# MONGODB - PHP

To use MongoDB with PHP, you need to use MongoDB PHP driver. Download the driver from the url Download PHP Driver. Make sure to download the latest release of it. Now unzip the archive and put php_mongo.dll in your PHP extension directory " $ext$ " $by default$ and add the following line to your php.ini file –

```
extension = php_mongo.dll
```

## Make a Connection and Select a Database

To make a connection, you need to specify the database name, if the database doesn't exist then MongoDB creates it automatically.

Following is the code snippet to connect to the database –

```php
<?php
   // connect to mongodb
   $m = new MongoClient();

   echo "Connection to database successfully";
   // select a database
   $db = $m->mydb;

   echo "Database mydb selected";
?>
```

When the program is executed, it will produce the following result –

```
Connection to database successfully
Database mydb selected
```

## Create a Collection

Following is the code snippet to create a collection –

```php
<?php
   // connect to mongodb
   $m = new MongoClient();
   echo "Connection to database successfully";

   // select a database
   $db = $m->mydb;
   echo "Database mydb selected";
   $collection = $db->createCollection("mycol");
   echo "Collection created succsessfully";
?>
```

When the program is executed, it will produce the following result –

```
Connection to database successfully
Database mydb selected
Collection created succcsessfully
```

## Insert a Document

To insert a document into MongoDB, **insert** method is used.

Following is the code snippet to insert a document –

```php
<?php
   // connect to mongodb
   $m = new MongoClient();
   echo "Connection to database successfully";

   // select a database
   $db = $m->mydb;
   echo "Database mydb selected";
   $collection = $db->mycol;
   echo "Collection selected succcsessfully";

   $document = array(
      "title" => "MongoDB",
      "description" => "database",
      "likes" => 100,
      "url" => "http://www.tutorialspoint.com/mongodb/",
      "by", "tutorials point"
   );

   $collection->insert($document);
   echo "Document inserted successfully";
?>
```

When the program is executed, it will produce the following result –

```
Connection to database successfully
Database mydb selected
Collection selected succcsessfully
Document inserted successfully
```

## Find All Documents

To select all documents from the collection, find method is used.

Following is the code snippet to select all documents –

```php
<?php
   // connect to mongodb
   $m = new MongoClient();
   echo "Connection to database successfully";

   // select a database
   $db = $m->mydb;
```

```php
    echo "Database mydb selected";
    $collection = $db->mycol;
    echo "Collection selected succsessfully";

    $cursor = $collection->find();
    // iterate cursor to display title of documents

    foreach ($cursor as $document) {
        echo $document["title"] . "\n";
    }
?>
```

When the program is executed, it will produce the following result –

```
Connection to database successfully
Database mydb selected
Collection selected succsessfully {
    "title": "MongoDB"
}
```

## Update a Document

To update a document, you need to use the update method.

In the following example, we will update the title of inserted document to **MongoDB Tutorial**. Following is the code snippet to update a document –

```php
<?php
    // connect to mongodb
    $m = new MongoClient();
    echo "Connection to database successfully";

    // select a database
    $db = $m->mydb;
    echo "Database mydb selected";
    $collection = $db->mycol;
    echo "Collection selected succsessfully";

    // now update the document
    $collection->update(array("title"=>"MongoDB"),
        array('$set'=>array("title"=>"MongoDB Tutorial")));
    echo "Document updated successfully";

    // now display the updated document
    $cursor = $collection->find();

    // iterate cursor to display title of documents
    echo "Updated document";

    foreach ($cursor as $document) {
        echo $document["title"] . "\n";
    }
?>
```

When the program is executed, it will produce the following result −

```
Connection to database successfully
Database mydb selected
Collection selected succsessfully
Document updated successfully
Updated document {
    "title": "MongoDB Tutorial"
}
```

## Delete a Document

To delete a document, you need to use remove method.

In the following example, we will remove the documents that has the title **MongoDB Tutorial**. Following is the code snippet to delete a document −

```php
<?php
   // connect to mongodb
   $m = new MongoClient();
   echo "Connection to database successfully";

   // select a database
   $db = $m->mydb;
   echo "Database mydb selected";
   $collection = $db->mycol;
   echo "Collection selected succsessfully";

   // now remove the document
   $collection->remove(array("title"=>"MongoDB Tutorial"),false);
   echo "Documents deleted successfully";

   // now display the available documents
   $cursor = $collection->find();

   // iterate cursor to display title of documents
   echo "Updated document";

   foreach ($cursor as $document) {
      echo $document["title"] . "\n";
   }
?>
```

When the program is executed, it will produce the following result −

```
Connection to database successfully
Database mydb selected
Collection selected succsessfully
Documents deleted successfully
```

In the above example, the second parameter is boolean type and used for **justOne** field of **remove** method.

Remaining MongoDB methods **findOne, save, limit, skip, sort** etc. works same as explained above.