

PHP, MySQL

천재권

목차

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1. PHP 기본 문법

```
<?php    //PHP 주석은 서버사이드 언어라 소스보기로 못볼
$txt = "안녕하세요";//문자열
$x = 5; //정수
$y = 10.5; //실수
$X = 10;
//변수는 대소문자를 구분한다
echo "x = $x, X= $X";
//전역변수
//로컬변수
$x = 5;
function myTest() {
    global $x; //나는 전역 변수 사용할거야
    $x++; //더하기 1
    echo "<br>";
    echo "변수 x의 출력값 $x";
    echo "<br>";
}

myTest();
echo "변수 x의 출력값 $x"
?>
```

```
<?php
/*
echo "1";
print "2";

echo("3");
print("4");*/

echo "<h2>PHP는 재밌다</h2>";
echo "Hello world <br>";
echo "I'm about to<br>"; //mark up 같이 사용 가능

$txt = "Learn PHP";
$x = 5;
$y = 5;
echo "<h2>".$txt."</h2>";
echo $x + $y;

$x = 3333;
var_dump($x); #무슨형인지 확인할 수 있는 함수 int, float
$x_len = strlen("한글"); #문자 길이 구하는거

print $x_len;
echo str_word_count("Hello World"); #단어 개수 세는거 한글 x

$a = strpos("Hello world","world"); #world가 몇번째 칸부터 시작되는지
#email인지 아닌지 구분할때 @
$email = "aaa@gmail.com";

if (strpos($email,"@")) {
    echo "이메일 형식에 맞음";
} else {
    echo "이메일 형식 잘못됨";
}

?>
```

1. PHP 기본 문법

```
<?php
$coworkers = array('egoing', 'leezche', 'duru');
echo $coworkers[1]. '<br>';
var_dump(count($coworkers));
array_push($coworkers, 'graphittie');
'<br>';
var_dump($coworkers);
?>
```

```
<?php
function Cal($left, $right){
    $left+$right;
}

Cal(8,4);
?>
<h2>return</h2>
<?php
function sum2($left,$right){
    return $left + $right;
}
print(sum2(2,4));
file_put_contents('result.txt', sum2(2,4));
?>
```

1. PHP 기본 문법

```
<?php
echo "1<br>";
$i = 0;
while($i<3){
    echo '2<br>';
    $i = $i+1;
}
echo '3<br>';
?>
```

```
<?php

//break, continue

for ($i = 0; $i < 10; $i++){
    if ($i == 4) {
        // break;
        continue;
    }

    echo "이번 숫자는 $i 입니다. <br>";
}
```

2. PHP CRUD



CREATE



READ



UPDATE



DELETE

C

R

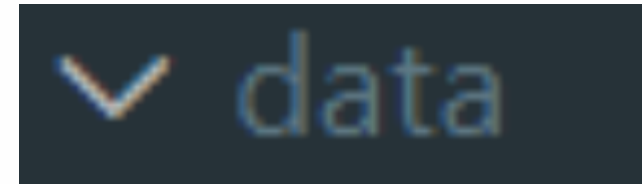
U

D

2. PHP CRUD

Main Page - index.php

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title><?php
    if(isset($_GET['id'])){
      echo $_GET['id'] ;
    } else {
      echo "SCP";
    }
  ?>
</title>
</head>
<body>
  <h1><a href="index.php">SCP</a></h1>
  <ol>
    <?php
      $list = scandir("./data");
      $i = 0;
      while($i < count($list)){
        if($list[$i]!="."){
          if($list[$i] != "..") {
            echo "<li><a href=\"index.php?id=$list[$i]\">$list[$i]</a></li>\n";
          }
        }
        $i = $i + 1;
      }
    ?>
  </ol>
```



-> scandir 함수를 사용해 list변수에
data폴더에 있는 파일을 배열로 반환

-> while문을 통해 list의 개수만큼 출력

2. PHP CRUD

Main Page - index.php

