	cws0173	1q2w3e4r	M	CS	3	Hello World!
김태화	kimtaehwan12	1234awer	М	CS. EE	3	Hello World!