수업 환경 구축

웹데이터베이스 구축 및 실습

구축 환경

- OS : Windows 7
  - 그외 OS의 경우 교재 p26-40 참조
  - Windows의 다른 버전은 조금 다르게 나타날 수 있음
- Browser : Google Chrome
  - 다른 브라우저를 사용해도 별 차이 없으나 추후 수업의 모든 과정은 크롬 사용
  - http://chrome.google.com

APM 설치 : AUTOSET6

AUTOSET 설치(P40~46)

http://www.autoset.org

AUTOSET 설치(P40~46)

AUTOSET 설치(P40~46)

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AUTOSET 설치(P40~46)

실행 후 사용자 계정 콘트롤이 물어볼 경우 "확인"

AUTOSET 설치(P40~46)
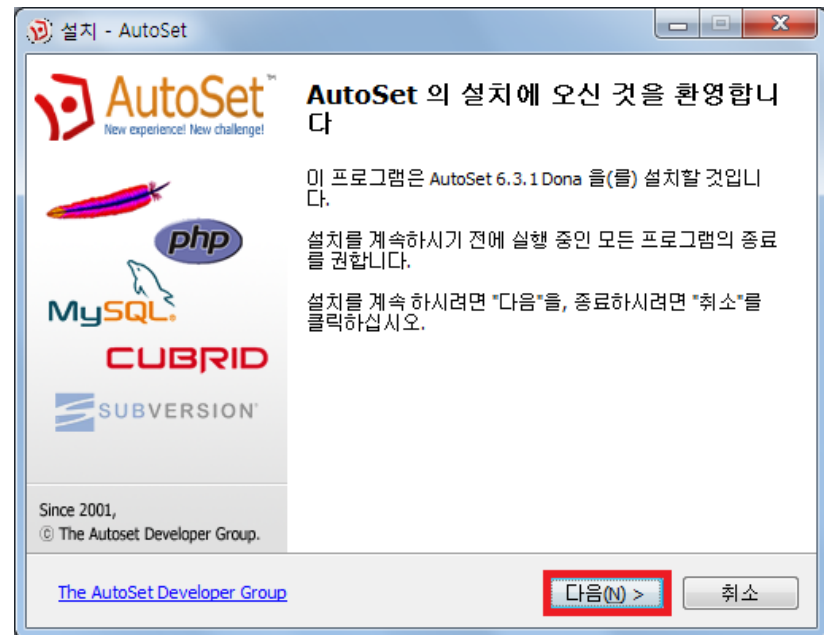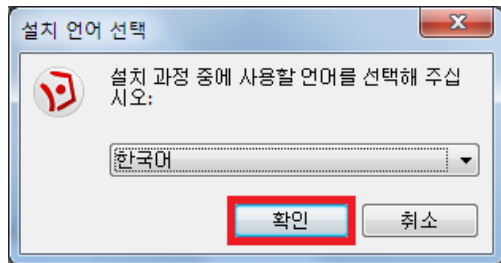
AUTOSET 설치(P40~46)

한림대학교 웹데이터베이스 – 이윤환
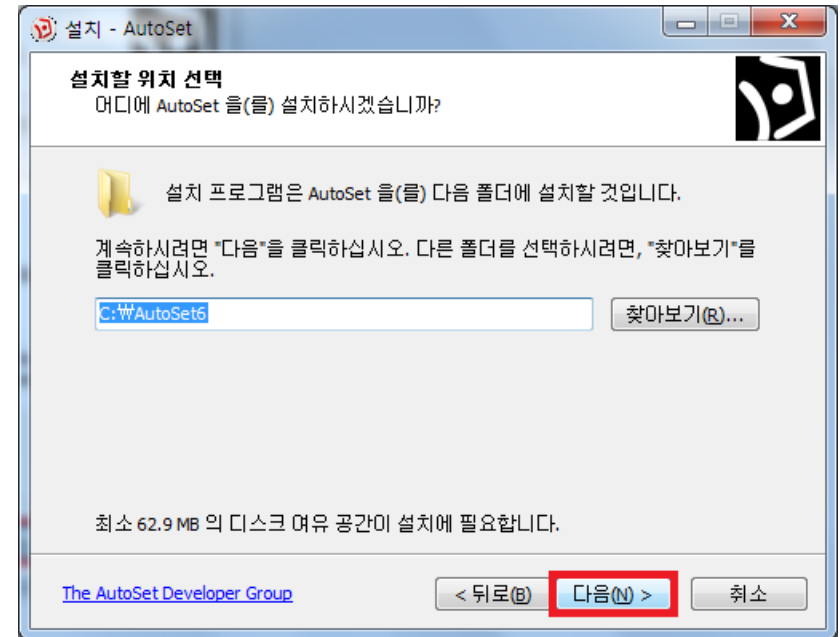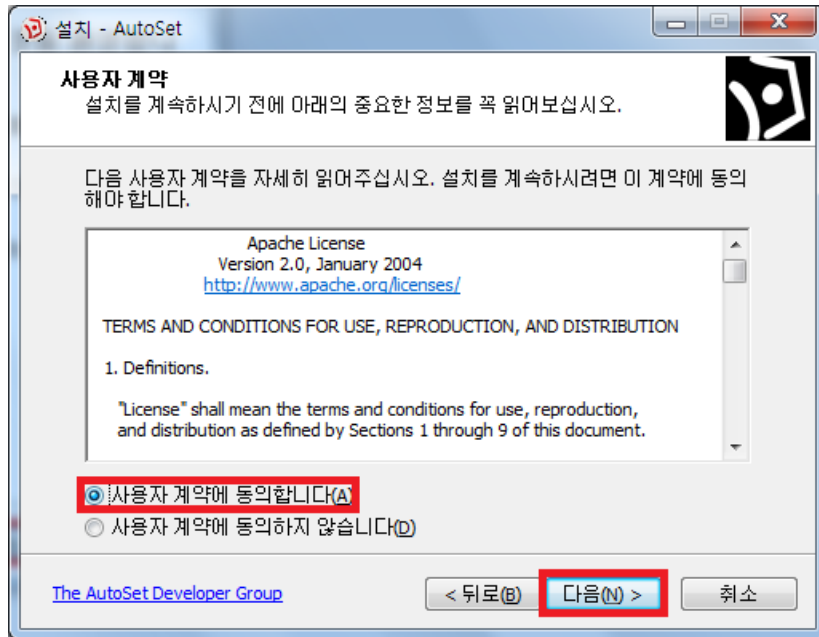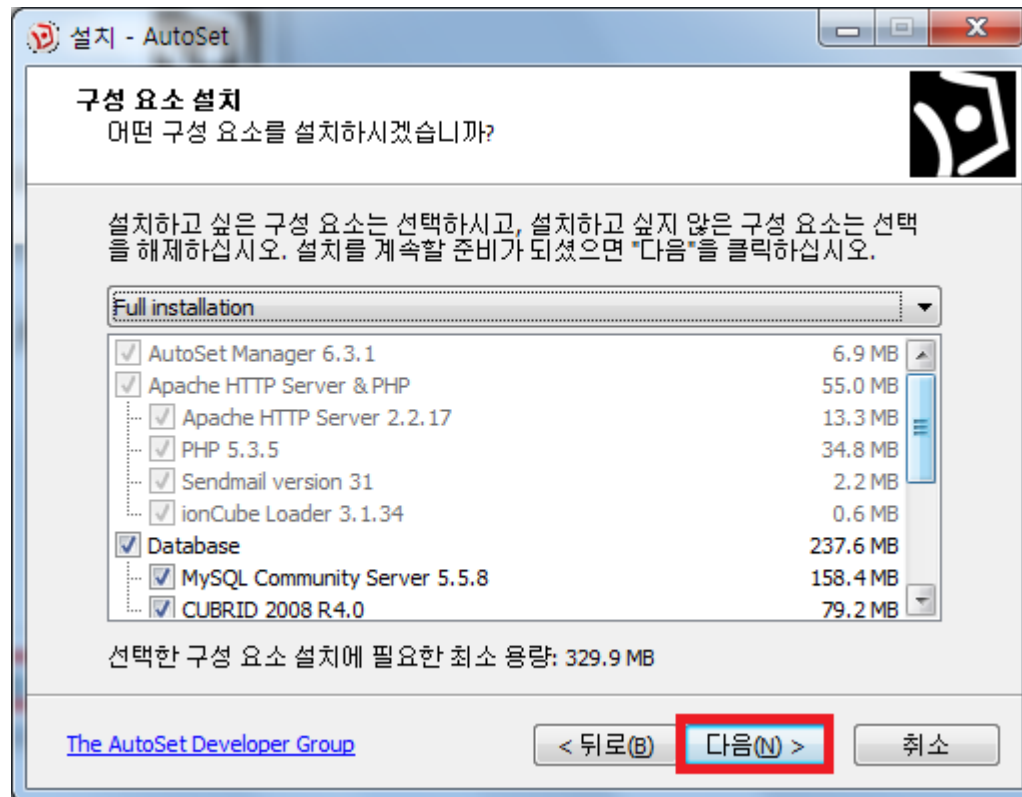
AUTOSET 설치(P40~46)
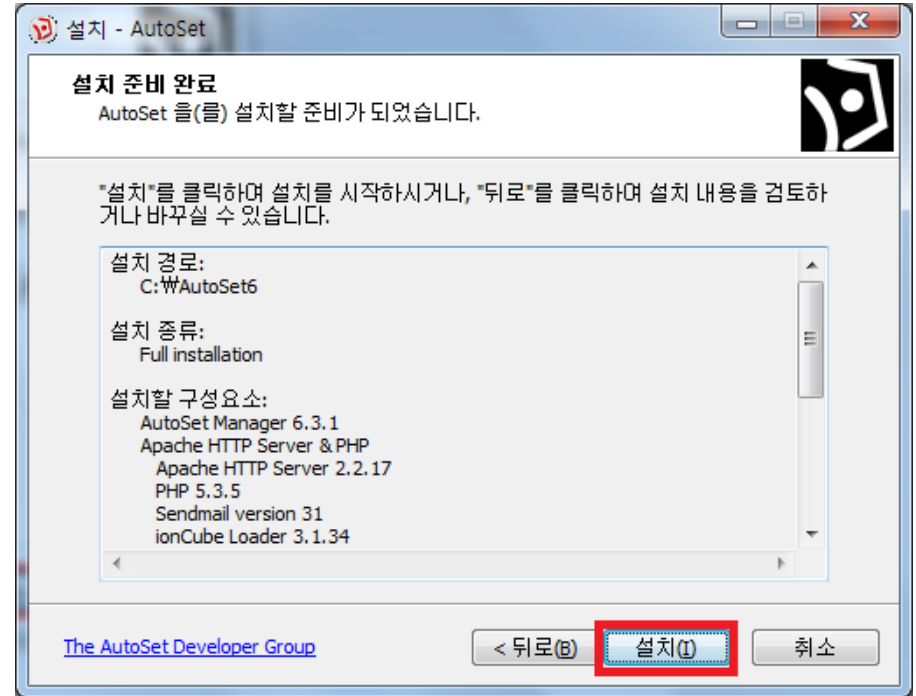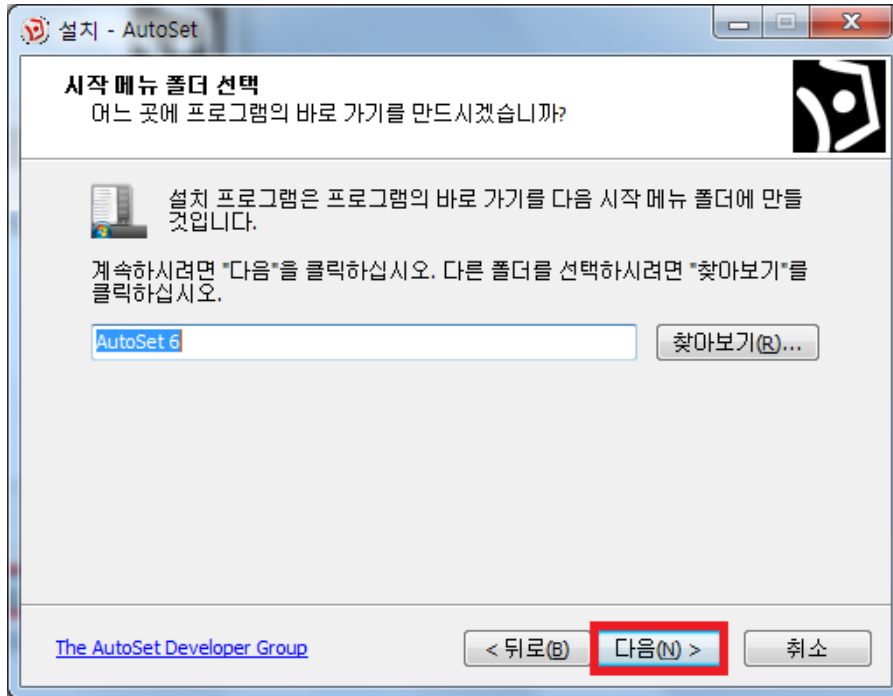
AUTOSET 설치(P40~46)
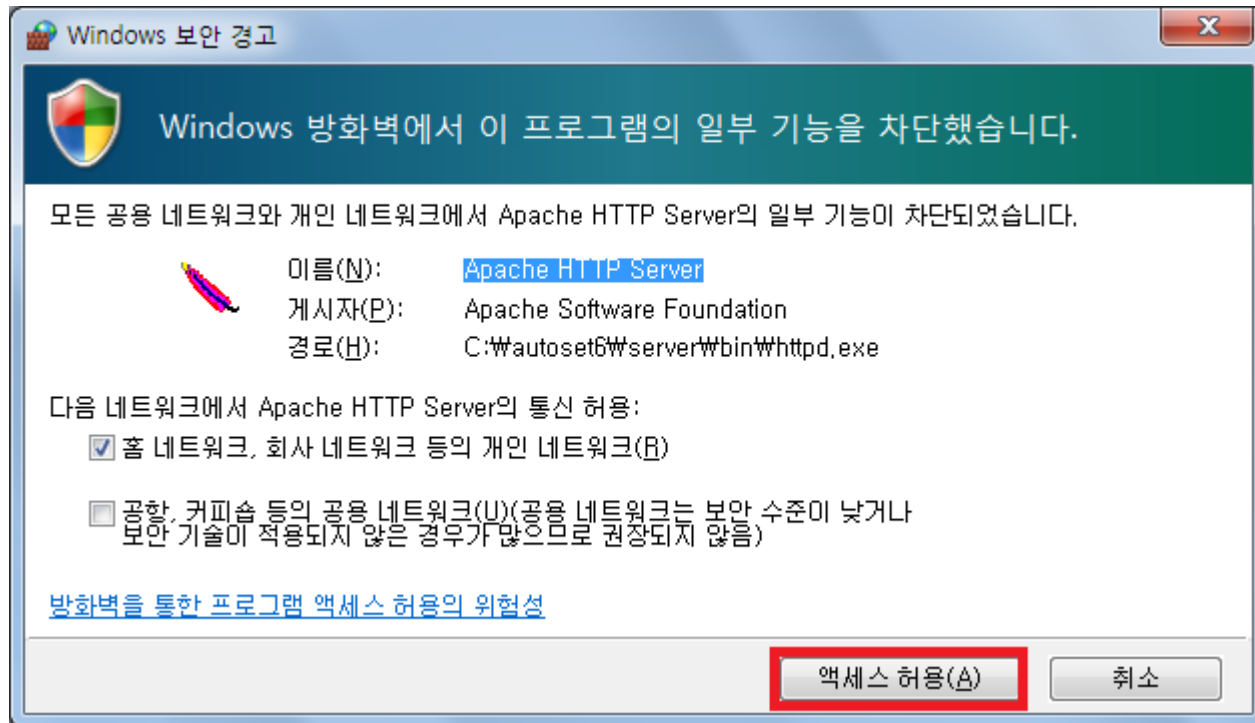
AUTOSET 설치(P40~46)
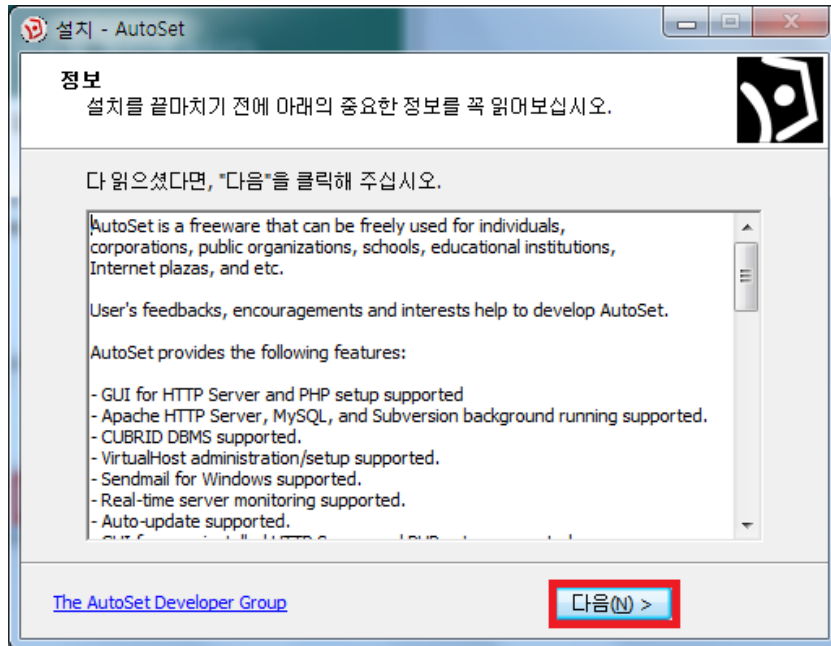
AUTOSET 설치(P40~46)