```
<a href="create.php">create</a>
<?php if(isset($_GET['id'])) {?>
    <a href="update.php?id=<?=$_GET['id']?>">update</a>
    <form action="delete_process.php" method="post">
        <input type="hidden" name="id" value="<?=$_GET['id']?>">
        <input type="submit" value="delete">
    </form>
<?php } ?>

<h2>
<?php
    if(isset($_GET['id'])) {
        echo $_GET['id'];
    } else {
        echo "SCP";
    }
?>
</h2>
<?php
    if(isset($_GET['id'])) {
        echo file_get_contents("data/" . $_GET['id']);
    } else {
        echo "천재권입니다.";
    }
?>
<br>
body>
html>
```

-> create, update, delete버튼

-> ID값을 받아와 글의 Title 출력

-> file_get_contents함수로 파일 내용을 문자열로 읽어옴

2. PHP CRUD

Main Page - index.php

```
<?php
function print_title(){
    if(isset($_GET['id'])){
        echo $_GET['id'] ;
    } else {
        echo "SCP";
    }
}

function print_description(){
    if(isset($_GET['id'])){
        echo file_get_contents("data/".$_GET['id']);
    } else {
        echo "천재권입니다.";
    }
}

function print_list(){
    $list = scandir("./data");
    $i = 0;
    while($i < count($list)){
        if($list[$i]!="."){
            if($list[$i] != "..") {
                echo "<li><a href=\"index.php?id=$list[$i]\">$list[$i]</a></li>\n";
            }
        }
        $i = $i + 1;
    }
}
```

-> Title을 설정하는 함수

-> 본문 내용을 출력하는 함수

-> 글 목록을 출력하는 함수

2. PHP CRUD

Main Page - index.php



2. PHP CRUD

Create - create.php

```
<?php
function print_title(){
    if(isset($_GET['id'])){
        echo $_GET['id'] ;
    } else {
        echo "안녕";
    }
}

function print_description(){
    if(isset($_GET['id'])){
        echo file_get_contents("data/".$_GET['id']);
    } else {
        echo "hello,php";
    }
}

function print_list(){
    $list = scandir("./data");
    $i = 0;
    while($i < count($list)){
        if($list[$i]!="."){
            if($list[$i] != "..") {
                echo "<li><a href=\"index.php?id=$list[$i]\">$list[$i]</a></li>\n";
            }
        }
        $i = $i + 1;
    }
}
```

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title><?php
        print_title();
    ?>
</title>
    <link rel="stylesheet" href="style2.css">
</head>
<body>
    <h1><a href="index.php">SCP</a></h1>
    <div class="list">
        <ol>
            <?php
                print_list();
            ?>
        </ol>
```

2. PHP CRUD

Create - create.php

```
<form action="create_process.php" method="post">
  <div class="title">
    <p>
      <input type="text" name="title" placeholder="Title">
    </p>
  </div>
  <div class="content">
    <p>
      <textarea name="description" placeholder="Description"
        style="width: 400px; height:200px"></textarea>
    </p>
  </div>
  <p>
    <input type="submit" id="submit" >
  </p>
</form>
</div>
```

-> form태그로 사용자가 제출한 데이터를
POST 방식으로
create_process.php로 보냄

입력받을 값을 title, description이라는
name에 저장

2. PHP CRUD

Create - create.php



The image shows a web form on a light yellow background. At the top center is the text SCP in a purple font. Below it is a text input field labeled 'Title'. Underneath the title field is a large text area labeled 'Description'. At the bottom center of the form is a button labeled '제출' (Submit) in Korean.

