**Aim:** - Create MongoDB database with the following Data types-String, Integer, Boolean, double, min/max keys, arrays, timestamp, object, Null, symbol, date, object ID, Binary data, Code, Regular Expression

**Learning outcome:** - Able to configure embedded databases with different web pages using MongoDB.

#### Requirement of Hardware & Software: -

- 1 Working PC.
- 2 Windows Operating System.
- 3 Xampp server and also PHP.
- 4 MongoDB shell and any browser.

#### **Procedure: -**

Open your MongoDB Shell and Please enter a MongoDB connection string

Then after write code.

#### Step1:-

Create database & Table.

After Insert data.

#### Code: -

db.student.insert({Name:"Rakesh Kumar",Age:21})

### **Screenshot of code & Output:**

```
The monitoring data will be available on a MongoDB website with a unique URL accessible to you and anyone you share the URL with. MongoDB may use this information to make product improvements and to suggest MongoDB products and deployment options to you.

To enable free monitoring, run the following command: db.enableFreeMonitoring()
To permanently disable this reminder, run the following command: db.disableFreeMonitoring()

**Test's show db**
**MongoshInvalidInputError: [COMMON-10001] 'db' is not a valid argument for "show".

**test's show db **
**MongoshInvalidInputError: [COMMON-10001] 'db' is not a valid argument for "show".

**test's show db **
**BongoshInvalidInputError: [COMMON-10001] 'db' is not a valid argument for "show".

**test's show db **
**BongoshInvalidInputError: [COMMON-10001] 'db' is not a valid argument for "show".

**test's show db **
**BongoshInvalidInputError: [COMMON-10001] 'db' is not a valid argument for "show".

**test's show db **
**test's show db **
**BongoshInvalidInputError: [COMMON-10001] 'db' is not a valid argument for "show".

**test's show db **
**test's
```

#### Step2:

#### **Code of multiple data add:**

```
db.student.insert([{_id:2,Name:"Raushan
Kumar",Age:22,Course:"ADIT"},{_id:3,Name:"Priyanka
Gupta",Age:24,Course:"ADIT"},{_id:4,Name:"Amit
Kumar",Age:28,Course:"ADIT"},{_id:5,Name:"Raju
Kumar",Age:23,Course:"ADIT"}])
```

# **Output and Screenshot of code**

3 Aim: - Insert Document in database.

**Learning outcome:** - Able to configure embedded databases with different web pages using MongoDB.

#### Requirement of Hardware & Software: -

- 1 Working PC.
- 2 Windows Operating System.
- 3 Xampp server and also PHP.
- 4 MongoDB shell and any browser.

#### **Procedure: -**

Open your Visual studio code and Please enter a MongoDB connection code

Then after write code.

#### Step1:

# Code: -

```
<?php
//connecting to database
if($con=new
MongoDB\Driver\Manager("mongodb://localhost:27017")) echo
"Database Connected";

//creating document as array
$doc=array("_id"=>"1", "Name"=>"Rakesh", "Age"=>"21",
"Location"=>"India");
//creating write database object
$single_insert=new MongoDB\Driver\BulkWrite();
if($single_insert->insert($doc)) //preparing query statement for insert
```

```
echo "<br/>br>Document Insert Successfully Ready";<br/>
if($con->executeBulkWrite("ibm.student", $single_insert))<br/>
//executing write query<br/>
echo "<br/>br>Document Inserted Successfullly";
```

?>

#### **Screenshot of code:**

```
# connection.php

| Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Connection.php | Co
```