AUTOSET 설치(P40~46) : 에러발생
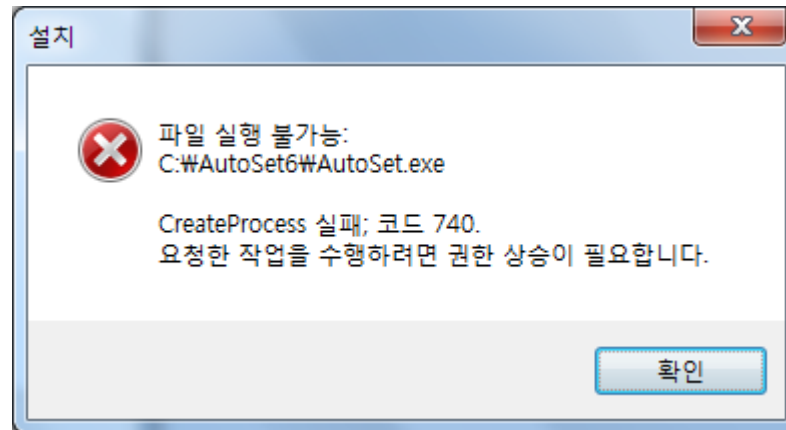
AUTOSET 설치(P40~46) : 에러해결
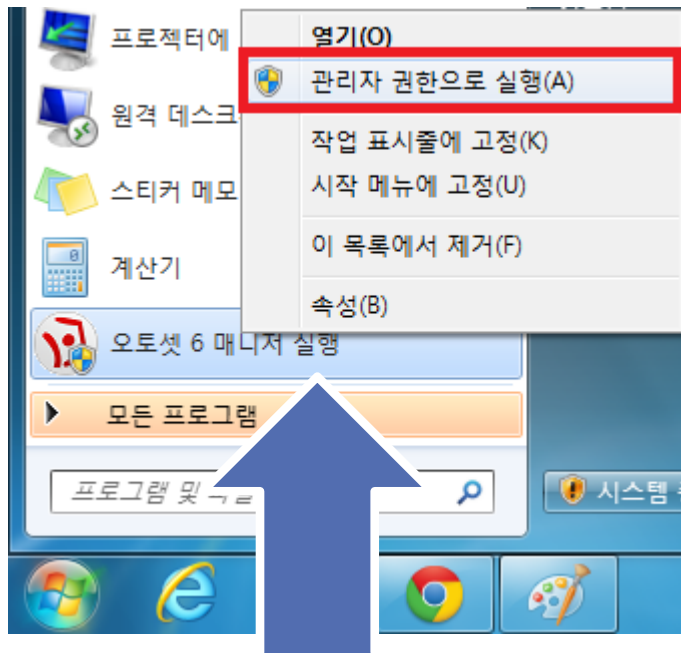
마우스 오른쪽 클릭
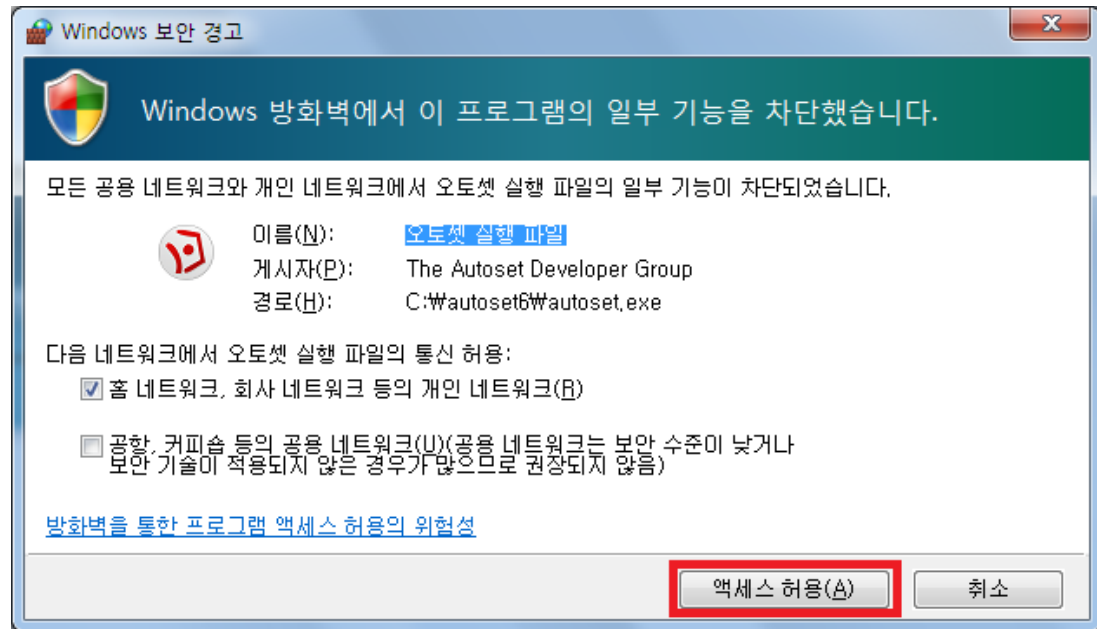
AUTOSET 설치(P40~46) : 확인

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AUTOSET 설치(P40~46) : 서버 기동
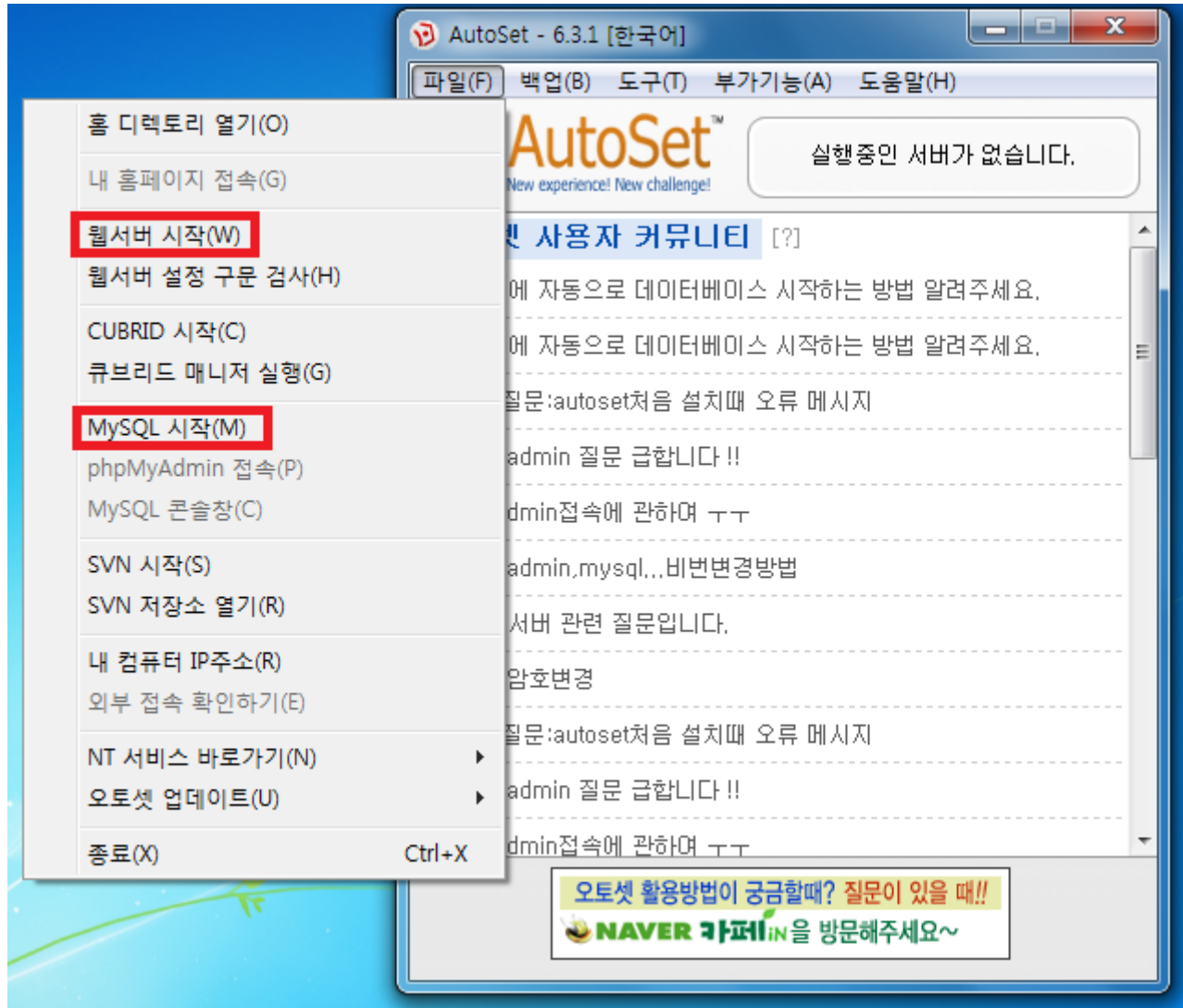
AUTOSET 설치(P40~46) : 서버 기동 에러
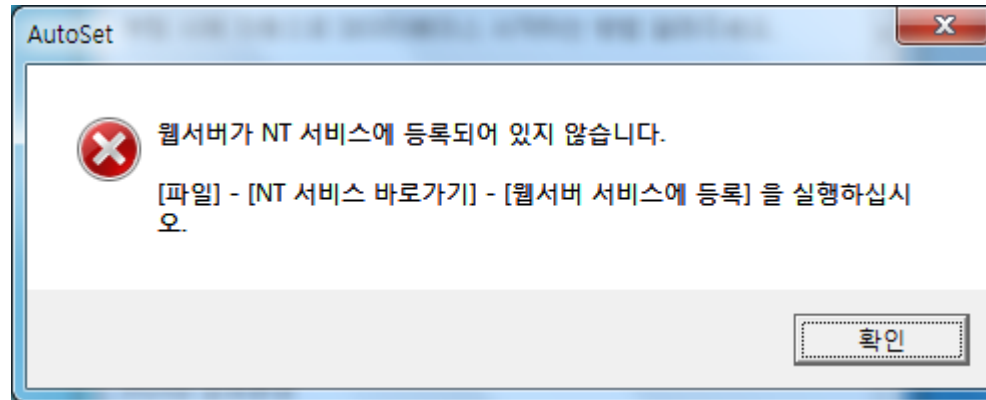
AUTOSET 설치(P40~46) : 서버 기동 에러 해결

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AUTOSET 설치(P40~46) : 기동 확인

http://localhost

AUTOSET 설치(P40~46) : 설정 확인

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DESYEDIT

좋은 에디터? (P.48)

- **찾기와 찾아서 바꾸기 기능이 있는 에디터**
  - 정규표현식을 지원하면 Very Good!
- **구문강조기능(Highlighting)이 있는 에디터**
- **FTP 연결을 통한 원격 파일 생성 및 수정 기능이 있는 에디터**
  - 일반적으로 보안 ftp(sftp)는 상용버전
  - 또한 cvs, subversion, git 등의 버전관리 서비스의 클라이언트 기능이 지원 되면 Very Good!
- **실행취소와 다시 실행이 자유로운 에디터**
- **소스 앞에 몇 번째 줄인지 표시가 되는 에디터**
- **무료로 배포되는 에디터**

한림대학교 웹데이터베이스 – 이윤환

DESYEDIT 설치

http://www.desyedit.com

DESYEDIT 설치

한림대학교 웹데이터베이스 – 이윤환

DESYEDIT 설치

DESYEDIT 설치

DESYEDIT 설치

DESYEDIT 설치

한림대학교 웹데이터베이스 – 이윤환

DESYEDIT 설치

실습 – 첫번째 PHP 파일 만들기

1. 다음을 c:₩Autoset6₩public_html 에 hello.php로 저장하시오.

```php
<!DOCTYPE html>
<html>
<head>
<?php
$title = "Hello, PHP!";
?>
  <title><?php echo $title;?></title>
</head>
<body>
  <h1><?php echo $title;?></title>
</body>
</html>
```

2. Web Browser를 열고 다음과 같이 입력하시오.
   http://localhost/hello.php

3. Web Browser에서 소스보기를 실시하고 1에서 입력한 소스 코드와 무엇이 달라졌는지 확인해 보시오.

PHP

1 : Computer   ?

2 :   ?

3 : 0 1   ?

