

로그인

```
<?php
    session_start();
    if(isset($_SESSION['name'])){
        echo '0'; //session not expired
    }
    else{
        echo '1'; //session expired
    }
}

//check_session.php
?>

<!DOCTYPE html>
<html>
<head>
    <title>Webslesson Tutorial</title>
    <script src="https://ajax.googleapis.com/ajax/libs/jquery/2.2.0/jquery.min.js"></script>
    <link href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.6/css/bootstrap.min.css" /> rel="stylesheet"
    <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.6/js/bootstrap.min.js"></script>
    <style>
        #box{
            width:600px;
            background:gray;
            color:white;
            margin:0 auto;
            padding:10px;
            text-align:center;
        }
    </style>
</head>
<body>
<?php
    session_start();
    if(isset($_SESSION["name"])){
        echo "<h1 align='center'>Use Ajax with Jquery in PHP to check Session Expired</h1>";
        echo "<h1 align='center'>".$_SESSION["name"]."</h1>";
        echo "<p align='center'><a href='logout.php'>Logout</a></p>";
    }
    else{
        header('location:login.php');
    }
}
?>
</body>
</html>

<!--index.php !-->
<script>
    $(function(){
        function check_session(){
            $.ajax({
                url:"check_session.php",
                method:"POST",
                success:function(data){
                    if(data == '1'){
                        alert('Your session has been expired!');
                        window.location.href="login.php";
                    }else{
                        alert('session alive');
                    }
                }
            });
        }
        setInterval(check_session, 3000);
    });
</script>
```

```

<?php
    //login.php      localhost/login/
    $servername = 'localhost';
    $username = 'root';
    $password = 'autoset';
    $dbname = 'member';

    $connect = mysqli_connect($servername, $username, $password, $dbname);
    session_start();
    if(isset($_POST["sub"])){
        $username = mysqli_real_escape_string($connect, $_POST["name"]);
        $password = mysqli_real_escape_string($connect, $_POST["pass"]);
        $query = "SELECT * FROM mj_member WHERE user = '". $username.'" AND password =
        '". $password.'"";
        $result = mysqli_query($connect, $query);

        if(mysqli_num_rows($result) > 0){
            //세션 설정
            $_SESSION["name"] = $_POST["name"];
            header("location:index.php");
        }
        else{
            echo '<script>alert("Wrong Data")</script>';
        }
    }
?>

<!DOCTYPE html>
<html>
<head>
    <title>Webslesson Tutorial</title>
    <script src="https://ajax.googleapis.com/ajax/libs/jquery/2.2.0/jquery.min.js"></script>
    <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.6/css/bootstrap.min.css" />
    <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.6/js/bootstrap.min.js"></script>
    <style>
        #box{
            width:600px;
            background:gray;
            color:white;
            margin:0 auto;
            padding:10px;
            text-align:center;
            margin-top:100px;
        }
    </style>
</head>
<body>
    <div id="box">
        <h1 align="center">Use Ajax with Jquery in PHP to check Session Expired</h1>
        <h2>Login</h2>
        <form method="post">
            <input type="text" name="name" id="name" placeholder="Enter Username"
            class="form-control" /><br />
            <input type="password" name="pass" id="pass" placeholder="Enter Pass"
            class="form-control" /><br />
            <input type="submit" name="sub" id="sub" class="btn btn-info" value="Submit" />
        </form>
        <br>
        <br>
    </div>
</body>
</html>

<script>
$(document).ready(function(){
    function check_session(){
        $.ajax({
            url:"check_session.php",