# Step2:

# **Output of code:**

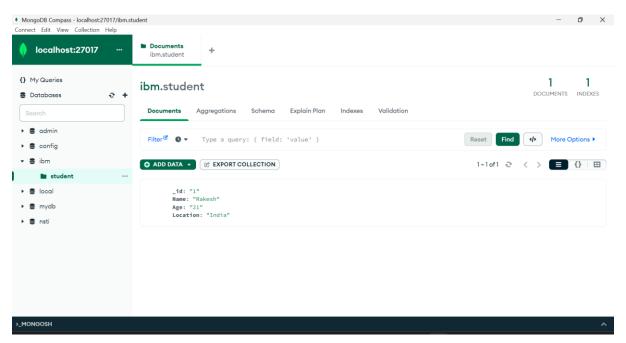


# Database Connected Document Insert Successfully Ready Document Inserted Successfully

#### Step2:

Open the mongodb compass and show the data

# **Inserting Data of databases of screenshot**



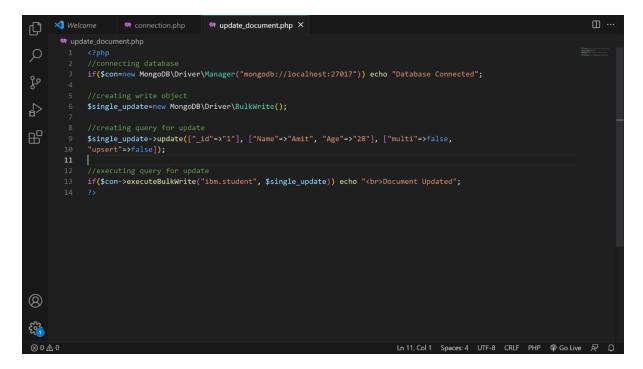
4 Aim: - Insert Document in database. **Learning outcome: -** Able to configure embedded databases with different web pages using MongoDB. Requirement of Hardware & Software: -1 Working PC. 2 Windows Operating System. 3 Xampp server and also PHP. 4 MongoDB shell and any browser. **Procedure: -**Open your Visual studio code and Please enter a MongoDB connection code

Then after write code.

#### Step1:

```
Code: -
<?php
//connecting database
if($con=new
MongoDB\Driver\Manager("mongodb://localhost:27017")) echo
"Database Connected";
//creating write object
$single update=new MongoDB\Driver\BulkWrite();
//creating query for update
$single_update->update(["_id"=>"1"], ["Name"=>"Amit",
"Age"=>"28"], ["multi"=>false,
"upsert"=>false]);
//executing query for update
if($con->executeBulkWrite("ibm.student", $single_update)) echo
"<br/>br>Document Updated";
?>
```

#### **Screenshot of code:**



#### Step2:

# **Output of code:**



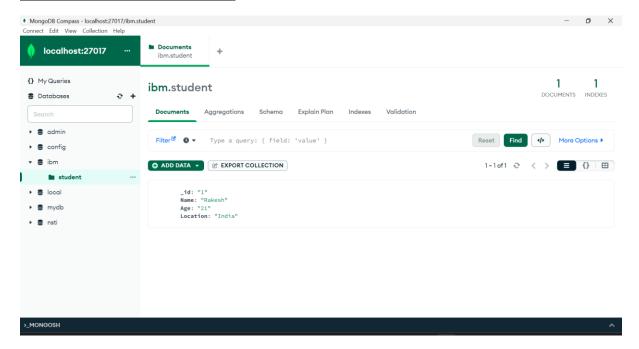
# Database Connected Document Updated

#### Step3:

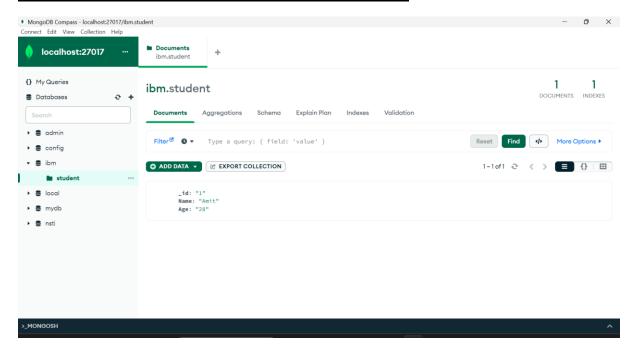
Open the mongodb compass and show the data

**Inserting Data of databases of screenshot** 

# **Before submit code**



# Then after submit code in database



5 Aim: - Delete Document in database.

**Learning outcome: -** Able to configure embedded databases with different web pages using MongoDB.

# Requirement of Hardware & Software: -

- 1 Working PC.
- 2 Windows Operating System.
- 3 Xampp server and also PHP.
- 4 MongoDB shell and any browser.
- 5 PHP-MongoDB driver 8.0.1

#### **Procedure: -**

Open your Visual studio code and Please enter a MongoDB connection code

Then after write code.