-
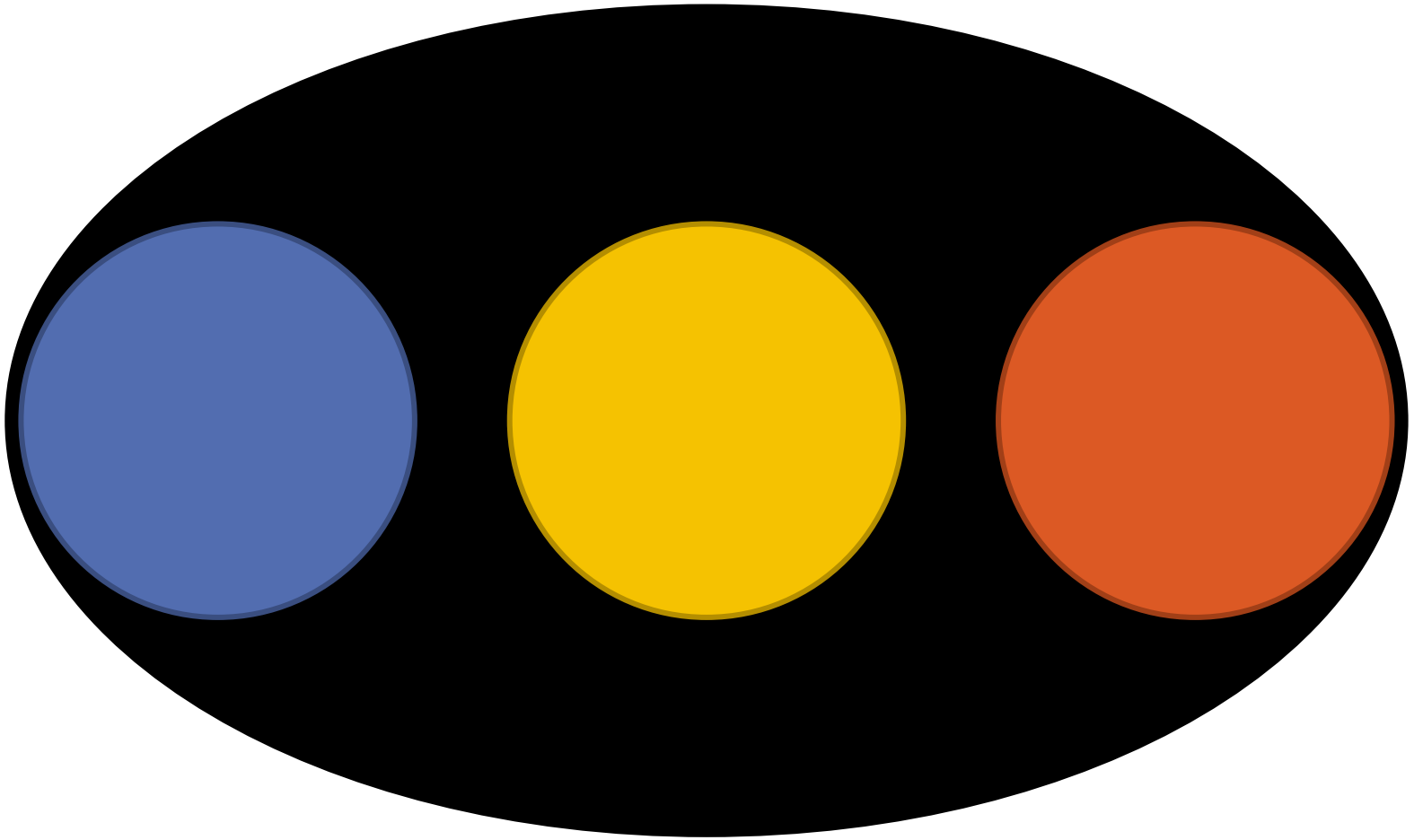
```
00004d0 0000 0000 ffff ffff 0000 0000 ffff ffff
00004e0 0000 0000 0000 0000 940c 0804 0000 0000
00004f0 0000 0000 825a 0804 0000 0000 4700 4343
0000500 203a 4728 554e 2029 2e33 2e32 2033 3032
0000510 3330 3530 3230 2820 6552 2064 6148 2074
0000520 694c 756e 2078 2e33 2e32 2d33 3335 0029
0000530 4700 4343 203a 4728 554e 2029 2e33 2e32
0000540 2033 3032 3330 3530 3230 2820 6552 2064
0000550 6148 2074 694c 756e 2078 2e33 2e32 2d33
0000560 3335 0029 4700 4343 203a 4728 554e 2029
0000570 2e33 2e32 2033 3032 3330 3530 3230 2820
```

```asm
        .file   "a.c"
        .text
.globl main
        .type   main,@function
main:
        pushl   %ebp
        movl    %esp, %ebp
        subl    $8, %esp
        andl    $-16, %esp
        movl    $0, %eax
        subl    %eax, %esp
        movl    $0, %eax
        leave
        ret
.Lfe1:
```

```c
#include <stdio.h>

int main() {
        printf "Hello, World!";
        return 0

}
```

PHP

Server
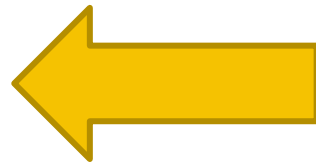
http://localhost

hello.html

```
<!DOCTYPE html>
<html>
  <head>
    <title>Hello, PHP</title>
  </head>
  <body>
    <h1>Hello, PHP</title>
  </body>
</html>
```

http://localhost/hello.html

-

PHP

http://localhost/hello.php
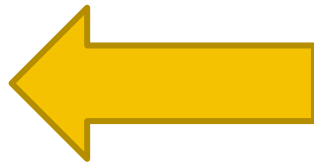
```html
<!DOCTYPE html>
<html>
<?php
$title = "Hello, PHP";
?>
  <head>
    <title><?php echo $title;?></title>
  </head>
  <body>
    <h1><?php echo $title;?></title>
  </body>
</html>
```

PHP
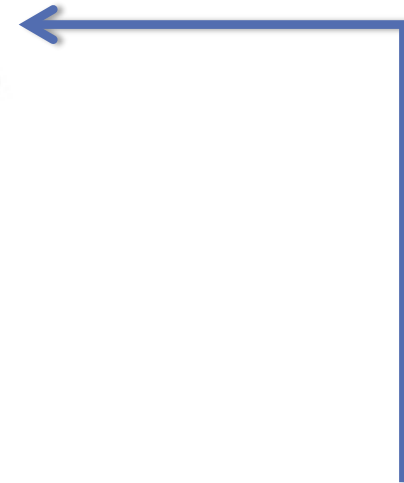
1. <!DOCTYPE html>
   <html>
2. <head>
3. <?php
4. $title = "Hello, PHP!";
5. ?>
6.   <title><?php echo $title;?></title>
7. </head>
8. <body>
9.   <h1><?php echo $title;?></title>
10. </body>
11. </html>

1. PHP 문법 검사
2. PHP 번역
3. 웹 서버에 전달

-
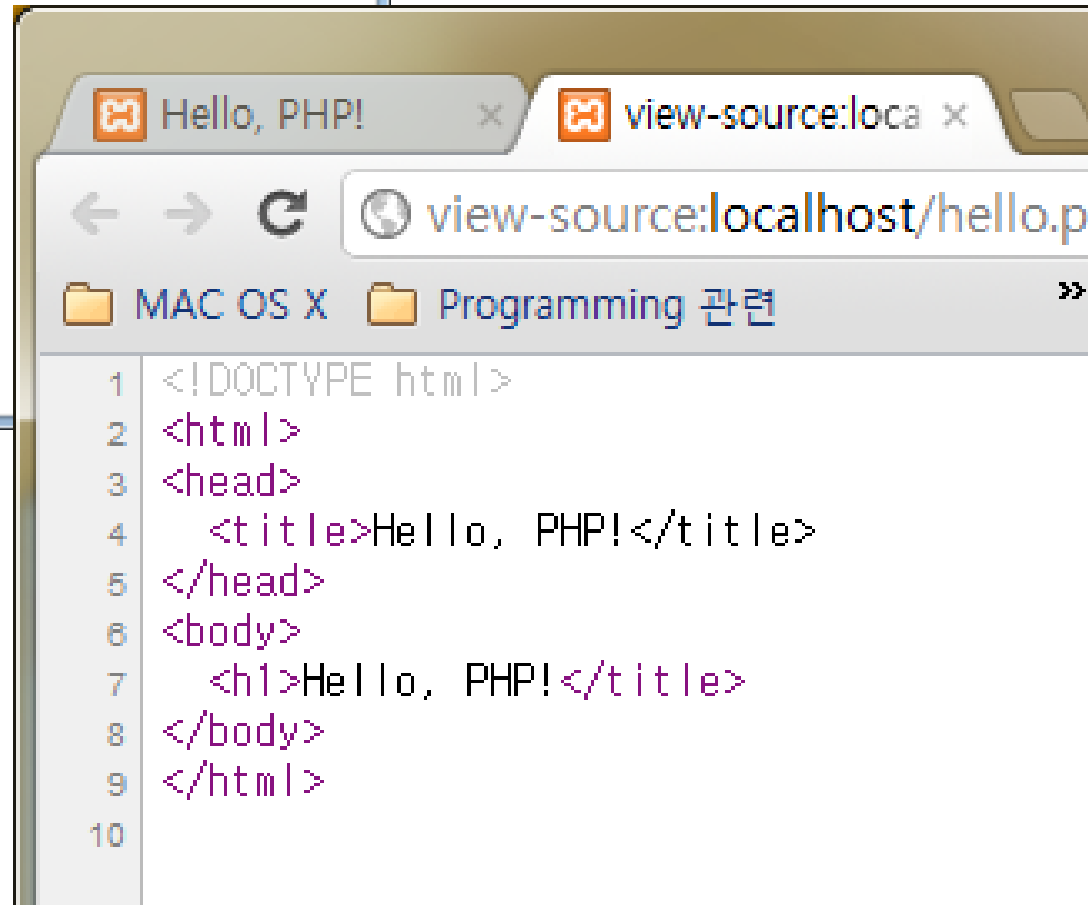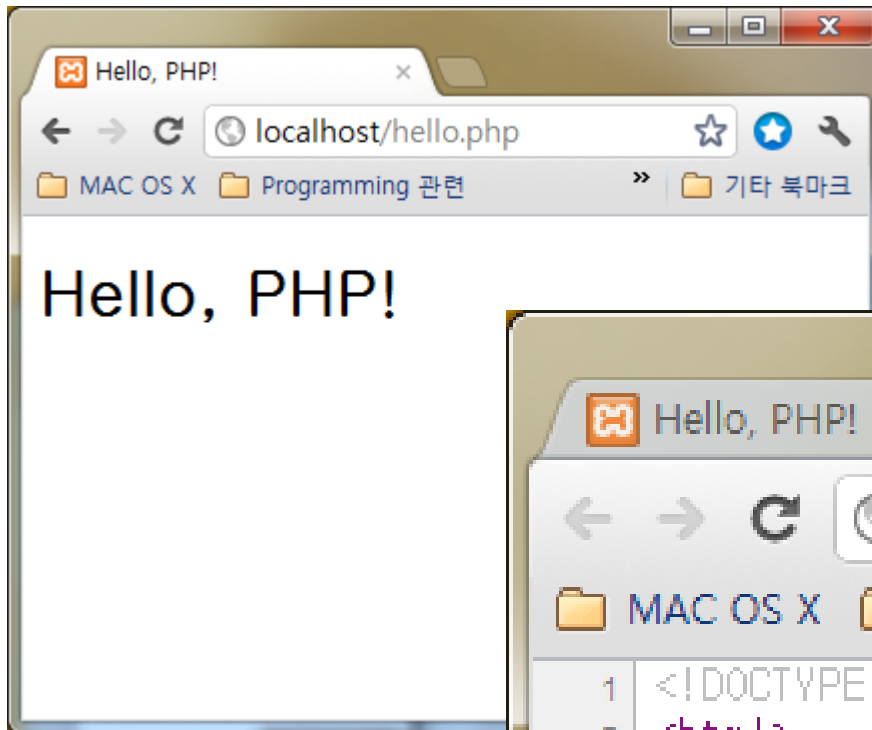
PHP

PHP   HTML   .

- HTML   PHP

  .

-                            3-5

  . (3, 5   )

- $title="Hello, PHP";

-

Browser window 1 (localhost/hello_php_tag.php):

```
$title = "Hello, PHP!";
```

Browser window 2 (view-source:localhost/hello...):

```
1   <!DOCTYPE html>
2   <html>
3   <head>
4   $title = "Hello, PHP!";
5     <title></title>
6   </head>
7   <body>
8     <h1></title>
9   </body>
10  </html>
11
```

PHP

PHP　　HTML　　　　　　（p.66~）

<?php	?>	
<script language="php">	</script>	HTML
<%	% >	ASP -

-

PHP —

- PHP .
- (;)

    .

- .

- PHP .
- /

    .

- : /* ... */
- : //

-

PHP   –

: sep_cmnt.php

```php
1  <?php
2  /* -----------------------------
3  우리의 첫번째 예제 파일입니다.
4  ----------------------------- */
5  ?>
6  <!DOCTYPE html>
7  <html>
8  <head>
9  <?php
10 $title = "Hello, PHP!"; // $ 표시는 변수명 앞에 붙힙니다.
11 ?>
12   <title><?php echo $title;?></title>
13 </head>
14 <body>
15   <h1><?php echo $title;?></title>
16 </body>
17 </html>
```

-

PHP　　　　　–　　　(P.74)

: error.php

```php
1  <?php
2  /* --------------------------------
3  에러를 보기 위한 예제 파일입니다.
4  --------------------------- */
5  ?>
6  <!DOCTYPE html>
7  <html>
8  <head>
9  <?php
10 $title = "Hello, PHP!"
11 $subtitle = "Hallym University.";
12 ?>
13   <title><?php echo $title;?></title>
14 </head>
15 <body>
16   <h1><?php echo $title;?></title>
17 </body>
18 </html>
```

-
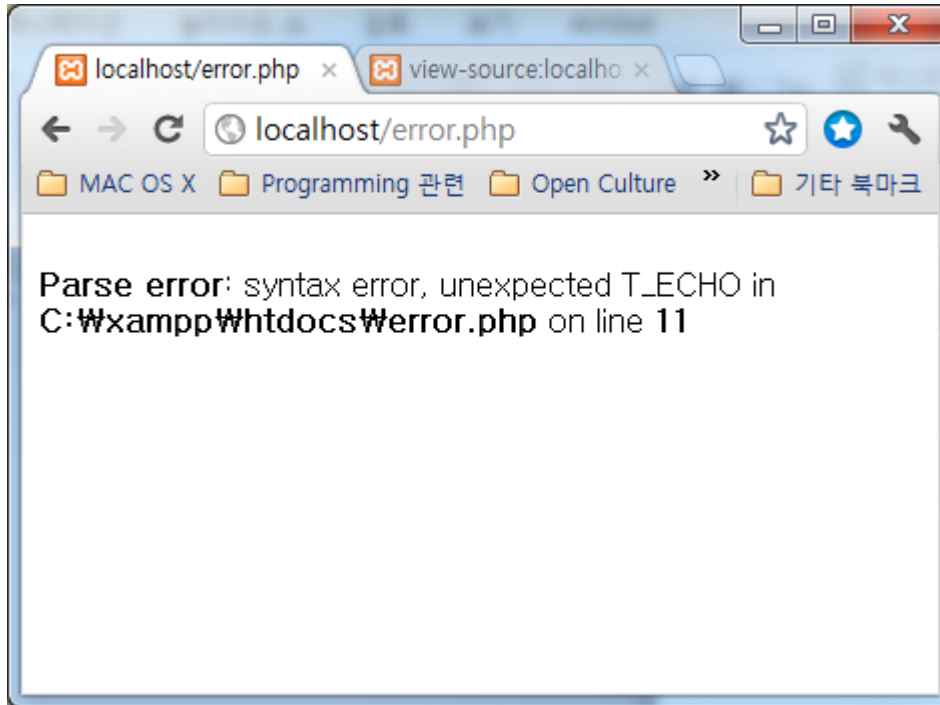
Parse error:
  PHP

syntax error,
  PHP   .

unexpected T_ECHO
                    PHP

…
on line 11

-

(identifier)

- .
- .
  - .
- ?
  - .
  - .