```

```
        method:"POST",
        success:function(data){
            if(data == '1'){
                console.log('Your session has been expired!');
                window.location.href="login.php";
            }else{
                console.log('session alive');
            }
        }
    });
}
setInterval(check_session, 3000);
});
</script>
```

```
<?php
//logout.php
session_start();
session_destroy();
header('location:login.php');
?>
```

```

<!DOCTYPE HTML>
<html lang='ko'>
<head>
    <title>회원관리</title>
    <meta charset='utf-8'>

    <style>
        table{border-collapse:collapse; margin:100px auto;}
        td{border:1px solid #ddd; padding:10px 40px;}
    </style>
</head>
<body>
<?php
    $cnt=0;

    $servername = "localhost";
    $username = "moonjongw";
    $password = "moon0108";
    $dbname = "moonjongw";

    $conn = new mysqli($servername, $username, $password, $dbname);

    if (!$conn) {
        die("Connection failed: 실패" . mysqli_connect_error());
    }
    else{
        echo "Connection successfully: 성공";
    }

    $sql = "select * from member";
    $result = mysqli_query($conn, $sql);

    echo "<table>";

    if (mysqli_num_rows($result) > 0) {
        while($row = mysqli_fetch_assoc($result)) {
            $cnt++;
            echo "<tr>";
            echo '<td>' . $cnt . '</td><td>' . $row['id'] . '</td><td>' . $row['pw'] . '</td><td>'
. $row['name'] . '</td>';
            echo "</tr>";
        }
    } else {
        echo "0 results";
    }
    echo "</table>";

    mysqli_close($conn);
?>

</body>
</html>

```

```

<!DOCTYPE HTML>
<html lang='ko'>
<head>
    <title>회원관리</title>
    <meta charset='utf-8'>

    <style>
        table{border-collapse:collapse; margin:100px auto;}
        td{border:1px solid #ddd; padding:10px 40px;}
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</head>
<body>
<?php
    $cnt=0;

    $servername = "localhost";
    $username = "root";
    $password = "autoset";
    $dbname = "member";

    $conn = new mysqli($servername, $username, $password, $dbname);

    if (!$conn) {
        die("Connection failed: 실패" . mysqli_connect_error());
    }
    else{
        echo "Connection successfully: 성공";
    }

    $sql0 = "alter table mj_member auto_increment=1";
    mysqli_query($conn, $sql0);

    $sql1 = "insert into mj_member(id, pw, name) values
        ('moonjong01', 'mj1301', '문선종'),
        ('moonjong02', 'mj1302', '김대진'),
        ('moonjong03', 'mj1303', '이범석'),
        ('moonjong04', 'mj1304', '황혜진'),
        ('moonjong05', 'mj1305', '이소라'),
        ('moonjong06', 'mj1306', '차영심'),
        ('moonjong07', 'mj1307', '이성신'),
        ('moonjong08', 'mj1308', '김진아'),
        ('moonjong09', 'mj1309', '차분희'),
        ('moonjong10', 'mj1310', '최혜진');
    mysqli_query($conn, $sql1);

    // $sql = "delete from mj_member";
    // mysqli_query($conn, $sql);

    $sql2 = "select * from mj_member";
    $result = mysqli_query($conn, $sql2);

    echo "<table>";

    if (mysqli_num_rows($result) > 0) {
        while($row = mysqli_fetch_assoc($result)) {
            $cnt++;
            echo "<tr>";
            echo '<td>' . $row['idx'] . '</td><td>' . $row['id'] . '</td><td>' . $row['pw'] .
'</td><td>' . $row['name'] . '</td>';
            echo "</tr>";
        }
    } else {

```

```
        echo "0 results";  
    }  
    echo "</table>";
```

```
?>    mysqli_close($conn);
```

```
</body>  
</html>
```

```

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    $servername = "localhost";
    $username = "moonjongw";
    $password = "moon0108";
    $dbname = "moonjongw";

    $conn = new mysqli($servername, $username, $password, $dbname);

    if (!$conn) {
        die("Connection failed: 실패" . mysqli_connect_error());
    }
    else{
        echo "Connection successfully: 성공";
    }

    $sql = "select * from db_member";
    $result = mysqli_query($conn, $sql);

    echo "<table>";

    if (mysqli_num_rows($result) > 0) {
        while($row = mysqli_fetch_assoc($result)) {
            $cnt++;
            echo "<tr>";
            echo '<td>' . $cnt . '</td><td>' . $row['id'] . '</td><td>' . $row['pw'] . '</td><td>'
. $row['name'] . '</td>';
            echo "</tr>";
        }
    } else {
        echo "0 results";
    }
    echo "</table>";

    mysqli_close($conn);
?>

</body>
</html>