#### Step1:

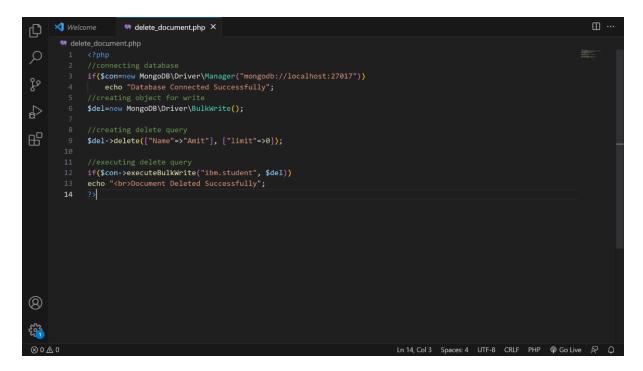
#### Code: -

```
<?php
//connecting database
if($con=new
MongoDB\Driver\Manager("mongodb://localhost:27017"))
    echo "Database Connected Successfully";
//creating object for write
$del=new MongoDB\Driver\BulkWrite();

//creating delete query
$del->delete(["Name"=>"Amit"], ["limit"=>0]);

//executing delete query
if($con->executeBulkWrite("ibm.student", $del))
echo "<br/>br>Document Deleted Successfully";
?>
```

# **Screenshot of code:**



#### Step2:

# **Output of code:**



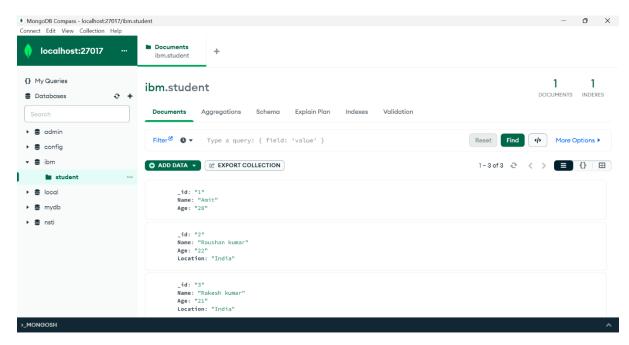
Database Connected Successfully Document Deleted Successfully

# Step3:

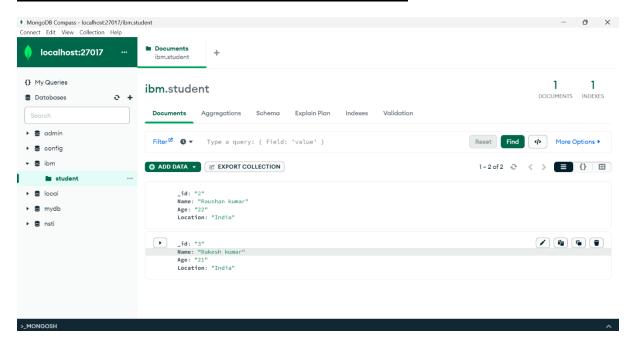
Open the mongodb compass and show the data

**Inserting Data of databases of screenshot** 

# **Before submit code**



# Then after submit code in database



**6** Aim: - Project Document in database.

**Learning outcome:** - Able to configure embedded databases with different web pages using MongoDB.

# Requirement of Hardware & Software: -

- 1 Working PC.
- 2 Windows Operating System.
- 3 Xampp server and also PHP.
- 4 MongoDB shell and any browser.
- 5 PHP-MongoDB driver 8.0.1

#### **Procedure: -**

Open your Visual studio code and Please enter a MongoDB connection code

Then after write code.

#### Step1:

#### Code: -

```
<?php
//connecting to database
if($con=new
MongoDB\Driver\Manager("mongodb://localhost:27017"))
  echo "Database Connected";
//defining projection filter
$filter=["Name"=>"Rakesh kumar"];
$option=[]; //leaving options blank
$read=new MongoDB\Driver\Query($filter, $option); //creating
query
$single_user=$con->executeQuery("ibm.student", $read);
//executing query
foreach($single user as $user){
  //foreach loop for traversing result displaying it
echo "<br/>str>".$user->Name." is ".$user->Age." years old";
}
?>
```

# **Screenshot of code:**

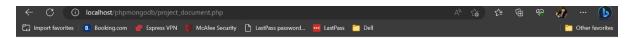
```
II ...
     ⋈ Welcome
                   project_document.php ×
      project_document.php
          if($con=new MongoDB\Driver\Manager("mongodb://localhost:27017"))
            echo "Database Connected";
          //defining projection filter
       6 $filter=["Name"=>"Rakesh kumar"];
       7  $option=[]; //leaving options blank
       HP.
       9 $single_user=$con->executeQuery("ibm.student", $read); //executing quer
       10 foreach($single_user as $user){
           //foreach loop for traversing result displaying it
       echo "<br>".$user->Name." is ".$user->Age." years old";
       13 }
14 ?>
⊗ 0 △ 0
                                    Ln 14, Col 3 Spaces: 4 UTF-8 CRLF PHP P Go Live 🔊 🚨
```