2. PHP CRUD

Create - create_process.php

```
<?php
file_put_contents('D:\xampp\htdocs\data/'
|.$_POST['title'], $_POST['description']);
header('Location:/index.php?id='.$_POST['title']);
?>
```

file_put_contents함수로 data폴더 안에
파일이름, 데이터 저장

header 함수로 사용자 이동하도록 함

SCP

안녕하세요

반갑습니다

제출

2. PHP CRUD

Create - create.php



2. PHP CRUD

Update - update.php

```
<?php
function print_title(){
    if(isset($_GET['id'])){
        echo $_GET['id'];
    } else {
        echo "Welcome";
    }
}

function print_description(){
    if(isset($_GET['id'])){
        echo file_get_contents("data/".$_GET['id']);
    } else {
        echo "Hello, PHP";
    }
}

function print_list(){
    $list = scandir('./data');
    $i = 0;
    while($i < count($list)){
        if($list[$i] != '.') {
            if($list[$i] != '..') {
                echo "<li><a href=\"index.php?id=$list[$i]\">$list[$i]</a></li>\n";
            }
        }
        $i = $i + 1;
    }
}
?>
```

```
<!DOCTYPE html>
<html>
    <head>
        <meta charset="utf-8">
        <title>
            <?php
                print_title();
            ?>
        </title>
        <link rel="stylesheet" href="style2.css">
    </head>
    <body>
        <h1><a href="index.php">SCP</a></h1>
        <div class="list">
            <ol>
                <?php
                    print_list();
                ?>
            </ol>
        </div>
        <h2>
```

2. PHP CRUD

Update - update.php

```
<div class="description">
  <form action="update_process.php" method="post">
    <input type="hidden" name="old_title" value="<?=$_GET['id']?>">
    <p>
      <input type="text" name="title" placeholder="Title" value="<?php print_title(); ?>">
    </p>
    <p>
      <textarea name="description" placeholder="Description" style="width: 400px; height: 200px;"><?php print_description(); ?></textarea>
    </p>
    <p>
      <input type="submit">
    </p>
  </form>
</div>
```

form태그로 update_process.php에 보냄
old_title이란 name에 기존 id 저장

2. PHP CRUD

Update - update_process.php

```
<?php
rename('data/'.$_POST['old_title'], 'data/'.$_POST['title']);
file_put_contents('data/'.$_POST['title'], $_POST['description']);
header('Location:/index.php?id='.$_POST['title']);
?>
```

rename이라는 함수로 파일 이름 변경

2. PHP CRUD

Update - update.php

SCP

1. 안녕하세요

2. PHP CRUD

Update - update.php



2. PHP CRUD

Delete - delete_process.php

```
<?php
unlink('data/' . $_POST['id']);
header("Location:/index.php");
?>
```

unlink함수로 지정된 파일 삭제

2. PHP CRUD

SCP

1. 너 누구야

2. 반갑습니다

3. 안녕하세요

너 누구야

who are u

[create](#) [update](#) [delete](#)

2. PHP CRUD

SCP

1. 너 누구야
2. 반갑습니다
3. 안녕하세요

너 누구야

who are u

[create](#) [update](#) [delete](#)



SCP

1. 반갑습니다
2. 안녕하세요

SCP

천재권입니다.

[create](#)