```

```

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    $username = "moonjongw";
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    $conn = new mysqli($servername, $username, $password, $dbname);

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        die("Connection failed: 실패" . mysqli_connect_error());
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        echo "Connection successfully: 성공";
    }

    $sql0 = "alter table mj_member auto_increment=1";
    mysqli_query($conn, $sql0);

    $sql1 = "insert into mj_member(id, pw, name) values
        ('moonjong01', 'mj1301', '문선종'),
        ('moonjong02', 'mj1302', '김대진'),
        ('moonjong03', 'mj1303', '이범석'),
        ('moonjong04', 'mj1304', '황혜진'),
        ('moonjong05', 'mj1305', '이소라'),
        ('moonjong06', 'mj1306', '차영심'),
        ('moonjong07', 'mj1307', '이성신'),
        ('moonjong08', 'mj1308', '김진아'),
        ('moonjong09', 'mj1309', '차분희'),
        ('moonjong10', 'mj1310', '최혜진');
    mysqli_query($conn, $sql1);

    // $sql = "delete from mj_member";
    // mysqli_query($conn, $sql);

    $sql2 = "select * from mj_member";
    $result = mysqli_query($conn, $sql2);

    echo "<table>";

    if (mysqli_num_rows($result) > 0) {
        while($row = mysqli_fetch_assoc($result)) {
            $cnt++;
            echo "<tr>";
            echo '<td>' . $row['idx'] . '</td><td>' . $row['id'] . '</td><td>' . $row['pw'] .
'</td><td>' . $row['name'] . '</td>';
            echo "</tr>";
        }
    } else {

```



```
        echo "0 results";  
    }  
    echo "</table>";
```

```
?>        mysqli_close($conn);
```

```
</body>  
</html>
```

```

<!DOCTYPE html>
<html>
  <head>
    <meta charset="utf-8">
    <title></title>
  </head>
  <body>

<?php

$query = "SELECT * FROM user_data";
$result = mysqli_query($conn, $query);
$row = mysqli_fetch_row($result);
echo "<TABLE BORDER=1><TR>",
      "<TD>",$row[0],"</TD>",
      "<TD>",$row[1],"</TD>",
      "<TD>",$row[2],"</TD>",
      "<TD>",$row[3],"</TD>",
      "</TR></TABLE>"

?>

</body>
</html>

```

```

<!DOCTYPE html>
<html>
  <head>
    <meta charset="utf-8">
    <title></title>
  </head>
  <body>

<?php

$query = "SELECT * FROM user_data";
$result = mysqli_query($conn, $query);
$row = mysqli_fetch_assoc($result);
echo "<TABLE BORDER=1><TR>",
      "<TD>",$row['log_num'],"</TD>",
      "<TD>",$row['user_id'],"</TD>",
      "<TD>",$row['date'],"</TD>",
      "<TD>",$row['product'],"</TD>",
      "</TR></TABLE>"

?>

</body>
</html>

```

```

<!DOCTYPE html>
<html>
  <head>
    <meta charset="utf-8">
    <title></title>
  </head>
  <body>

<?php

$query = "SELECT * FROM user_data";

$result = mysqli_query($conn, $query);
$row = mysqli_fetch_row($result);

$result = mysqli_query($conn, $query);
$arr = mysqli_fetch_array($result);

