

# PHP WORKSHOP – VIT ACM

- MySQL - Installation (Windows and Linux)

Download XAMPP for Windows:

<http://www.apachefriends.org/en/xampp.html>

Download XAMPP for Linux:

<http://www.apachefriends.org/en/xampp.html>

Download XAMPP for Mac

<http://www.apachefriends.org/en/xampp.html>

- MySQL - Administration (User Accounts etc)

Default Host: localhost


Default Username: root

Default Pass: \*\*blank\*\*

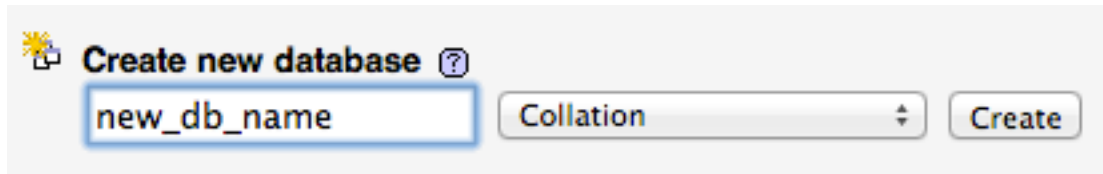
You can go to <http://localhost/phpmyadmin> and add custom username and edit password to root, or add custom username

A	B	C	D	E	F	G
	User	Host	Pa			
<input type="checkbox"/>	Any	%	--			
<input type="checkbox"/>	Any	devmac	Nc			
<input type="checkbox"/>	Any	localhost	Nc			
<input type="checkbox"/>	root	127.0.0.1	Nc			
<input type="checkbox"/>	root	devmac	Nc			
<input type="checkbox"/>	root	localhost	Nc			
<input type="checkbox"/>	tprpg_main	%	Ye			
<input type="checkbox"/>	tprpg_main	localhost	Ye			

↑ Check All / Uncheck All

 Add a new User

- MySQL - Table



🌟 **Create new database** ?  
 Collation ⌵ Create

Create a database with the desired name. After you create a database, add table like shown below.



📄 **Create new table on database new\_db\_name**  
 Name:  Number of fields:

Add number of fields you want for the table(columns). For example, ID, Name, Username, Password, Email, IP

Field	Type <span>?</span>	Length/Values <sup>1</sup>	Default <sup>2</sup>
<input type="text" value="ID"/>	<input type="text" value="INT"/>	<input type="text" value="64"/>	<input type="text" value="None"/> <input type="text"/>
<input type="text" value="Name"/>	<input type="text" value="VARCHAR"/>	<input type="text" value="64"/>	<input type="text" value="None"/> <input type="text"/>
<input type="text" value="Username"/>	<input type="text" value="VARCHAR"/>	<input type="text" value="64"/>	<input type="text" value="None"/> <input type="text"/>
<input type="text" value="Password"/>	<input type="text" value="VARCHAR"/>	<input type="text" value="64"/>	<input type="text" value="None"/> <input type="text"/>
<input type="text" value="Email"/>	<input type="text" value="VARCHAR"/>	<input type="text" value="64"/>	<input type="text" value="None"/> <input type="text"/>
<input type="text" value="IP"/>	<input type="text" value="VARCHAR"/>	<input type="text" value="64"/>	<input type="text" value="As defined:"/> <input type="text" value="127.0.0.1"/>

Specify the Type of the field, and the length of that field(if applicable)

Specify if you want a default value to be inserted if nothing is specified when inserting data into that table.

Specify if it is an index, and if yes then specify if it needs to be auto incremented when inserting data.

Generally, ID is a primary key that is set on auto increment (A\_I)

Null	Index	A_I	Comments
<input type="checkbox"/>	PRIMARY	<input checked="" type="checkbox"/>	
<input type="checkbox"/>	<div style="border: 1px solid gray; padding: 5px;"> <input checked="" type="checkbox"/> ---  PRIMARY  UNIQUE  INDEX  FULLTEXT </div>	<input type="checkbox"/>	
<input type="checkbox"/>	---	<input type="checkbox"/>	
<input type="checkbox"/>	---	<input type="checkbox"/>	
<input type="checkbox"/>	---	<input type="checkbox"/>	

acm

A sample table like below will be created.

	Field	Type	Collation	Attributes	Null	Default	Extra	Action
<input type="checkbox"/>	<b>ID</b>	int(64)			No	None	auto_increment	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/>	<b>Name</b>	varchar(64)	latin1_swedish_ci		No	None		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/>	<b>Username</b>	varchar(64)	latin1_swedish_ci		No	None		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/>	<b>Password</b>	varchar(64)	latin1_swedish_ci		No	None		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/>	<b>Email</b>	varchar(64)	latin1_swedish_ci		No	None		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/>	<b>IP</b>	varchar(64)	latin1_swedish_ci		No	127.0.0.1		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

Check All /  Uncheck All With selected:

---

Print view  Propose table structure

Add  field(s)
 At End of Table
 At Beginning of Table
 After

---

**Indexes:**

Action	Keyname	Type	Unique	Packed	Field	Cardinality	Collation	Null	Comment
<input type="checkbox"/> <input checked="" type="checkbox"/>	PRIMARY	BTREE	Yes	No	ID	0	A		

- MySQL – Syntax

This syntax is very similar to the other SQL commands like Oracle, etc.