3. XSS 기본 원리

SCP

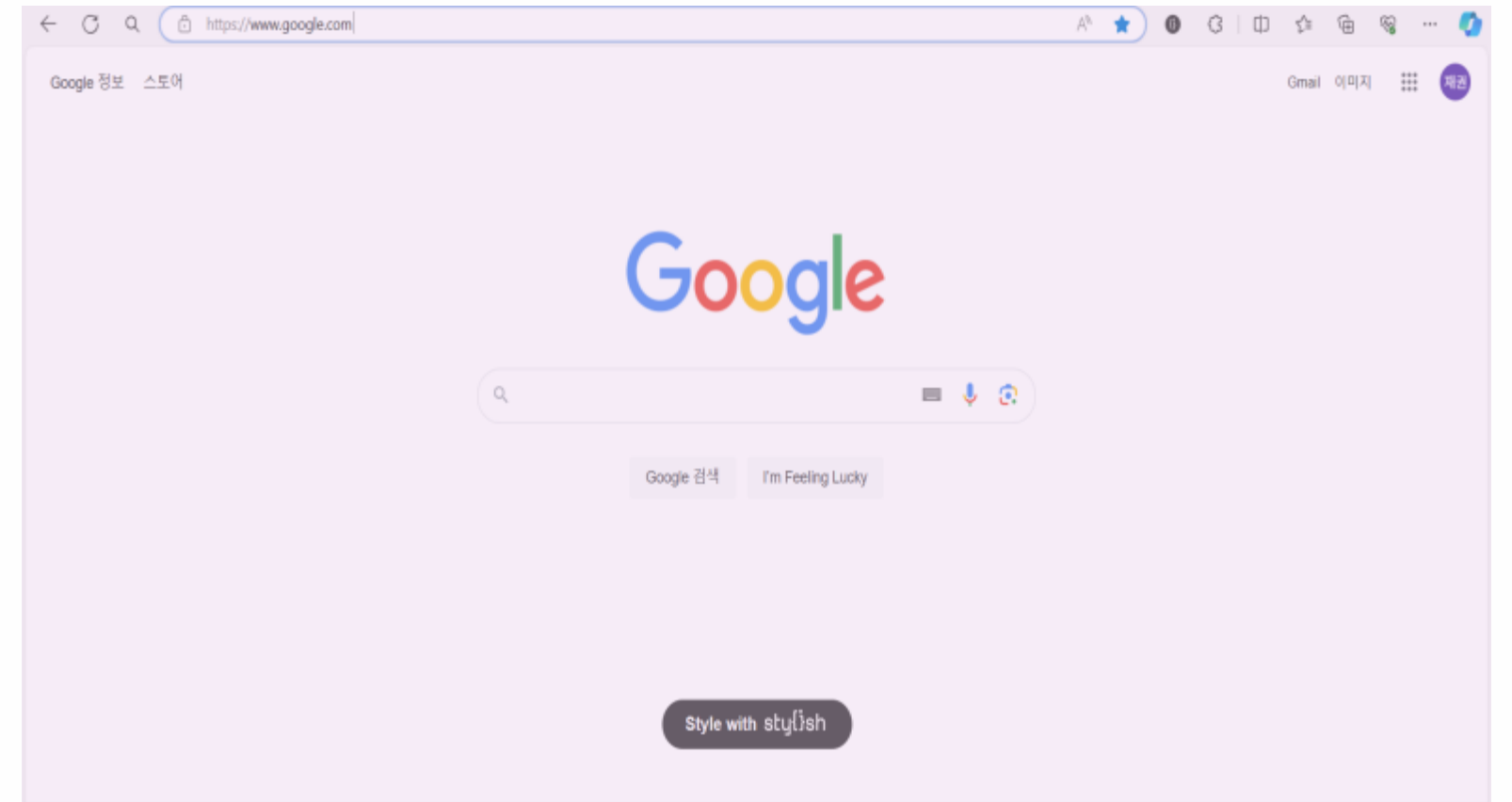