```

```
print_r($row);  
echo "</br>";  
print_r($arr);
```

```
?>
```

```
</body>  
</html>
```

```
<!DOCTYPE html>  
<html>  
  <head>  
    <meta charset="utf-8">  
    <title></title>  
  </head>  
  <body>
```

```
<?php
```

```
$query = "SELECT * FROM user_data";  
$result = mysqli_query($conn, $query);  
$row = mysqli_fetch_array($result);  
echo "<TABLE BORDER=1><TR>",  
     "<TD>",$row[0], "</TD>",  
     "<TD>",$row['user_id'], "</TD>",  
     "<TD>",$row['date'], "</TD>",  
     "<TD>",$row[2], "</TD>",  
     "</TR></TABLE>"
```

```
?>
```

```
</body>  
</html>
```

```

:(function($, window, document, undefined){

    //로그인버튼 클릭 이벤트
    $('#submit').on({
        click: function(event){
            event.preventDefault();
            alert();
        }
    });

    //회원가입버튼 클릭 이벤트
    $('#gaibBtn').on({
        click: function(){
            $.mobile.changePage('#main8-gaib');
        }
    });

    $('#.memberBtn').each(function(idx){
        $(this).on({
            click: function(){

                $('#.memberBtn').removeClass('addMemberBtn');
                $(this).addClass('addMemberBtn');
                $('#.member-login').hide();
                $('#.member-login').eq(idx).show();

            }
        });
    });

    $('#.loginCloseBtn').on({
        click: function(){
            $('#header, .popup, .footPopup, .tabbar, .goTopBtn-wrap').show();
            $.mobile.changePage('#intro');
        }
    });

    //메인8가입 페이지
    $('#.m8gaib-backBtn').on({
        click: function(){

            $.mobile.changePage('#main8');

        }
    });

    //가입하기 폼
    $('#.gaib_button').on({
        click: function(){

            var txtId = $('#gaib_id').val();
            var txtPw = $('#gaib_pw').val();
            var txtName = $('#gaib_name').val();

            $.ajax({
                url: './gaib_insert.php',
                type: 'POST',
                data: {
                    gaib_id: txtId,
                    gaib_pw: txtPw,
                    gaib_name: txtName
                },
                success: function(data){

                    $.each(data, function(index, obj){
                        $('#.gaib-insa').append('<p>');
                        for(i=0; i<obj.length; i++){
                            $('#.gaib-insa').append(obj[i]);
                        }
                        $('#.gaib-insa').append('</p>');
                    });
                }
            });
        }
    });

```

```
});

$('#gaib_id').val('');
$('#gaib_pw').val('');
$('#gaib_name').val('');

},
error: function(){

}

});

}

})
```

```
})(jQuery, window, document);
//main8/main8Mykurly.js
//moonjongw.dothome.co.kr/kurly/
```

<?php

```
//DB 연동
$servername = 'localhost';
$username = 'moonjongw';
$password = 'moon0108';
$dbname = 'moonjongw';

$conn = mysqli_connect($servername, $username, $password, $dbname);
mysqli_set_charset($conn, 'utf8');

//AJAX로 넘겨받은 폼데이터를 PHP코딩 그리고 DB table : dot_member 에 저장
////////////////////////////////////

//1.AJAX로 넘겨받은 폼데이터 안에 name 을 PHP 변수에 저장
$gaib_id = $_POST['gaib_id'];
$gaib_pw = $_POST['gaib_pw'];
$gaib_name = $_POST['gaib_name'];

//2.SQL INSERT INTO ~ 실행문 DB에 저장
$sql = "insert into dot_member(id, pw, name) values
        ('".$gaib_id."', '".$gaib_pw."', '".$gaib_name."')";

mysqli_query($conn, $sql);

$query = "select * from dot_member";
$result = mysqli_query($conn, $query);

$o = array();

if( mysqli_num_rows($result)>0){
    while( $record = mysqli_fetch_row($result) ){
        $o[] = $record;
    }
}
// header("Content-Type: application/json;charset=utf-8");
header('Content-Type: application/json');

echo json_encode($o,true);
```