-

PHP   -

1.   (_)   .
2.   ,   ,   .
3.   .
4.   (   )   .
5.   .

         PHP   .
         PHP

                                    .

                         -

PHP

PHP

-
  -
    - : $ (Ex. $title)
      - '$'
      .

(Type)

- (   )
-
  '   '   '   '   '   '   '   '
  (NULL) 8 .

-

PHP -

(boolean)

- (true) (false)
  .

- 0 , 0

-
  - $condition = true;
  - $condition = false;
  - $condition = 1;   // or ?

-

PHP -

(Integer)

- .

-

  - $times = 1;
  - $minus = -1;
  - $octal = 0123;
  - $hex = 0x12;

(floating point numbers)

-

-

  - $pi = 3.1415927
  - $interest = 1.0e-3

-

PHP -

(String)

- .
-
    - (") :
    - (')
    -
        - ,
        .
        - " <<<"
        ,
        .
    - (PHP 5.3.0   )
    -
    ,   .

-

PHP -

-
  - $str1 = " (\ ") .";
  - $str2 = ' (\ ') .';
  - $times = 2;
  - $str3 = "3 $times 6 .";
  - $str4 = '3 $times 6 .';
  - $hereDoc = <<< EOD

    .

    EOD;
  - $nowDoc = <<< 'EOT'

    .

    'EOT';

-

PHP

(RESOURCE)

-

.

NULL

-

.

-

NULL

unset NULL

.

-

PHP

-
  - $
  - (Predefined)
    -
    - $_ENV['OS']
-
  - HTML .
  - .

-

PHP   _

-            (   )   .
-               (=)   .
  - `$a = 123;`   //
  - `$b = "string";`   //
  - `$c = true;`   //
-

                        .

  - `echo $a;`   // $a   123
  - `echo $b;`   // $b   "string"
  - `echo $c;`   // $c   true

-

PHP   -

-

  .

- true false ?

PHP

- define() .
  - bool define (string name, mixed value [,bool case_insensitive])
- PHP $.
  - constants() .
  - mixed constant (string name)

-

PHP   – PHP

PHP   .

- .

- PHP Manual

- http://www.php.net/manual/en/

–

PHP   – PHP

PHP   – PHP

Category

PHP　　　　　– PHP

bool **define** (string *$name* , mixed *$value* [, bool *$case_insensitive* = *false*])

-
- '
  []

  =

- ,

-

-

PHP – PHP
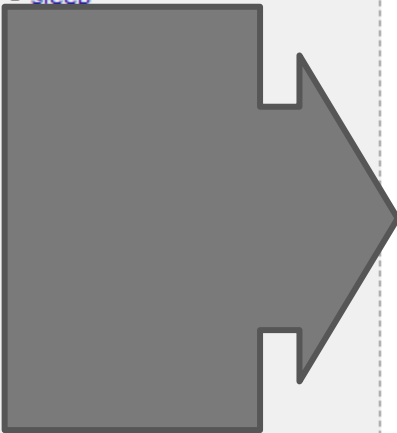
⊟ Parameters

Report a bug

name

The name of the constant.

value

The value of the constant; only scalar and null values are allowed. Scalar values are integer, float, string or boolean values. It is possible to define resource constants, however it is not recommended and may cause unpredictable behavior.

case_insensitive

If set to TRUE, the constant will be defined case-insensitive. The default behavior is case-sensitive; i.e. **CONSTANT** and **Constant** represent different values.

Note:

Case-insensitive constants are stored as lower-case.

PHP 常量 – PHP 常量
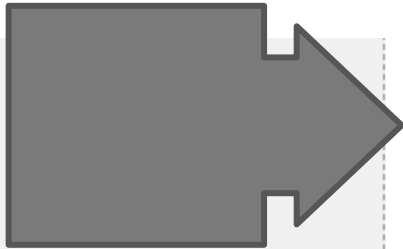
□ **Return Values**   Report a bug

Returns **TRUE** on success or **FALSE** on failure.

□ **Examples**   Report a bug

Example #1 Defining Constants

```php
<?php
define("CONSTANT", "Hello world.");
echo CONSTANT; // outputs "Hello world."
echo Constant; // outputs "Constant" and issues a notice.

define("GREETING", "Hello you.", true);
echo GREETING; // outputs "Hello you."
echo Greeting; // outputs "Hello you."

?>
```

PHP – PHP

PHP   -

.

– op1.php

			($a=5, $b=3)	
	+		$a + $b	8
	-		$a - $b	2
	*		$a * $b	15
	/		$a / $b	?
	%		$a % $b	2
	-		-$a	-5

-

PHP -

： （ op2.php ）

		($a=5, $b=3)	
==	( )	$a == $b	FALSE
===	( )	$a === $b	FALSE
<		$a < $b	FALSE
>		$a > $b	TRUE
<=		$a <= $b	FALSE
>=		$a >= $b	TRUE
!=		$a != $b	TRUE
<>		$a <> $b	TRUE

-

PHP -

(op3.php)

		($a=T, $b=F)	
&& (and)	( )	$a && $b	FALSE
|| (or)	( )	$a || $b	TRUE
xor	( )	$a xor $b	TRUE
!	, ( )	!$a	FALSE

- +=

  - $a += 2;   // $a = $a + 2;

-

PHP   -

- : .(period,)
  - .
  - "Hello, " . "World!" **è** Hello, World!
- : ( )?( ) : ( )
  - Boolean
    .
    .
  - 5<3 ? printf("TRUE") : printf("FALSE");
- : @
- : new, ->

-

.

–

PHP

(function)

- 　　　　　　　　　　.

- 　　　　　　 ,　　　　　 ,　　　　 ,　　　　　　　　　　　 .

- 　　　　　　　　　　　　　　　　　　 .

　　　　　　　　　　　　　　　　 .

```
function          (                    ) {

        return
}  //



              (                )
```

-

```php
<?php
//fn_ex.php
function mySum($x, $y) {
  $sum = $x + $y;
  return $sum;
}


$a = 3;
$b = 5;

echo "$a    $b         " . mySum($a, $b) . "<br>";
echo gettype(mySum($a, $b));
?>
```

$a
3

$b
5

-

- Passed by reference

  -

  " &"   .

  - Example : cbr.php

-
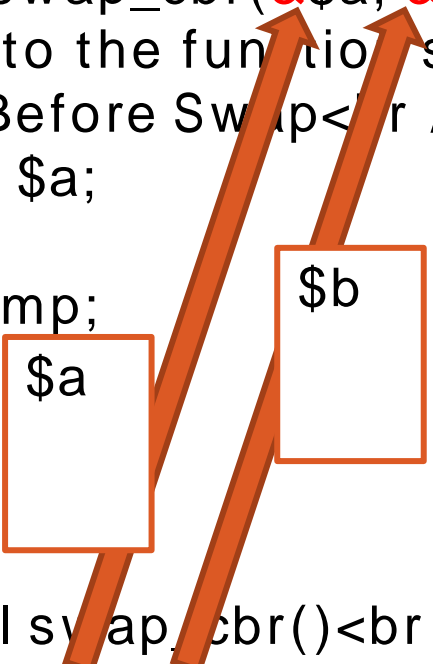
```php
function swap_cbr(&$a, &$b) {
  echo "Into the function swap_cbr<br />";
  printf("Before Swap<br /> \ $a = % s, \ $b = % s<br />", $a, $b);
  $temp = $a;
  $a = $b;
  $b = $temp;
}

$a = 3;
$b = 5;
echo "Call swap_cbr()<br />";
swap_cbr($a, $b);
printf("After Swap<br /> \ $a = % s, \ $b = % s<br />", $a, $b);
```

$a

$b

-

-
  -
    .
  - $=$ " "
    .
  - Example : dparam.php

-

```php
function makeyogurt ($type = "acidophilus", $flavour) {
    return "Making a bowl of $type $flavour.\ n";
}

@ printf("% s", makeyogurt ("raspberry"));

function makeyogurt2 ($flavour, $type = "acidophilus"){
    return "Making a bowl of $type $flavour.\ n";
}

echo "<br />";
echo makeyogurt2 ("raspberry","aaaaa");
```

- global 변수, $GLOBALS["변수명"]
- Example : globals.php

- static 변수
- Example : static.php

Local

Global

PHP –

-
  -
  - : $ (Ex. $title)
    - '$'
      .

(Type)

- (   )
-
  ,   ,   ,   ,   ,   ,   ,
  (NULL)   8   .

-

2   !

```php
<?php
// 2dan.php
echo "2 * 2 = ", 2* 2, "<br />\ n";
echo "2 * 3 = ", 2* 3, "<br />\ n";
echo "2 * 4 = ", 2* 4, "<br />\ n";
echo "2 * 5 = ", 2* 5, "<br />\ n";
echo "2 * 6 = ", 2* 6, "<br />\ n";
echo "2 * 7 = ", 2* 7, "<br />\ n";
echo "2 * 8 = ", 2* 8, "<br />\ n";
echo "2 * 9 = ", 2* 9, "<br />\ n";
?>
```



```
2 * 2 = 4
2 * 3 = 6
2 * 4 = 8
2 * 5 = 10
2 * 6 = 12
2 * 7 = 14
2 * 8 = 16
2 * 9 = 18
```
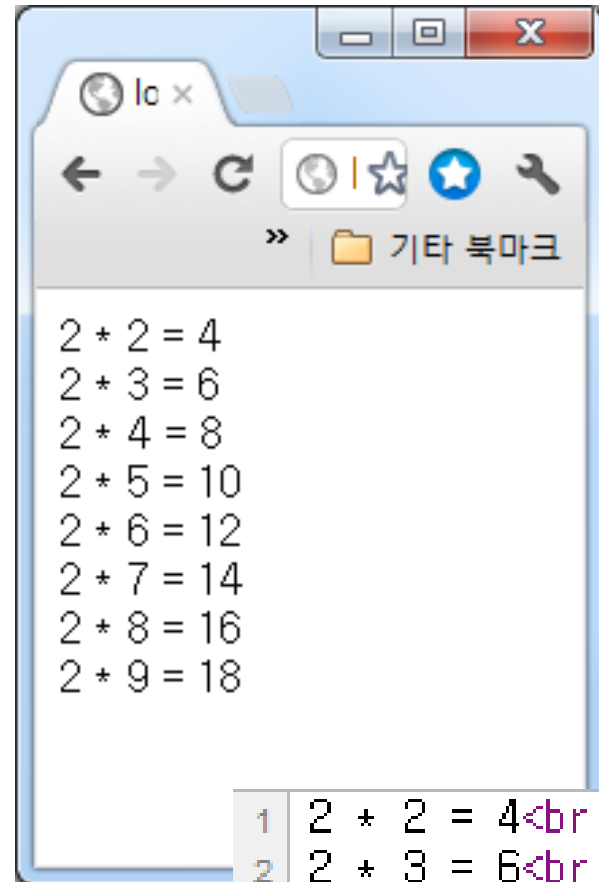
```
1  2 * 2 = 4<br />
2  2 * 3 = 6<br />
3  2 * 4 = 8<br />
4  2 * 5 = 10<br />
5  2 * 6 = 12<br />
6  2 * 7 = 14<br />
7  2 * 8 = 16<br />
8  2 * 9 = 18<br />
9
```

(LOOP)

for :

- for

  .

- for   Loop
  for

                    .   (   )

          Loop   .

<div style="background:#ccffff; padding:10px;">

for(초기식 **;** 조건식 **;** 증감식 **)** {

        Code Block

}

</div>

-

for 반복문 - 구구단 2단 출력

```php
<?php
// 2dan-for.php
for($i = 2; $i < 10; $i++) {
  echo "2 * $i = ", 2*$i, "<br />\ n";
}
?>
```

```
2 * 2 = 4
2 * 3 = 6
2 * 4 = 8
2 * 5 = 10
2 * 6 = 12
2 * 7 = 14
2 * 8 = 16
2 * 9 = 18
```

```
1  2 * 2 = 4<br />
2  2 * 3 = 6<br />
3  2 * 4 = 8<br />
4  2 * 5 = 10<br />
5  2 * 6 = 12<br />
6  2 * 7 = 14<br />
7  2 * 8 = 16<br />
8  2 * 9 = 18<br />
9
```