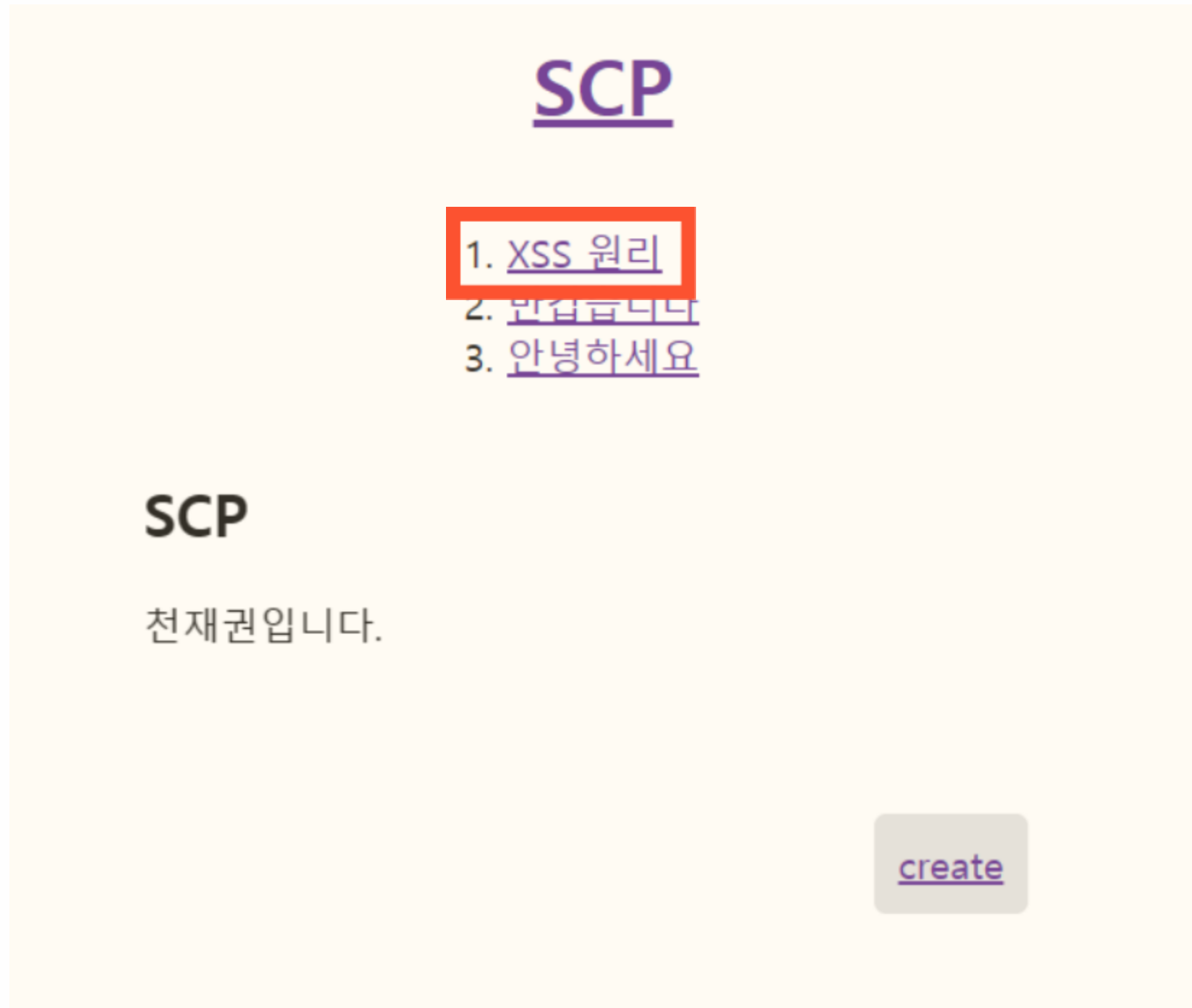
1. 반갑습니다
2. 안녕하세요