//gaib\_insert.php

?>

```
////////////////////////////////////
1. DB 접속
```

```
C:\Users\user>mysql -u root -p
Enter password: *****
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 8
Server version: 10.3.8-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.

MariaDB [(none)]>
```

```
////////////////////////////////////
2. Database 확인
```

```
MariaDB [(none)]> SHOW DATABASES;
+-----+
| Database |
+-----+
| information_schema |
| member |
| mysql |
| performance_schema |
| test |
| user |
+-----+
6 rows in set (0.066 sec)

MariaDB [(none)]>
```

```
////////////////////////////////////
3. Database 만들기
```

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

MariaDB [test]>
```

```
////////////////////////////////////
4. Database 삭제하기
```

```
MariaDB [test]> drop database user;
Query OK, 0 rows affected, 2 warnings (0.016 sec)
```

```
////////////////////////////////////
>> Database 삭제하고 확인하기
```

```
MariaDB [test]> show databases;
+-----+
| Database |
+-----+
| dbmember |
| information_schema |
| member |
| mysql |
| performance_schema |
| test |
+-----+
```

6 rows in set (0.003 sec)

MariaDB [test]>

```
////////////////////////////////////
5. Database 문자셋(Character Set UTF8 COLLATE UTF8_GENERAL_CI) 설정하면서 만들기
```

MariaDB [test]> create database user default character set utf8 collate utf8\_general\_ci;  
Query OK, 1 row affected (0.003 sec)

```
////////////////////////////////////
>> 문자셋팅 설정된 Database 만들고 확인하기
```

MariaDB [test]> show create database user;

Database	Create Database
user	CREATE DATABASE `user` /*!40100 DEFAULT CHARACTER SET utf8 */

1 row in set (0.000 sec)

MariaDB [test]>

```
////////////////////////////////////
                        국가별 Database 문자셋
////////////////////////////////////
```

euckr	EUC-KR Korean	euckr_korean_ci
utf8	UTF-8 Unicode	utf8_general_ci
utf8mb4	UTF-8 Unicode	utf8mb4_general_ci
utf16	UTF-16 Unicode	utf16_general_ci
:		
ujis	EUC-JP Japanese	ujis_japanese_ci
sjis	Shift-JIS Japanese	sjis_japanese_ci
cp1250	Windows Central European	cp1250_general_ci
:		

```
////////////////////////////////////
문자셋(Character set) 과 콜레이션(Collation)
CHAR, VARCHAR, TEXT 등의 문자열 Datatype에는
문자셋(Character set)과
콜레이션(Collation) 속성이 있다.
////////////////////////////////////
```

문자셋(Character set)은 각 문자가 컴퓨터에 저장될 때  
어떠한 '코드'로 저장될지에 대한 규칙의 집합을 의미하며

콜레이션(Collation)은 특정 문자 셋에 의해 데이터베이스에  
저장된 값들을 비교 검색하거나 정렬 등의 작업을 위해 문자들을  
서로 '비교' 할때 사용하는 규칙들의 집합을 의미한다.

같은 문자셋이라도 콜레이션에 따라  
영어의 경우 대소문자의 구분 비교 여부,  
일본어의 경우 히라가나와 카타카나의 구분 방법 등이 달라진다.

UTF8 문자셋을 사용하는 경우

utf8-general-ci 또는  
utf8-unicode-ci 둘중



하나를 collation으로 지정하는 경우가 많은데

utf8-general-ci는 utf8-unicode-ci 를 사용해서  
정렬할 때 보다 다소 정확도가 떨어지는 경향이 있으나 속도는 빠르다.

MySQL의 경우 utf8-general-ci 가 Default Collation이다.