Insert:

```
INSERT INTO `new_db_name`.`new_table_1` (`Name`, `Username`,  
`Password`, `Email`, `IP`) VALUES ('Pradnesh Patil', 'Flexology', '12qwaszx',  
'pradnesh.07@gmail.com', '127.0.0.1');
```

Select:



```
SELECT * FROM `new_db_name`.`new_table_1` WHERE `ID` > '15'  
//Selects from table whose ID is greater than 15
```

Delete:

```
DELETE * FROM `new_db_name`.`new_table_1` WHERE `ID` > '15'  
//Deletes from table whos ID is greater than 15
```

- MySQL - Inserting Data

Syntax mentioned above. The data is inserted like shown below.

	ID	Name	Username	Password	Email	IP
<input type="checkbox"/>  	1	Pradnesh Patil	Flexology	12qwaszx	pradnesh.07@gmail.com	127.0.0.1

- MySQL - Accessing Data

Syntax mentioned above (Select)

- MySQL - Order By and Where

Used in conjugation with Select to `Order` the results or to apply a `Constraint` to the results.

```
SELECT * FROM `new_db_name`.`new_table_1` WHERE `ID` > '15'  
//Selects from table whose ID is greater than 15 and is in the order  
15,16,17,18,19.....
```

```
SELECT * FROM `new_db_name`.`new_table_1` WHERE `ID`>'15' ORDER BY  
`Name`
```

//Selects from table whose ID is greater than 15 and is in the order  
87,86,85,84,83,82...

- PHP - Introduction to PHP Scripting

PHP codes start with <?php and end with ?>

A simple hello world can be written as

```
<?php  
echo "Hello World!";  
?>
```

The code is to be stored in a <name>.php file and stored in the  
/wamp/www/ directory in WAMP  
or /xampp/htdocs/ directory in XAMPP

- PHP - Database connect

The function `mysql_connect()` is used to connect to database, it takes 3  
parameters, 'hostname', 'username', 'password'

It is used as

```
mysql_connect('localhost','root',''); //Considering default login info
```

After connecting to database, its necessary to select the database we are  
working on

```
mysql_select_db('new_db_name');
```

- PHP - Variables

Variables in php are declines using a dollar symbol before them

eg. \$example

They don't have a datatype, any kind of data can be stored in a variable and also it doesn't use extra memory space. Just what's needed for the variable is taken.

Eg. `$hello="Hello World"`; will take up memory equal to the number of bits, not extra.

```
$numbervar=1;
```

```
$lettervar='C';
```

```
$stringchar='VIT ACM';
```

```
$arraychar=array("VIT","ACM","Mumbai","2013-14");
```

- PHP – Conditions and Loops

```
if($teststring=='Boom')
```

```
{
```

```
echo "String is Boom";
```

```
}
```

```
else
```

```
{
```

```
echo "String is not boom";
```

```
}
```

Above one prints **"String is Boom"** if `$teststring` is Boom else it prints **"String is not boom"**

```
for($i=0;$i<100;$i++)
```

```
{
```

```
echo "Hello number ".$i;
```

```
}
```

It prints,

Hello number 0

Hello number 1

Hello number 2

....

Hello number 98

Hello number 99

- PHP - Using MySQL in PHP

Using PHP to use mysql codes is easy, the SQL codes are written inside a `mysql_query()`; function and when called are executed.

Eg: `mysql_query("DELETE * FROM `new_db_name`.`new_table_1` WHERE `ID`>'15' ");`

The above PHP code executes that command on the MySQL table.

The PHP code for Select is a bit different, it involves getting the data in an array or object form and then accessing.

eg:

## FOR SINGLE DATA

```
$testquery = mysql_query("SELECT * FROM `new_db_name`.`new_table_1`  
WHERE `ID`='1' ");
```

```
$test = mysql_fetch_object($testquery);
```

```
echo $test->ID;           //prints ID  
echo $test->Name;        //prints Name  
echo $test->Username;    //prints Username
```

## FOR MULTIPLE DATA

```
$testquery = mysql_query("SELECT * FROM `new_db_name`.`new_table_1`  
WHERE `ID`<'15' ");
```

```
while($test = mysql_fetch_object($testquery))
{
echo $test->ID." - ";
echo $test->Name." - ";
echo $test->Username;
}
```

Prints:

```
1 - Pradnesh Patil - Flexology
2 - Ankur Singh - Bhaiyaji
3 - Suraj Subramanian - SouthIndianHero
.....
15 - Amey Bhole - BholeBaba
```

- PHP - Sessions

```
$_SESSION["ID"] = $ID; //Sets a session ID, that will make sure that
                        user is logged into the website
```

```
session_destroy(); //destroys all sessions, aka logout
```

- PHP - Forms

```
<form method='POST'>
<input type='text' name='testfield'>
<input type='submit' name='testsubmit'>
</form>
```

The value from testfield if method is post is stored in, `$_POST['testfield']`

The value from testfield if method is get is stored in, `$_GET['testfield']`

To check if form is submitted, you use

```
if(isset($_POST['testsubmit']))
{
echo "Submit Button Pressed";
}
else
{
echo "Please enter details";
}
```

The above code will make sure that, the code inside the IF will be executed IF AND ONLY IF, the testsubmit button is pressed.



If you have any doubts or some problems with the above codes, email me below [pradnesh.07@gmail.com](mailto:pradnesh.07@gmail.com)

