

MySQLi Methods

Establishing a connection:

```
$con=mysqli_connect("localhost","my_user","my_password","my_db");
```

Checking for a connection:

```
if (mysqli_connect_errno())
{
    echo "Failed to connect to MySQL: " . mysqli_connect_error();
}
```

Select Query, row count:

```
$sql="SELECT Lastname,Age FROM Persons ORDER BY Lastname";
if ($result=mysqli_query($con,$sql))
{
    $rowcount=mysqli_num_rows($result);
    printf("Result set has %d rows.\n",$rowcount);
    mysqli_free_result($result);
}
mysqli_close($con);
```

Select Associative Array:

```
$sql="SELECT Lastname,Age FROM Persons ORDER BY Lastname";
$result=mysqli_query($con,$sql);

// Associative array
while($row=mysqli_fetch_assoc($result))
}
printf ("%s (%s)\n",$row["Lastname"],$row["Age"]);
}
```

Select Object:

```
if ($result=mysqli_query($con,$sql))
{
    while ($obj=mysqli_fetch_object($result))
    {
        printf("%s (%s)\n",$obj->Lastname,$obj->Age);
    }
    mysqli_free_result($result);
}
```

Connect, select, print via object access:

```
$db = new mysqli('host', 'UserName', 'Password', 'DatabaseName');

if($db->connect_errno > 0)
{
    die('Unable to connect to database [' . $db->connect_error . ']');
}
$results = $db->query("SELECT id,name from students");
while($row = $result->fetch_assoc())
{
    echo $row['id'];
    echo $row['name'];
}
```

MySQLi Prepared Statements:

```
$statement = $db->prepare("SELECT name FROM students WHERE id = ?");
$id = '2';
$statement->bind_param('s', $id);

$id = 2;
$name = 'XYZ';
$statement->bind_param('is', $id,$name); //integer, string
```

(You have to attach all the variables whose value you want in your query with thier appropriate Data Types)

```
$statement->execute();

$statement->bind_result($name);

while($statement->fetch())
{
    echo $name;
}
$statement->free_result();
```

Via arrays (Object form)

```
$mysqli = new mysqli("127.0.0.1", "user", "password", "world");
if($mysqli->connect_error)
{
    die("$mysqli->connect_errno: $mysqli->connect_error");
}
$query = "SELECT Name, Population, Continent FROM Country WHERE Continent=? ORDER
BY Name LIMIT 1";
$stmt = $mysqli->stmt_init();

if(!$stmt->prepare($query))
{
    print "Failed to prepare statement\n";
}
else
{
    $stmt->bind_param("s", $continent);
    $continent_array = array('Europe','Africa','Asia','North America');
    foreach($continent_array as $continent)
    {
        $stmt->execute();
        $result = $stmt->get_result();
        while ($row = $result->fetch_array(MYSQLI_NUM))
        {
            foreach ($row as $r)
            {
                print "$r ";
            }
            print "\n";
        }
    }
}
$stmt->close();
$mysqli->close();
```

Via arrays (procedural form)

```
$link = mysqli_connect("127.0.0.1", "user", "password", "world");
if (!$link)
{
    $error = mysqli_connect_error();
    $errno = mysqli_connect_errno();
    print "$errno: $error\n";
    exit();
}
$query = "SELECT Name, Population, Continent FROM Country WHERE Continent=? ORDER
BY Name LIMIT 1";
$stmt = mysqli_stmt_init($link);
if(!mysqli_stmt_prepare($stmt, $query))
{
    print "Failed to prepare statement\n";
}
else
{
    mysqli_stmt_bind_param($stmt, "s", $continent);
    $continent_array = array('Europe','Africa','Asia','North America');
    foreach($continent_array as $continent)
    {
        mysqli_stmt_execute($stmt);
        $result = mysqli_stmt_get_result($stmt);
        while ($row = mysqli_fetch_array($result, MYSQLI_NUM))
        {
            foreach ($row as $r)
            {
                print "$r ";
            }
            print "\n";
        }
    }
}
mysqli_stmt_close($stmt);
mysqli_close($link);
```