```
////////////////////////////////////  
이미 만들어진 테이블&데이터베이스의 문자셋, 데이터엔진 변경하기  
////////////////////////////////////
```

```
테이블  
alter table [테이블명] engine=[엔진];  
alter table [테이블명] DEFAULT CHARACTER SET [문자셋];  
alter table [테이블명] engine=[엔진], DEFAULT CHARACTER SET [문자셋];
```

```
데이터베이스  
alter database [데이터베이스명] engine=[엔진];  
alter database [데이터베이스명] DEFAULT CHARACTER SET [문자셋];  
alter database [데이터베이스명] engine=[엔진], DEFAULT CHARACTER SET [문자셋];
```

```
////////////////////////////////////  
6. 데이터베이스 문자셋(Character Set) 변경하기
```

```
MariaDB [test]> alter database test default character set utf8 collate utf8_general_ci;  
Query OK, 1 row affected (0.035 sec)
```

```
////////////////////////////////////  
7. 데이터베이스 문자셋(Character Set) 확인하기
```

```
MariaDB [test]> show create database test;  
+-----+-----+  
| Database | Create Database |  
+-----+-----+  
| test      | CREATE DATABASE `test` /*!40100 DEFAULT CHARACTER SET utf8 */ |  
+-----+-----+  
1 row in set (0.001 sec)
```

MariaDB [test]>

```
////////////////////////////////////  
8. 테이블 만들기
```

```
MariaDB [USER]> create table member  
-> (  
-> idx int not null auto_increment,  
-> id varchar(10) not null,  
-> name varchar(20) not null,  
-> primary key(idx, id)  
-> );  
Query OK, 0 rows affected (0.083 sec)
```

////////////////////////////////////  
9. 테이블 만들고 확인하기

MariaDB [USER]> show tables;

```
+-----+  
| Tables_in_user |  
+-----+  
| member          |  
+-----+  
1 row in set (0.001 sec)
```

MariaDB [USER]>

////////////////////////////////////  
10. 테이블 삭제하기

MariaDB [USER]> drop table member;  
Query OK, 0 rows affected (0.029 sec)

////////////////////////////////////  
11. 데이터베이스베이스 엔진설정(engine=InnoDB), 문자셋(default charset=utf8) 설정 테이블 만들기

MariaDB [USER]> create table member  
-> (  
-> idx int not null auto\_increment,  
-> id varchar(20) not null,  
-> name varchar(20) not null,  
-> primary key(idx,id)  
-> ) engine=InnoDB default charset=utf8;  
Query OK, 0 rows affected (0.073 sec)

////////////////////////////////////  
12. 만들어진 테이블 속성과, 엔진, 문자셋 확인하기

MariaDB [USER]> show create table member;  
+-----+  
| Table | Create Table  
+-----+  
| member | CREATE TABLE `member` (  
 `idx` int(11) NOT NULL AUTO\_INCREMENT,  
 `id` varchar(20) NOT NULL,  
 `name` varchar(20) NOT NULL,  
 PRIMARY KEY (`idx`,`id`)  
) ENGINE=InnoDB DEFAULT CHARSET=utf8 |  
+-----+  
1 row in set (0.004 sec)

MariaDB [USER]>

////////////////////////////////////

### 13. 만들어진 테이블 문자셋(Character Set) 변경하기

```
MariaDB [test]> alter table member default character set utf8 collate utf8_general_ci;
Query OK, 0 rows affected (0.011 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

////////////////////////////////////

### 14. 테이블 문자셋(Character Set) 변경하고 확인하기

```
MariaDB [test]> show create table member;
+-----+
| Table | Create Table
+-----+
| member | CREATE TABLE `member` (
  `idx` int(11) NOT NULL,
  `id` varchar(10) CHARACTER SET utf8mb4 NOT NULL,
  `pwd` varchar(20) CHARACTER SET utf8mb4 NOT NULL,
  `name` varchar(20) CHARACTER SET utf8mb4 NOT NULL,
  PRIMARY KEY (`idx`,`id`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8 |
+-----+
1 row in set (0.010 sec)
```

////////////////////////////////////

### 15. Database 사용

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

////////////////////////////////////

### 16. Database 사용 >> Table 보기

```
MariaDB [user]> show tables;
+-----+
| Tables_in_user |
+-----+
| member          |
+-----+
1 row in set (0.001 sec)
```