for
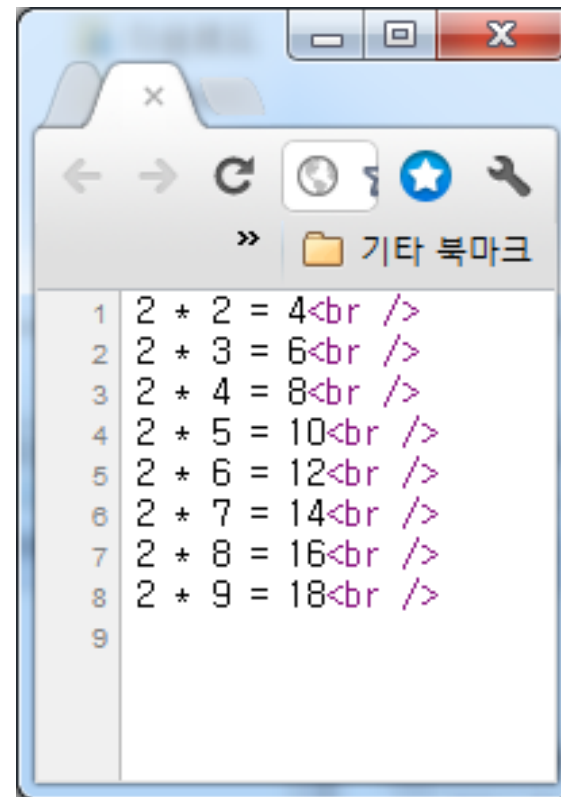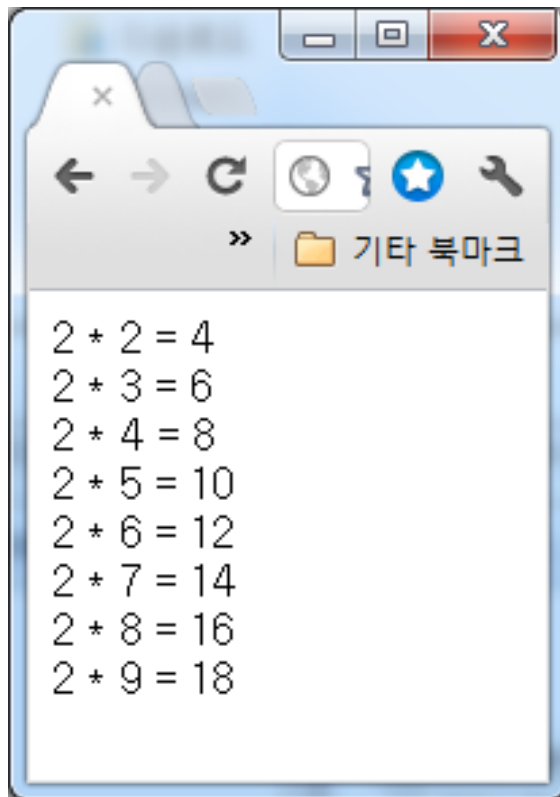
```php
<?php
// googoo.php
 for($i = 2; $i < 10; $i++) {
  echo "${i}    =====================" . "<br />\ n";
   for($j = 1; $j < 10; $j++) {
     echo "$i * $j = ", $i* $j, "<br />\ n";
   }
}
?>
```
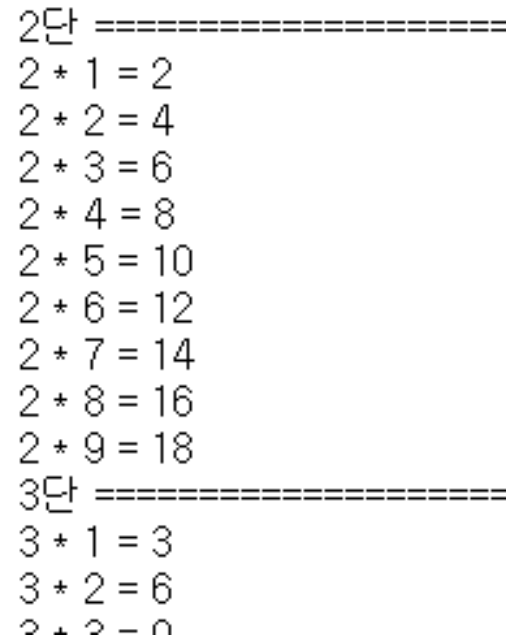
```
2단 ===================
2 * 1 = 2
2 * 2 = 4
2 * 3 = 6
2 * 4 = 8
2 * 5 = 10
2 * 6 = 12
2 * 7 = 14
2 * 8 = 16
2 * 9 = 18
3단 ===================
3 * 1 = 3
3 * 2 = 6
3 * 3 = 9
```

-

– while

- while

  .

-

  false .

- while Loop

```
while(조건식) {

        Code Block

}
```

-

while

```php
<?php
//googoo-while.php
$i=2;
while($i < 10) {
  echo "${i}    ======================" . "<br />\ n";
  $j = 2;
  while($j < 10) {
      echo "$i * $j = ", $i* $j, "<br />\ n";
      $j++;
  }
  $i++;
}
?>
```

-

- if

- if

  .

- if   . (else if   )

```
If (조건) {

                              Code Block

} else {

                              Code Block

}
```

-

2

```php
<?php
// 2dan-for-if.php
for($i = 2; $i < 10; $i++) {
  if($i % 2 == 1) {
      echo "2 * $i = ", 2* $i, "<br />\ n";
  } else {
      echo "                     ." . "<br />\ n";
  }
}
?>
```
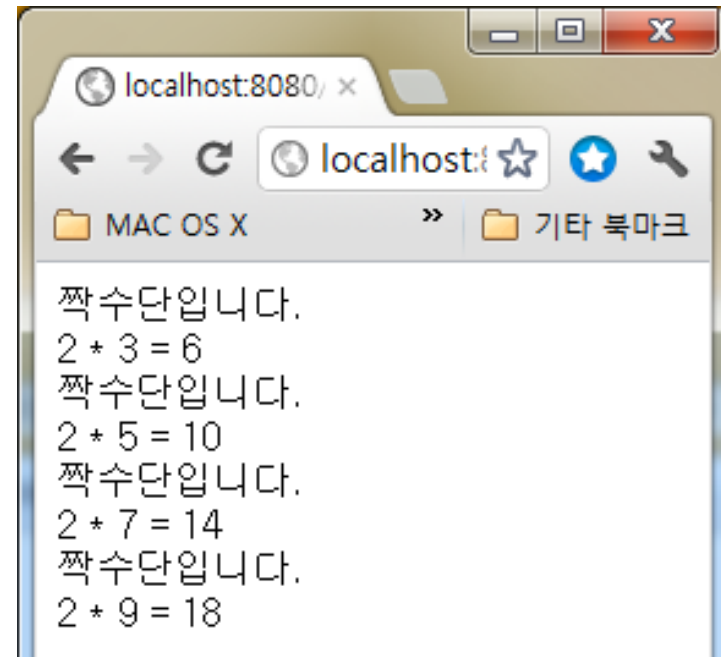
```php
<?php
// 2dan-for-if-2.php
for($i = 2; $i < 10; $i++) {
  if($i % 2 == 1) {
      echo "2 * $i = ", 2* $i, "<br />\ n";
  } else if($i % 3 == 0) {
      echo "          3          " . "2 * $i = " , 2* $i ,
          "<br />\ n";
  } else {
      echo "          3
                  ." . "<br />\ n";
  }
}
?>
```

switch

- switch

    .

- if   if

                        .

```
switch (      ) {
        case        1:
                    ;
                break;
                …
        default :
                    ;
                break;
}
```

-

2

```php
<?php
// 2dan-for-switch.php
for($i = 2; $i < 10; $i++) {
    $times = $i * 2;
    switch($times % 3) {
        case 0 :
            echo "[0] :" . "2 * $i = ", 2* $i, "<br />\ n";
            break;
        case 1 :
            echo "[1] :" . "2 * $i = ", 2* $i, "<br />\ n";
            break;
        default :
            echo "[2] :" . "2 * $i = ", 2* $i, "<br />\ n";
            break;
    }
}
?>
```

loop : do ~ while

-
  ```
  do {



  } while (    )
  ```

- while

-

.

-

- Ex. other_loop.php

```php
<?php
$howMany = 5;
$myMineral = 50;
echo "SCV                 .<br />\ n";
$i = 1;
do {
    echo $i . "      SCV                    .<br />\ n";
    $myMineral -= 50;
    $i++;
} while ($myMineral >= 50 )
?>
```

-

foreach

-

```
foreach (        as                    ) {


}
foreach (        as                    =>                    ) {


}
```

-     (   )

-     (   )

-

```php
<?php
$arr = array("one", "two", "three");
reset($arr);
foreach ($arr as $value) {
  echo "Value: $value<br />\ n";
}
$arr = array("one", "two", "three");
reset($arr);
foreach ($arr as $key => $value) {
  echo "Key: $key; Value: $value<br />\ n";
}
$arr = array("one" =>1, "two" =>2, "three" =>3);
reset($arr);
foreach ($arr as $key => $value) {
  echo "Key: $key; Value: $value<br />\ n";
}
?>
```

-

HTML Form

HTML FORM

FORM

- HTML
  - <FORM>…</FORM>
-
- Form

```
<FORM NAME="          "
    ACTION="                   "
    METHOD="          "
    ENCTYPE="            ">
        FORM
</FORM>
```

-

FORM

Form   .

- NAME : HTML
- ACTION
    - •   .
    - •   PHP
                                        .
- METHOD
    - •
    - • POST   GET   .
        - • POST : HTTP   (Body)   .
        - • GET : URL   .
- ENCTYPE
    - •   (encoding)   .
    - •   POST   .
    - • application/x-www-form-urlencoded   multipart/form-data   .

-

FORM: GET VS. POST

GET　　　: URL　　　　（　　　　　　　）

- 　　　　　　　　　　　　（?）　　　　　　　　　　"?　　　　=　　　　　　"　　　　　　　　　　.
  - ex: /index.php?name=brown
- 　　　　　　　　　　　　　　　　　　　　　&　　　　　　　　　　　　.
  - ex: ?name=brown&homepage=http://ezphp.net

POST　　　　: REQUEST BODY

- 　　　　　　　　　　　.
  - PHP　　　　　　POST　　　　　　　　.
  - php.ini　　　　　max_post_size　　　　　　.

　　　　　　　　-

FORM : <INPUT>

TYPE	설명
TEXT	일반 텍스트 입력 상자
PASSWORD	비밀번호 입력 상자
FILE	파일 선택 상자
CHECKBOX	체크 상자
RADIO	라디오 버튼
BUTTON	일반 버튼
SUBMIT	쿼리 전송 버튼
RESET	초기화 버튼
IMAGE	이미지 버튼
HIDDEN	숨겨진 필드

-

FORM : <INPUT>

Text Type

- Text (255).
- <INPUT **TYPE**="text" **NAME**="email" **VALUE**="id@ domain" **SIZE**="40" **MAXLENGTH**="50">
  - NAME : Form (PHP File .)
  - VALUE :
  - MAXLENGTH :
  - SIZE :

PASSWORD

- Text * * * .
- Example : inputPwd.html

-

FORM : <INPUT>

HIDDEN

- Browser

  .

- Source

  .

SUBMIT

- Form

  .

RESET

- Form

  .

FORM : <INPUT>

RADIO

- .

    <INPUT TYPE="RADIO" NAME="gender" VALUE="M" checked>

    <INPUT TYPE="RADIO" NAME="gender" VALUE="F">

- checked : .

- NAME

  Group

  VALUE .

- Example : inputRadio.html

  -

FORM : <INPUT>

CHECKBOX

- .

  <INPUT TYPE="CHECKBOX" NAME="check1"
  VALUE="win98" checked> win98

  <INPUT TYPE="CHECKBOX" NAME="check2"
  VALUE="win2k"> win2k

- NAME

  .

  - Checkbox

                                                    ?

  - .

  - Example : check-from.php, check.php

                                  -

FORM : <TEXTAREA>

TEXTAREA

- Text .

    <TEXTAREA NAME="comment" ROWS="4" COLS="30" >   </TEXTAREA>

  - ROWS : Text
  - COLS : Text
  - Example : inputTextArea.html

-

FORM : <SELECT>

SELECT

- .

- <option> .

- value

```
<select name="age">
  <option value="10">10 - 20      </option>
  <option value="20" selected>21 - 30
  </option>
</select>
```

- SELECTED :

- Example : inputSelect.html

-

"   "

- PHP   .
  - PHP   .

-   .

  -   .

```php
<?php
    $a[0]="abc";
    $a[1] ="def";
    $b["foo"]=13;
?>
```

- " [   ]"   .

  - "   "
                          .

  - [0], [1]   .

-

-

- $array[O] = "Professional";

- $array[arr] = "Preprocessor";

- $array = array("Professional", "Hypertext", "Preprocessor");

- $array = array("first" => "Professional");

-         (Index   :   )
  -    : $fruit = array("   ", " ", "   ", "   ");
  -    : $fruit[O];
-         (Key   :   )
  -    : $phone = array("home" => "123-4567", "office" => "765-4321");
  -    : $phone["home"];
- Example : arrex.php

- array array ([mixed …])
- bool print_r (mixed expression [, bool return])
  - Example : print_r.php

-

http://www.php.net/manual/en/ref.array.php

:

- sort : .
  - bool sort (array &array [, int sort_flags])
  - sort_flags PHP4 .
    - SORT_REGLUAR : (
      .)
    - SORT_NUMERIC :
    - SORT_STRING :
  - Index .
- asort : .
  - bool asort (array &array [, int sort_flags])
  - Key key .(
)

-

- ksort : Key .
  - bool ksort (array &array [, int sort_flags])
  -

- Ex. sort.php
  - ?
  -

        .
        ```php
        <?php
        $arr = array("orange", "apple", "lemon");
        $arr2 = array("yellow"=>"lemon", "red"=>"apple",
                    "orange"=>"orange");
        print_r($arr);
        print_r(sort($arr));
        print_r($arr2);
        print_r(asort($arr2));
        print_r($arr2);
        print_r(ksort($arr2));
        ?>
        ```

-

- shuffle :   .
  - bool shuffle (array &array)
  -                                    PHP 4.2.0   srand()
    mt_srand()   4.2.0
                                       .

- array_reverse :   .
  - array array_reverse (array array [, bool preserve_keys])
    - preserve_key   TRUE   .
      -                0, 1, 2   array_reverse(, TRUE)
                                       2, 1, 0   .

- array_flip :   .
  - array array_flip (array trans)
  -

                                       .

                      -

- count :   .
  - int count (mixed var [, int mode])
  - http://www.php.net/manual/pt_BR/function.count.php
- array_keys :   .
  - array array_keys (array input [, mixed search_value])
  - http://www.php.net/manual/pt_BR/function.array-keys.php
- array_values :   .
  - array array_values (array input)
  - http://www.php.net/manual/pt_BR/function.array-values.php
- Ex. array_info.php

-

- current :   (   )
  - http://www.php.net/manual/pt_BR/function.current.php
- reset :   (   )
  - http://www.php.net/manual/pt_BR/function.reset.php
- end :
  - http://www.php.net/manual/pt_BR/function.end.php
- prev :

  - http://www.php.net/manual/pt_BR/function.prev.php
- next :

  - http://www.php.net/manual/pt_BR/function.next.php
- Ex. array_walking.php

-

( ) vs.

-
  -
  -
  -
-
  -
  -
  - (property) (method)

-

(Class)

- .
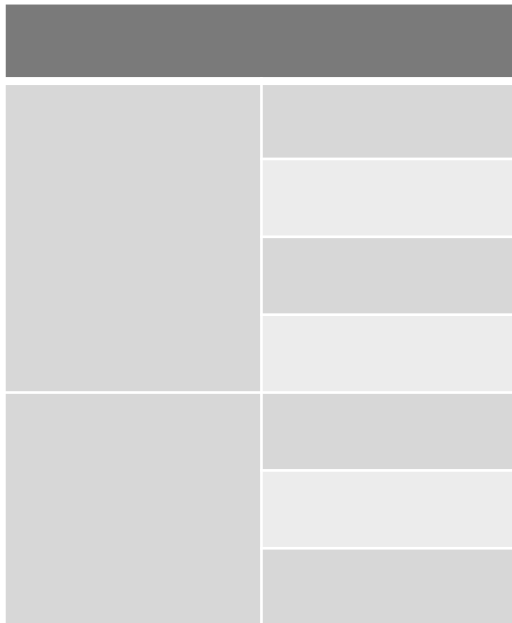
```php
class Human {
    public $Name;
    public $Age;
    public $Height;
    public $Weight;
    public function Eat ( $foods ) {
        echo "          ~          ". $foods . " <BR>";
    }
    public function Walk ( $destination ) {
        echo $destination . "                    .<BR>";
    }
    public function Talk ( $words ) {
        echo $words . " <BR>";
    }
}
```

-

-
  -
- (class   )
  -
  -
-
  -
  -
  -

-

(Constructor)

- class

-
  -
    - PHP5 __construct()
    -

```
function __construct($hname) {
    $this->Name = $hname;
    $this->Age = 1;
}
```

- **$this** :
  -

- **->** :
  - **"$"**

(destructor)

-

  - __destruct()

    -

```
function __destruct() {
        $this->Talk( "                    !");
}
```

(Instance)

-

  - new

  -

```php
<?php
$charles = new Human('     ');
$younghee = new Human('      ', 1, 50, 3.5);
$charles = NULL;        //
$younghee = NULL;     //
?>
```

-

- " ->"

- public

```php
<?php
$charles = new Human('    ', 5);   //5                              .
$charles->Talk($charles->Age);       //                 ?
$charles->Eat("dinner");              //        !           ~

//                                              .
$charles->Height = 110;               // 110 cm
$charles->Weight = 22;                // 22 Kg
?>
```

- extends

```
<?php
class Baby Extends Human {                    //
        function          () { echo "      ~" ; }
        function           () { echo "     ~      ~" ; }
}
$     = new Baby('     ');          //
$    ->             ();                    //      ~      ~
?>
```

-

public	
protected	
private	

(COOKIE)

-

(state)

.