XSS 원리

```
<script>  
location.href = "https://www.google.com/";  
</script>
```

제출

3. XSS 기본 원리



3. XSS 기본 원리

방어방법

```
echo htmlspecialchars(file_get_contents("data/".$_GET['id']));
```

PHP 문자열을 HTML 특수문자로 변환해주는 함수

4. MySQL CRUD

```
Setting environment for using XAMPP for Windows.  
wornj@DESKTOP-IP8TULM d:✕xampp  
✕ mysql -u root -p  
Enter password: ✕✕✕✕  
Welcome to the MariaDB monitor.  Commands end with ; or ✕g.  
Your MariaDB connection id is 8  
Server version: 10.4.32-MariaDB mariadb.org binary distribution  
  
Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.  
Type 'help;' or '✕h' for help. Type '✕c' to clear the current input statement.
```

XAMPP shell 실행 후 root 계정으로 로그인

4. MySQL CRUD

Create

```
MariaDB [opentutorials]> create database scp;  
Query OK, 1 row affected (0.003 sec)
```

```
MariaDB [opentutorials]> show databases;
```

Database
information_schema
korea
mysql
opentutorials
performance_schema
phpmyadmin
scp
test

4. MySQL CRUD

Create

```
MariaDB [(none)]> use scp;  
Database changed
```

-> use

```
MariaDB [scp]> CREATE TABLE infor (  
  ->   id INT(10) NOT NULL AUTO_INCREMENT,  
  ->   title VARCHAR(100) NOT NULL,  
  ->   description TEXT NULL,  
  ->   created DATETIME NOT NULL,  
  ->   PRIMARY KEY (id)  
  -> );  
Query OK, 0 rows affected (0.063 sec)
```

-> CREATE TABLE

4. MySQL CRUD

Create

```
MariaDB [scp]> DESC infor;
```

Field	Type	Null	Key	Default	Extra
id	int(10)	NO	PRI	NULL	auto_increment
title	varchar(100)	NO		NULL	
description	text	YES		NULL	
created	datetime	NO		NULL	

4 rows in set (0.081 sec)

DESC명령어를 사용해 테이블 구조를 확인

4. MySQL CRUD

Create

```
MariaDB [scp]> INSERT INTO infor(title, description, created)
-> values('Hello', 'Nice to meet you', NOW());
Query OK, 1 row affected (0.053 sec)
```

INSERT 명령어를 통해 title, description, created 열 아래
내용을 삽입

4. MySQL CRUD

READ

```
MariaDB [scp]> SELECT * FROM infor;
```

id	title	description	created
1	Hello	Nice to meet you	2024-04-02 11:32:26

1 row in set (0.001 sec)

4. MySQL CRUD

READ

```
MariaDB [scp]> SELECT * FROM infor;
```

id	title	description	created
1	Hello	Nice to meet you	2024-04-02 11:32:26
2	Hi	HAHAHAHAHAHA	2024-04-02 11:51:30
3	WELCOME	WELCOME TO SQL	2024-04-02 11:53:53

```
3 rows in set (0.001 sec)
```

```
MariaDB [scp]> SELECT * FROM infor where id=3;
```

id	title	description	created
3	WELCOME	WELCOME TO SQL	2024-04-02 11:53:53

```
1 row in set (0.001 sec)
```

where 조건

3. MySQL CRUD

Update

```
MariaDB [scp]> UPDATE infor SET description="N0000",title="N0000" where id="3";
Query OK, 1 row affected (0.055 sec)
Rows matched: 1  Changed: 1  Warnings: 0

MariaDB [scp]> SELECT * FROM infor;
+----+-----+-----+-----+
| id | title | description | created |
+----+-----+-----+-----+
| 1  | Hello | Nice to meet you | 2024-04-02 11:32:26 |
| 2  | Hi    | HAHAAHAHAHAHA | 2024-04-02 11:51:30 |
| 3  | N0000 | N0000         | 2024-04-02 11:53:53 |
+----+-----+-----+-----+
3 rows in set (0.032 sec)
```

UPDATE 명령어를 통해 infor 테이블에 수정할 내용 기입
where 조건문을 통해 원하는 행만 삭제

4. MySQL CRUD

Delete

```
MariaDB [scp]> DELETE FROM infor WHERE title="N0000";  
Query OK, 1 row affected (0.053 sec)
```

```
MariaDB [scp]> SELECT * FROM infor;
```

id	title	description	created
1	Hello	Nice to meet you	2024-04-02 11:32:26
2	Hi	HAHAHAHAHAHA	2024-04-02 11:51:30

2 rows in set (0.001 sec)

DELETE 명령어 사용

Q & A