////////////////////////////////////

### 17. Database 사용 >> Table 속성 보기

```
MariaDB [user]> describe member;
+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra          |
+-----+-----+-----+-----+-----+-----+
| idx   | int(11)       | NO   | PRI | NULL    | auto_increment |
| id    | varchar(20)   | NO   |     | NULL    |                |
| name  | varchar(20)   | NO   |     | NULL    |                |
```

```
| pwd | varchar(20) | NO | | NULL | |
+-----+-----+-----+-----+
4 rows in set (0.103 sec)
```

```
////////////////////////////////////
18. Database 사용 >> Table 삭제
```

```
MariaDB [user]> drop table member;
Query OK, 0 rows affected (0.081 sec)
```

```
////////////////////////////////////
19. Database 사용 >> Table 삭제 후 확인
```

```
MariaDB [user]> show tables;
Empty set (0.001 sec)
```

```
////////////////////////////////////
20. Database 삭제
```

```
MariaDB [user]> drop database user;
Query OK, 0 rows affected, 2 warnings (0.089 sec)
```

```
////////////////////////////////////
21. Database 생성
```

```
MariaDB [test]> create database dbMember;
Query OK, 1 row affected (0.001 sec)
```

```
MariaDB [test]>
```

```
////////////////////////////////////
22. Database 생성 확인
```

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

```
+-----+
| Database |
+-----+
| dbmember |
| information_schema |
| member |
| mysql |
| performance_schema |
| test |
+-----+
6 rows in set (0.002 sec)
```

```
MariaDB [test]>
```

```
////////////////////////////////////
23. 생성된 Database 안에 회원(아이디, 비밀번호, 이름) 테이블 만들기
```

```
MariaDB [test]> create table member
-> (
-> idx int not null,
-> id varchar(20) not null,
```

```
-> pw varchar(10) not null,
-> name varchar(20) not null,
-> primary key(id)
-> );
Query OK, 0 rows affected (0.087 sec)
```

```
////////////////////////////////////
24. 생성된 테이블 확인하기
```

```
MariaDB [test]> show tables;
+-----+
| Tables_in_test |
+-----+
| member          |
+-----+
1 row in set (0.002 sec)
```

```
////////////////////////////////////
25. 생성된 테이블 속성 보기
```

```
MariaDB [test]> describe member;
+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| idx   | int(11)       | NO   |     | NULL    |       |
| id    | varchar(20)   | NO   | PRI | NULL    |       |
| pw    | varchar(10)   | NO   |     | NULL    |       |
| name  | varchar(20)   | NO   |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.008 sec)
```

```
////////////////////////////////////
26. 생성된 테이블 속성 중에서 id 삭제하기
```

```
MariaDB [test]> alter table member drop column id;
Query OK, 0 rows affected, 2 warnings (0.124 sec)
Records: 0 Duplicates: 0 Warnings: 2
```

```
>> 확인하기 //////////////////////////////////
```

```
MariaDB [test]> desc member;
+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| idx   | int(11)       | NO   |     | NULL    |       |
| pwd   | varchar(20)   | NO   |     | NULL    |       |
| name  | varchar(20)   | NO   |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.037 sec)
```

```
////////////////////////////////////
27. 생성된 테이블 속성 중에서 id 추가하기
```

```
MariaDB [test]> alter table member add column id varchar(10) not null;
Query OK, 0 rows affected (0.068 sec)
```

Records: 0 Duplicates: 0 Warnings: 0

MariaDB [test]> describe member;

```
+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+
| idx   | int(11)       | NO   |     | NULL    |       |
| pwd   | varchar(20)   | NO   |     | NULL    |       |
| name  | varchar(20)   | NO   |     | NULL    |       |
| id    | varchar(10)   | NO   |     | NULL    |       |
+-----+-----+-----+-----+-----+
4 rows in set (0.010 sec)
```