-

.

- "name = value"

.

-

(COOKIE)

PHP

bool setcookie (,   ,   ,   ,   ,   );

인자	필수	설명
쿠키 이름	예	쿠키의 이름
쿠키 값	아니오	쿠키의 값
만료 시간	아니오	언제 쿠키가 만료될지 시간을 설정
경로	아니오	이 쿠키를 사용할 수 있는 서버 경로
도메인	아니오	이 쿠키를 사용할 수 있는 도메인
보안	아니오	HTTPS 에서만 사용할지 여부를 설정

[6- 1] setcookie

-

(COOKIE)

Cookie

- $_COOKIE
- Example : cookie.php vs. non-cookie.php

Cookie

- setcookie(" Cookie ")
- setcookie(" Cookie ", " ", time()-3600)
  - cookie . .

- setcookie Cookie
  Client .

-

(SESSION)

-
  -
-
  -
-
    -

웹 브라우저 → 접속 → 웹 서버

웹 브라우저 ← PHPSESSID ← 웹 서버

웹 서버 → 세션 저장 → 하드디스크

[6- 17]

-

(SESSION)

-
- .
  - 24
- .
  - ID ,
    .
  - ID .
- ,

-
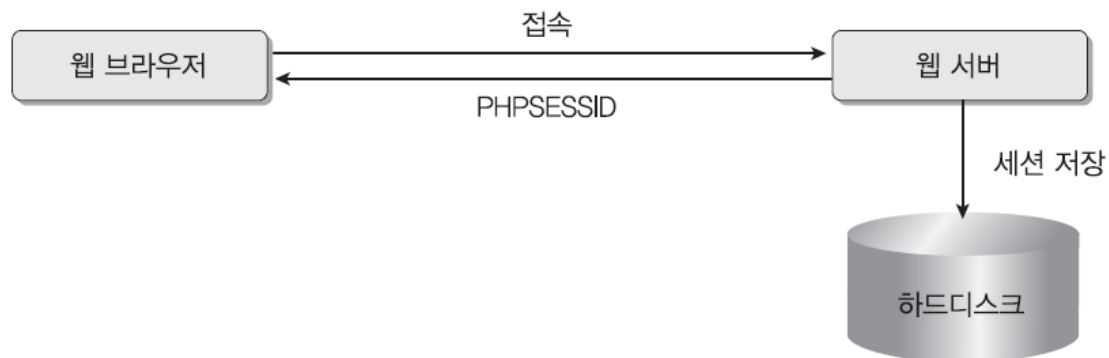
(SESSION)

- PHP   .
  - session_start()
    -
    - ID   .
      - PHPSESSID

```
1    <?php
2      session_start();
3    ?>
```

```
HTTP/1.1 200 OK
Date: Tue, 30 Oct 2007 08:02:10 GMT
Server: Apache
X-Powered-By: PHP/5.1.6
Set-Cookie: PHPSESSID=cb64ea3ac26d9ad9ba31390ef8763835; path=/
Expires: Thu, 19 Nov 1981 08:52:00 GMT
Cache-Control: no-store, no-cache, must-revalidate, post-check=0,
pre-check=0
Pragma: no-cache
Content-Length: 12
Content-Type: text/html
```

-

(SESSION)

- PHP 4.1   .
- PHP   .
  - $_SESSION   .
  - [6-7]   .

```
1    <?php
2      session_start();
3      $_SESSION['message'] = 'Welcome to PHP world!<BR>';
4
5    ?>
6    <a href="read_session.php">              </a>
```

-

(SESSION)

- $_SESSION   .
  - session_id()   :   ID

```
//read_session.php
1    <?php
2      session_start();
3
4      echo $_SESSION['message'];
5      echo "<P>";
6      echo "PHPSESSID=" . session_id();
7    ?>
```

-

MySQL

-

- .

- DataBase Management System
  -

    -

      .

    -

                                              .

  -

                                    -

SQL

-                         ,   ,

SQL

-                      (Data Definition Language)
  -                                    .
-                      (Data Manupulation Language)
  -               ,   ,   ,   .
-                      (Data Control Language)
  -                              .

- MySQL

DBMS

*

root

* MySQL

*

* GRANT [   ] ON [   ] TO [   ] [   ]

-

- MySQL

root
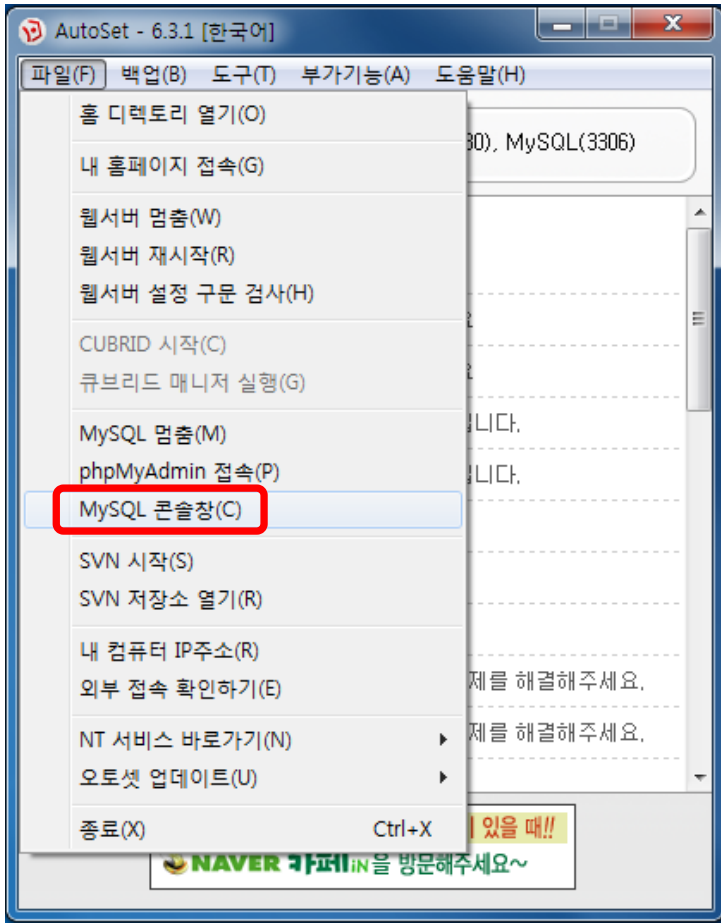
MySQL
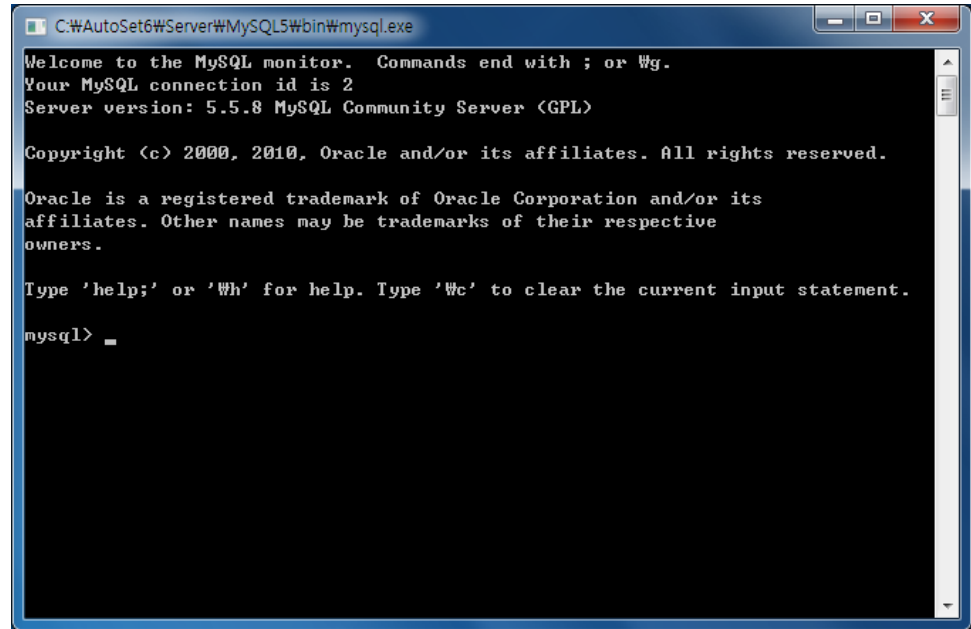
mysql> \q

- MySQL

MySQL
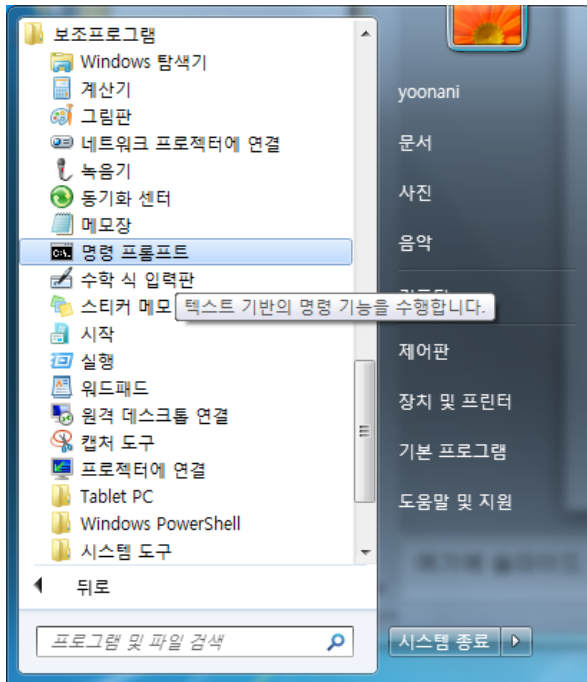
> cd c:\autoset6\Server\MySQL5\bin
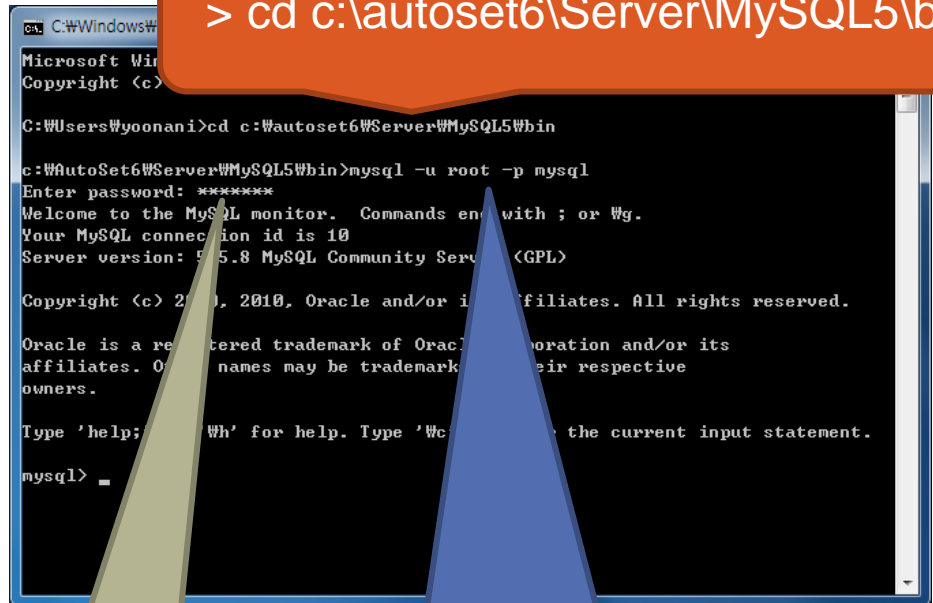
autoset

> mysql -u root -p mysql

-

- MySQL

- root   autoset

-
  - : mysql> \ q
  -
    mysqladmin -u root
                 -p
                 password test1234
  - autoset

-

DB :

DBMS

DB

- root
- DB

> **CREATE DATABASE** [IF NOT EXISTS] *db_name*
> [[DEFAULT] **CHARACTER SET** [=] *charset_name*
> [DEFAULT] **COLLATE** [=] *collation_name*]

- Ex
  - CREATE DATABASE testDB CHARACTER SET utf8;
  - show databases;

-

mysql> show databases;

DB :

DB

- DB   MySQL

- GRANT

권한	설명
ALL	GRANT OPTION을 제외한 모든 권한
ALTER	ALTER 명령 허용
CREATE	CREATE 명령 허용
DELETE	DELETE 명령 허용
DROP	DROP 명령 허용
INDEX	CREATE INDEX, DROP INDEX 명령 허용
INSERT	INSERT 명령 허용
SELECT	SELECT 명령 허용
UPDATE	UPDATE 명령 허용
USAGE	권한 없음

[7- 1O] **GRANT**

-

DB :

- 　　　　　　　　　 : DB　.table
  - 　DB　　　　　　Table : DB　.*
  - 　DB　　　　　　　: *.*
- 　　　　　: ' 　　　 ' @ ' 　　　　'
  - localhost　　　　　　　　 :
    ' 　　　 ' @ 'localhost'
- 　　 : IDENTIFIED BY ' 　　 '

Ex

- mysql> GRANT ALL ON testDB.* TO 'testUser' @ 'localhost' IDENTIFIED BY 'test1234';
- mysql> SELECT * FROM db;

-

TABLE :

TABLE

- MySQL .

- ( ) TABLE .

- .

-
(Primary Key, PK) .