////////////////////////////////////  
28. 생성된 테이블 속성 중에서 id 추가하기

MariaDB [test]> alter table member add column id varchar(10) not null;  
Query OK, 0 rows affected (0.068 sec)  
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [test]> describe member;

```
+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+
| idx   | int(11)       | NO   |     | NULL    |       |
| pwd   | varchar(20)   | NO   |     | NULL    |       |
| name  | varchar(20)   | NO   |     | NULL    |       |
| id    | varchar(10)   | NO   |     | NULL    |       |
+-----+-----+-----+-----+-----+
4 rows in set (0.010 sec)
```

////////////////////////////////////  
29. 추가된 id 속성 칸 위치 idx 다음 위치로 바꾸기

MariaDB [test]> alter table member modify column id varchar(10) not null after idx;  
Query OK, 0 rows affected (0.149 sec)  
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [test]> describe member;

```
+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+
| idx   | int(11)       | NO   |     | NULL    |       |
| id    | varchar(10)   | NO   |     | NULL    |       |
| pwd   | varchar(20)   | NO   |     | NULL    |       |
| name  | varchar(20)   | NO   |     | NULL    |       |
+-----+-----+-----+-----+-----+
4 rows in set (0.007 sec)
```

////////////////////////////////////  
30. 추가된 idx 속성 primary key 추가 변경하기

MariaDB [test]> alter table member modify idx int not null primary key;  
Query OK, 0 rows affected (0.067 sec)  
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [test]> desc member;

```
+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+
| idx   | int(11)       | NO   | PRI | NULL    |       |
| id    | varchar(10)   | NO   |     | NULL    |       |
| pwd   | varchar(20)   | NO   |     | NULL    |       |
+-----+-----+-----+-----+-----+
```

```
| name | varchar(20) | NO | | NULL | |
+-----+-----+-----+-----+-----+
4 rows in set (0.010 sec)
```

### 31. 테이블 속성 primary key 삭제하기

```
MariaDB [test]> alter table member drop primary key;
Query OK, 0 rows affected, 1 warning (0.078 sec)
Records: 0 Duplicates: 0 Warnings: 1
```

```
MariaDB [test]> desc member;
+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+
| idx   | int(11)       | NO   |     | NULL    |       |
| id    | varchar(10)   | NO   |     | NULL    |       |
| pwd   | varchar(20)   | NO   |     | NULL    |       |
| name  | varchar(20)   | NO   |     | NULL    |       |
+-----+-----+-----+-----+-----+
4 rows in set (0.018 sec)
```

### 32. 테이블 속성 primary key 추가하기

```
MariaDB [test]> alter table member add primary key(idx, id);
Query OK, 0 rows affected (0.102 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
MariaDB [test]> desc member;
+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+
| idx   | int(11)       | NO   | PRI | NULL    |       |
| id    | varchar(10)   | NO   | PRI | NULL    |       |
| pwd   | varchar(20)   | NO   |     | NULL    |       |
| name  | varchar(20)   | NO   |     | NULL    |       |
+-----+-----+-----+-----+-----+
4 rows in set (0.006 sec)
```

### 33. 테이블 데이터 입력하기

```
MariaDB [user]> insert into member(id,pw,name) values
-> ('moon01', 'mj01', '문선종'),
-> ('moon02', 'mj02', '문종'),
-> ('moon03', 'mj03', '선종'),
-> ('moon04', 'mj04', '김대중'),
-> ('moon05', 'mj05', '문재인'),
-> ('moon06', 'mj06', '문혜민'),
-> ('moon07', 'mj07', '문혜란'),
-> ('moon08', 'mj08', '정지연');
Query OK, 8 rows affected, 8 warnings (0.053 sec)
Records: 8 Duplicates: 0 Warnings: 8
```

```
MariaDB [user]>
```

### 34. 테이블 데이터 확인

```
$sql2 = "select * from mj_member";  
$result = mysqli_query($conn, $sql2);
```

////////////////////////////////////