-

TABLE :

-

데이터형	설명
BOOL, BOOLEAN	참 거짓, 0은 거짓이고 다른 값은 참
TINYINT(M)	매우 작은 정수, −128∼127(또는 0∼255)
SMALLINT(M)	작은 정수, −32768∼32767(또는 0∼65535)
MEDIUMINT(M)	중간 크기 정수, −8388608∼8388607(또는 0∼16777215)
INT(M), INTEGER(M)	일반 정수, −2147483648∼2147483647(또는 0∼4294967295)
BIGINT(M)	큰 정수, −9223372036854775808∼9223372036854775807 (또는 0 ∼ 18446744073709551615)
FLOAT(M,D)	작은 부동소수점수, M은 전체 자릿수, D는 소수점 뒷자리 −3.402823466E+38 ∼ −1.175494351E−38 0, 1.175494351E−38 ∼ 3.402823466E+38
DOUBLE(M,D)	일반 부동소수점수 −1.7976931348623157E+308 ∼ −2.2250738585072014E−308, 0, 2.2250738585072014E−308 ∼ 1.7976931348623157E+308

[7- 3]

–

TABLE :

-

데이터형	설명
CHAR(M)	0~255 길이의 문자열
VARCHAR(M)	MySQL 5.0.3 버전 이전에는 0~255 길이의 문자열 MySQL 5.0.3 버전 이후에는 0~65535 길이의 문자열
TINYTEXT	255 길이의 텍스트
TEXT(M)	최대 65535 길이의 텍스트
MEDIUMTEXT	최대 16,777,215 길이의 텍스트
LONGTEXT	최대 4GB 크기의 텍스트
TINYBLOB	최대 255 길이의 BLOB
BLOB(M)	최대 65535 길이의 BLOB
MEDIUMBLOB	최대 16,777,215 길이의 BLOB
LOGBLOB	최대 4GB 크기의 BLOB
ENUM('값1', '값2',…)	등록된 값 중에서 하나의 값을 선택하는 데이터형, 최대 65535개의 개별 값을 가질 수 있다.

[7- 4]

-

TABLE :

●

데이터형	설명
DATE	1000−01−01 ∼ 9999−12−31 범위의 날짜
DATETIME	1000−01−01 00:00:00 ∼ 9999−12−31 23:59:59 범위의 날짜와 시간
TIMESTAMP	1970−01−01 00:00:01 ∼ 2038−01−09 03:14:07 범위의 날짜와 시간
TIME	−838:59:59 ∼ 838:59:59 범위의 시간
YEAR	1901∼2155 범위

[7- 5]

-

TABLE :

- NULL, NOT NULL
  - .
- DEFAULT
  - .
- AUTO_INCREMENT
  - 1
  - .
- PRIMARY KEY
  - .

-

TABLE :

Table

- major(<u>mid</u>, mname)
- student(<u>sid</u>, sname, sage, sgender)
- subject(<u>sbid</u>, sbname)
- sclass(<u>sid</u>, <u>sbid</u>)
-

TABLE   SQL

```
CREATE TABLE [IF NOT EXISTS] tbl_name (
        1       [        ],    2     [        ], … ,     n      [        ],
     [table        ]
);
```

-

TABLE :

DB   .

- > mysql -u testUser -p testdb

major (   )

```
CREATE TABLE major (
    mid         int unsigned
                NOT NULL AUTO_INCREMENT
                PRIMARY KEY,
    mname       varchar(20)NOT NULL
);
```

-

TABLE :

student(   )

```
CREATE TABLE student (
    sid        char(8)     NOT NULL PRIMARY KEY,
    sname      varchar(20)            NOT NULL,
    sage       tinyint unsigned     NOT NULL,
    sgender    enum('M', 'F', 'E')   NOT NULL,
    smajor     int unsigned          NOT NULL
);
```

-

TABLE :

subject(   )

CREATE TABLE subject (
        sbid   int unsigned   NOT NULL
                                    AUTO_INCREMENT
                                    PRIMARY KEY,
        sbname varchar(40)   NOT NULL
);

-

TABLE :

sclass(   )

CREATE TABLE sclass (
    sid   char(8)   NOT NULL,
    sbid   int unsigned   NOT NULL,
                                PRIMARY KEY (sid, sbid)
);

-

E-R
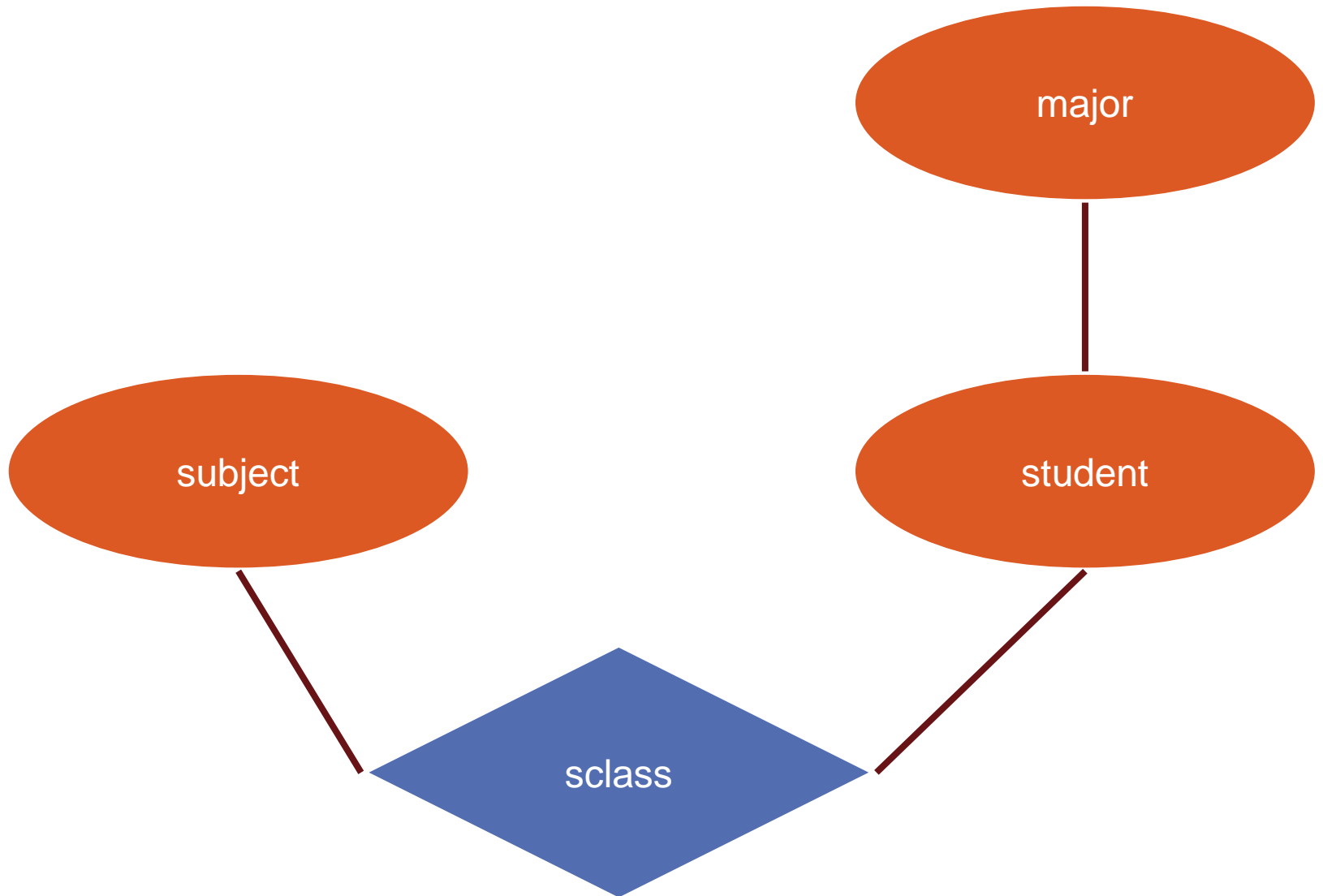
MySQL

MySQL

INSERT :   - PART I

Table   .

http://dev.mysql.com/doc/refman/5.1/en/insert.html

- .

```
INSERT INTO tbl_name [(col_name, … )]
              VALUES (value, …), … , (value);
```

```
> INSERT INTO major (mid, mname) VALUES (1, '      ');
> INSERT INTO major (mname) VALUES ('     ');
> INSERT INTO dept_tab VALUES
+> (3, '           '),
+> (4, '         ');
```

> SET CHARATER SET euckr;

-

UPDATE :

-   .

(WHERE   )

- DB   .
- WHERE   .
-          AND   OR   .

http://dev.mysql.com/doc/refman/5.1/en/update.html

                          .

```
UPDATE tbl_name SET
col_name1={expr1|DEFAULT}
[, col_name2={expr2|DEFAULT}] ...
[WHERE where_condition]
[ORDER BY ...]
[LIMIT row_count]
```

              -

UPDATE :

-                        3   2
  - student   smajor   2   3

```
> UPDATE student SET smajor = 3 WHERE smajor = 2;
```

-

                  .

  -

        3   .

```
> UPDATE student SET sname = '    '
+> WHERE sname = '    ' AND smajor = 3
```

-

DELETE :

(WHERE)

.

```
DELETE FROM tbl_name
[WHERE where_condition]
[ORDER BY ...]
[LIMIT row_count]
```

- 20121001   .
    > DELETE FROM student WHERE sid = '20121001';
- WHERE
    > DELETE FROM student_tab;

-

SELECT :

DB

(WHERE)   .

http://dev.mysql.com/doc/refman/5.1/en/select.html

```
SELECT select_expr [, select_expr ...]
  [FROM table_references
  [WHERE where_condition]
  [GROUP BY {col_name | expr | position}
    [ASC | DESC], ... [WITH ROLLUP]]
  [HAVING where_condition]
  [ORDER BY {col_name | expr | position}
    [ASC | DESC], ...]
  [LIMIT {[offset,] row_count | row_count OFFSET offset}]
```

-

SELECT :

-

```
INSERT INTO student VALUES
    (NULL, '20121001', '       ', 51, 'M', 1),
    (NULL, '20121002', '    ', 25, 'M', 2),
    (NULL, '20121003', '       ', 5, 'M', 1),
    (NULL, '20121004', '      ', 24, 'M', 3),
    (NULL, '20121005', '     ', 28, 'M', 4),
    (NULL, '20121006', '      ', 41, 'M', 1),
    (NULL, '20121007', '     ', 10, 'M', 3),
    (NULL, '20121008', '      ', 11, 'F', 2);
```

-

SELECT :

- 1

  SELECT * FROM student **WHERE smajor = 1**;

- 1

  SELECT sid, same FROM student WHERE smajor = 1;

-

  - count(   ):   ;

  SELECT smajor, count(smajor) as ' '
              FROM student **GROUP BY** smajor;

- 1

  SELECT smajor, count(smajor) as ' '
              FROM student GROUP BY smajor
              HAVING smajor <> 1;

-

SELECT :

- ( )

  SELECT smajor, sid, same
               FROM student
               ORDER BY smajor **ASC**, sid **DESC**;

-

  -

  SELECT sid, sname FROM student
                   ORDER BY sid **LIMIT 0, 1**;

PHP

MySQL

MYSQL

mysql_connect()

- http://kr.php.net/manual/en/function.mysql-connect.php
- resource mysql_connect (
  [string $server = *ini_get("mysql.default_host")*
  [, string $username = *ini_get("mysql.default_user")*
  [, string $password = *ini_get("mysql.default_password")*
  [, bool $new_link = *false*
  [, int $client_flags = *0*]]]]])
  - $server : MySQL Server
  - $username :   MySQL
  - $password :

mysql_close()

- http://kr.php.net/manual/en/function.mysql-close.php
- bool mysql_close ([resource $link_identifier])
  - $link_identifier :

Ex. mysql_connect.php

-

mysql_select_db()

- http://kr.php.net/manual/en/function.mysql-select-db.php
- bool mysql_select_db (
  string $database_name
  [, resource $link_identifier])
  - $database_name :   DB
  - $link_identifier :
- Ex. mysql_select_db.php

mysql_query()

- http://kr.php.net/manual/en/function.mysql-query.php
- resource mysql_query (
    string $query [, resource $link_identifier])
    - $query :   SQL   MySQL
    - $link_identifier :
- Ex.

    $result = **mysql_query**('SELECT mid, mname FROM major');
    if (!$result) {
        die('Could not query:' . mysql_error());
    }

-

mysql_affected_rows

- http://kr.php.net/manual/en/function.mysql-affected-rows.php
- int mysql_affected_rows ([resource $link_identifier])
  - $link_identifier :
- Insert, update, delete

mysql_num_rows()

- http://kr.php.net/manual/en/function.mysql-num-rows.php
- int mysql_num_rows (resource $result)
  - $result : mysql_query()
- Select

Ex. mysql_counting.php

-

mysql_result

- http://kr.php.net/manual/en/function.mysql-result.php
- string mysql_result (resource $result ,
        int $row
        [, mixed $field = 0])
    - $result : mysql_query
    - $row :   (0   )
    - $field :   (0   )
- Ex. mysql_result.php
-

mysql_fetch_array

- http://kr.php.net/manual/en/function.mysql-fetch-array.php
- array mysql_fetch_array (resource $result
              [, int $result_type = *MYSQL_BOTH*])
  - $result : mysql_query
  - $result_type
    - MYSQL_BOTH :

    - MYSQL_NUM :   .
    - MYSQL_ASSOC :
      .
    -

      .

    -

- Ex. mysql_fetch_array.php

                              -

-
- 5
  -
-
-
-

\-

TABLE

CREATE TABLE gbook (

        gb_id   int unsigned   NOT NULL AUTO_INCREMENT PRIMARY KEY,

        writer   varchar(50)   NOT NULL,

        regDate   datetime   NOT NULL,

        comments   text   NOT NULL,

        userpwd   char(41)   NOT NULL

);

```
mysql> desc gbook;
+----------+------------------+------+-----+---------+----------------+
| Field    | Type             | Null | Key | Default | Extra          |
+----------+------------------+------+-----+---------+----------------+
| gb_id    | int(10) unsigned | NO   | PRI | NULL    | auto_increment |
| writer   | varchar(50)      | NO   |     | NULL    |                |
| regDate  | datetime         | NO   |     | NULL    |                |
| comments | text             | NO   |     | NULL    |                |
| userpwd  | char(41)         | NO   |     | NULL    |                |
+----------+------------------+------+-----+---------+----------------+
5 rows in set (0.01 sec)
```

-

(CONF.PHP)

DB

DB

```php
<?php
$host = "localhost";
$user = "testUser";
$password = "test1234";
$db = "testdb";
$conn = mysql_connect($host, $user, $password);
if(!mysql_select_db($db)) {
    die("DB Connectio failed : " . mysql_error() );
}
?>
```

FORM(WRITE_FORM.HTML)

Form   .

POST   write_proc.php   .

-

DB   .

Form

- ID,   ,   Form   .

```
$getID = trim( $_POST["getID"] ) ;
if(strlen($getID) < 1) {
    echo "<script type=\ "text/javascript\ ">\ n";
    echo "       alert('                    .');\ n";
    echo "       history.go(-1);\ n";
    echo "</script>\ n";
    exit;
};
```

DB   list.php

-

```php
$sql = "select count(*) from gbook";
$result = mysql_query($sql);
$total = mysql_result($result, 0, 0);


$page_size = 5;



if( !isset($_GET["start"])  ) {
    $start = 0;
} else {
    $start = $_GET["start"];
}
```

-

– LIST.PHP

```php
$sql = "SELECT gb_id, writer, comments FROM gbook
        ORDER BY gb_id DESC
        LIMIT " . $start . ", " . $page_size;
$result = mysql_query($sql);
$pageViews = mysql_num_rows($result);

if($pageViews == 0) {
  //
} else {
   while($rows = mysql_fetch_array($result, MYSQL_ASSOC) )
   {
        //
   }
}
```

-

– LIST.PHP

Page

- $start
  - index
  -
    - 21 , 5

0	5	10	15	20
1	6	11	16	
2	7	12	17	
3	8	13	18	
4	9	14	19	
1	**2**	**3**	**4**	**5**

-
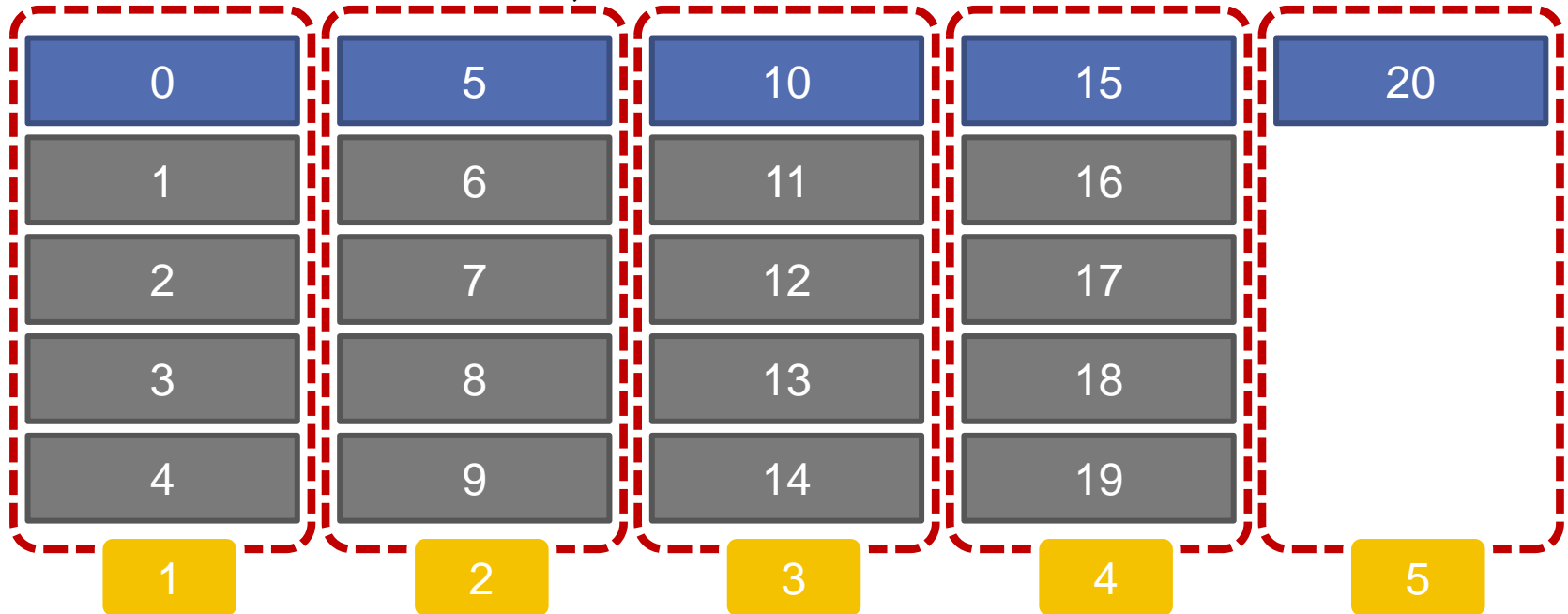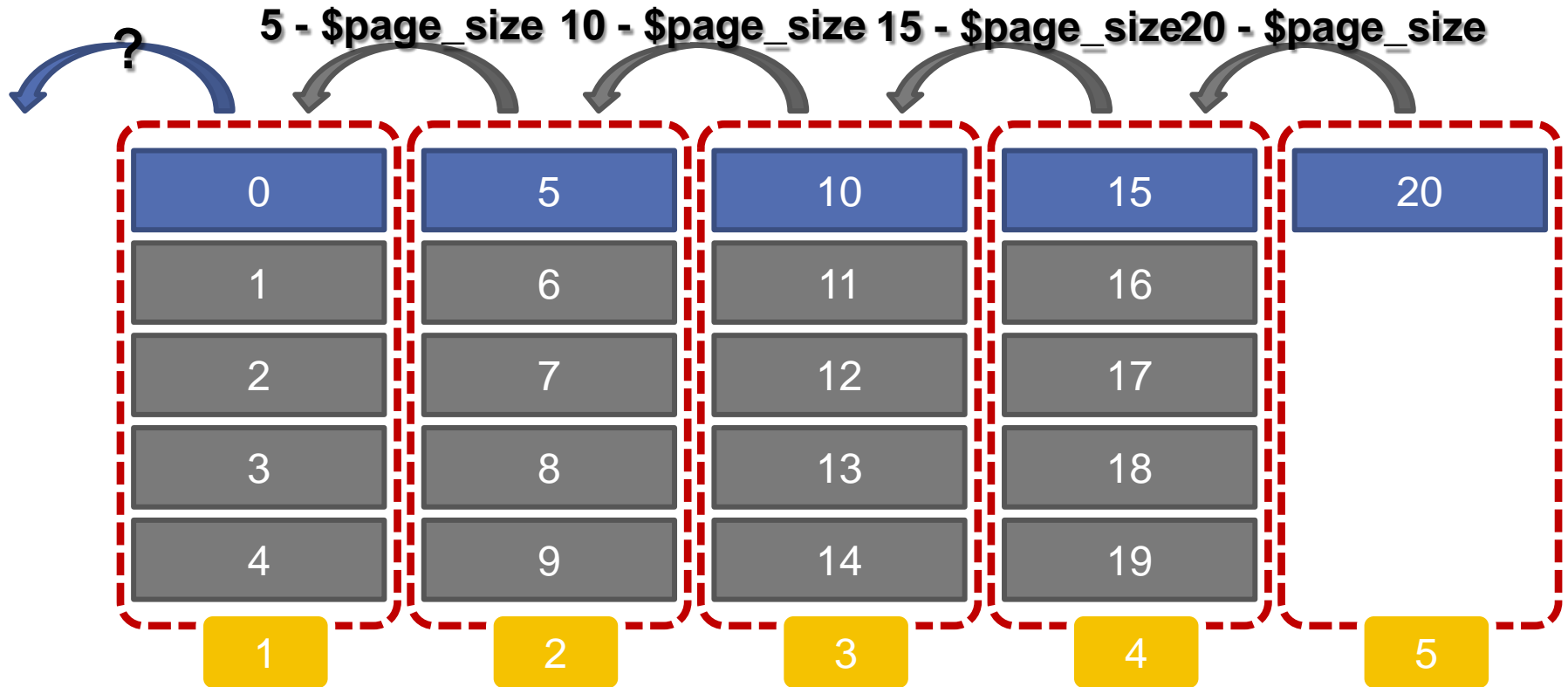
– LIST.PHP

```php
<?php
        $prev_page = $start - $page_size;
        if($prev_page >= 0) {
?>
[<A
HREF="<?=$_SERVER["PHP_SELF"]."?start=".$prev_page?>">        Page</A>]
<?php
        }
?>
```

-
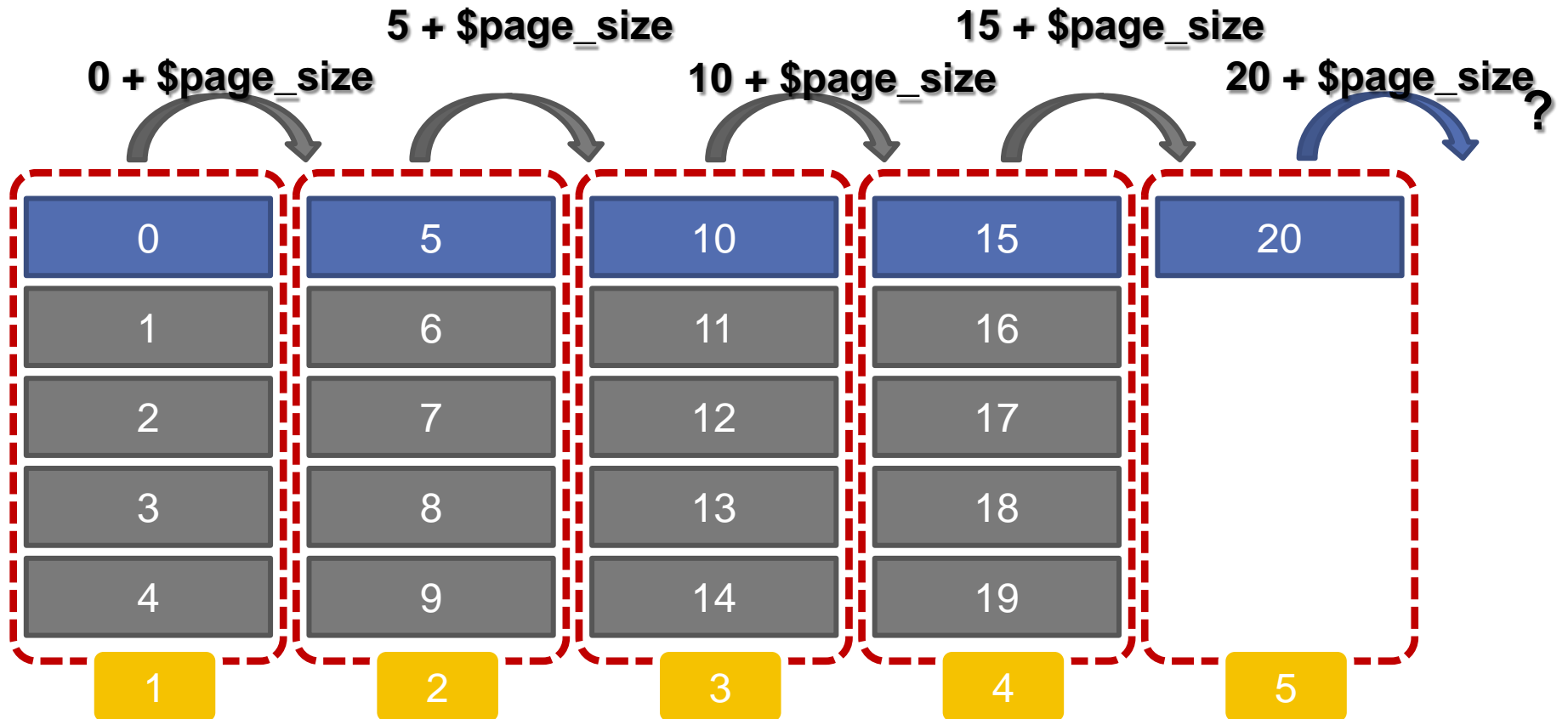
```php
<?php
    $next_page = $start + $page_size;
    if($next_page < $total) {
?>
[<A
HREF="<?=$_SERVER["PHP_SELF"]."?start=".$next_page?>">    Page</A>]
<?php
    }
?>
```

-

action.php URL (GET) action
              (update, delete)

              .

action.php

                  .

- Page (modify_form.php)
-                  .

-

( )

5

TABLE

CREATE TABLE gbook (

        gb_id   int unsigned   NOT NULL AUTO_INCREMENT PRIMARY KEY,

        writer   varchar(50)   NOT NULL,

        regDate   datetime   NOT NULL,

        comments   text   NOT NULL,

        userpwd   char(41)   NOT NULL

);

```
mysql> desc gbook;
+----------+------------------+------+-----+---------+----------------+
| Field    | Type             | Null | Key | Default | Extra          |
+----------+------------------+------+-----+---------+----------------+
| gb_id    | int(10) unsigned | NO   | PRI | NULL    | auto_increment |
| writer   | varchar(50)      | NO   |     | NULL    |                |
| regDate  | datetime         | NO   |     | NULL    |                |
| comments | text             | NO   |     | NULL    |                |
| userpwd  | char(41)         | NO   |     | NULL    |                |
+----------+------------------+------+-----+---------+----------------+
5 rows in set (0.01 sec)
```

-

action.php   URL   (GET   ) action
                    (update, delete)
                .

action.php   POST
        validate_user.php   .

                    .

    •   update.php
    •   delete.php

                    -

ACTION.PHP

- action.php?action=update&id=   ID&start=
- action.php?action=delete&id=   ID&start=

GET

- $action = $_GET["action"];
- $id = $_GET["id"];
- $start = $_GET["start"];

Hidden   validate_user.php

- <input type="hidden" name="action" value="<?php echo $action;?>" />
- <input type="hidden" name="id" value="<?php echo $id;?>" />
- <input type="hidden" name="start" value="<?php echo $start;?>" />

-

VALIDATE_USER.PHP

action.php

action

- $action = $_POST["action"];
- $id = $_POST["id"];
- $start = $_POST["start"];

-
  - $sql = "SELECT userpwd FROM gbook WHERE gb_id = " . $id;
  - $result = mysql_query($sql);
  - $isHere = mysql_num_rows($result);
  - if($isHere) {
        $storedPwd = mysql_result($result, 0, 0);

-

VALIDATE_USER.PHP

-

  - $sql = "SELECT password('" . trim($_POST["getPWD"]) . "');";
  - $result = mysql_query($sql);
  - $inputPwd = mysql_result($result, 0, 0);

-

  - if(strcmp($storedPwd, $inputPwd))
    - strcmp   0

```
switch($action) {
    case 'update' :
?>
        //          JavaScript
<?php
            break;
    case 'delete' :
?>
        //          JavaScript
<?php
            break;
}   -
```

```php
$action = $_GET["action"];
$id = $_GET["id"];
$start = $_GET["start"];

if(isset($_GET["action"]) AND isset($_GET["id"]) AND
isset($_GET["start"])) {



$sql = "SELECT gb_id, writer, comments FROM gbook WHERE
gb_id=" . $id;
$result = mysql_query($sql);
$rows = mysql_fetch_array($result, MYSQL_ASSOC);
```

-

```
<input id="getID" name="getID" type="text" size="20"
maxlength="20" value="<?php echo $rows["writer"];?>" />
…
<textarea id="getComments" name="getComments"
rows="10" cols="40"><?php echo
$rows["comments"];?></textarea>
```

hidden

```
<input type="hidden" name="id" value="<?php echo $id;?>" />
<input type="hidden" name="start" value="<?php echo $start;?>" />
```

-

(Form Validation) –
SQL – UPDATE

```
$sql = "UPDATE gbook SET
        writer='" . $getID . "',
        comments='" . $getComments . "',
        userPwd=password('" . $getPWD . "')
        WHERE gb_id = " . $_POST["id"];
```

```
echo "<script type=\"text/javascript\">\n";
echo " location.href='list.php?start=" . $_POST["start"] . "';\n";
echo "</script>\n";
exit;
```

-

```javascript
<script type="text/javascript">
var isDel = confirm("                    ?");
if(!isDel) {
        location.href='list.php?start=' + '<?php echo $start;?>';
}
</script>
```

SQL – DELETE

```php
$sql = "DELETE FROM gbook WHERE gb_id = " . $id;
```

```javascript
<script type="text/javascript">
        alert("                   .");
        location.href='list.php?start=' + '<?php echo
$start;?>';
</script>
```

-

PHP

http://openx3.tistory.com
"Web –   "