#### Step2:

#### Go to browser search

Localhost/phpmongodb/project\_document.php

# **Output of code:**



Database Connected Rakesh kumar is 21 years old

**7** Aim: - Create a MongoDB query to display all the document in the collection data (Trainees DATA). Learning outcome: - Able to configure embedded databases with different web pages using MongoDB. Requirement of Hardware & Software: -1 Working PC. 2 Windows Operating System. 3 Xampp server and also PHP. 4 MongoDB shell and any browser. 5 PHP-MongoDB driver 8.0.1 **Procedure: -**

Open your Visual studio code and Please enter a MongoDB connection code

Then after write code.

#### Step1:

```
Code: -
<?php
//connecting to database
if($con=new
MongoDB\Driver\Manager("mongodb://localhost:27017")) echo
"Database
Connected<br><br>";
$filter=[]; //no filter
$option=[]; //no options
$read=new MongoDB\Driver\Query($filter, $option); //creating
query
$single user=$con->executeQuery("ibm.student", $read);
//executing query
//creating HTML table for displaying data
echo "<table border=3 cellspacing=5
cellpadding=7><thead>IDNameCertificate
No.CourseStart DateEnd
Date</thead>";
foreach($single user as $user){ //parsing through results in loop
  echo "";
```

```
echo "".$user->_id."".$user->Name."".$user->Certificate_NO."".$user->Course."".$user->Start_Date."".$user->End_Date;} //end of loop for parsing echo ""; //end of table ?>
```

#### **Screenshot of code:**

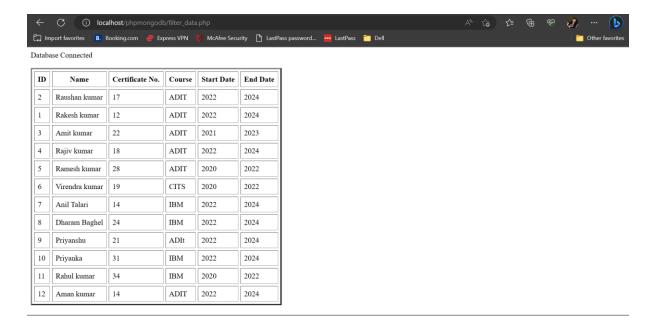
```
💏 filter_data.php 🗙
                                                                                                   □ …
      filter_data.php
            //connecting to database
            if($con=new MongoDB\Driver\Manager("mongodb://localhost:27017")) echo "Database
           $filter=[]; //no filter
           $option=[]; //no options
₫
           $read=new MongoDB\Driver\Query($filter, $option); //creating query
           $single_user=$con->executeQuery("ibm.student", $read); //executing query
R
           //creating HTML table for displaying data
echo "
           cellpadding=7><thead>IDNameCertificate No.CourseStart DateEnd
            foreach($single_user as $user){ //parsing through results in loop
            echo "".$user->_id."".$user->Name."".$user->Certificate_NO."".
            $user->Course."".$user->Start_Date."".$user->End_Date;} //end of loop for
            echo ""; //end of table
(2)
                                                      Ln 11, Col 40 Spaces: 4 UTF-8 CRLF PHP 🕢 Port : 5500 🔊 🚨
```

#### Step2:

#### Go to browser search

Localhost/phpmongodb/project\_document.php

#### **Output of code:**



**8 Aim: -** Create a MongoDB query to display the fields id, trainee name, Lab name Certificate No., course title, course starting date, course ending date for all the documents in the collection trainees data.

**Learning outcome: -** Able to configure embedded databases with different web pages using MongoDB.

#### Requirement of Hardware & Software: -

- 1 Working PC.
- 2 Windows Operating System.
- 3 Xampp server and also PHP.
- 4 MongoDB shell and any browser.
- 5 PHP-MongoDB driver 8.0.1

#### **Procedure: -**

Open your Visual studio code and Please enter a MongoDB connection code

Then after write code.

#### Step1:

#### Code: -

<?php

//connecting to database

if(\$con=new

MongoDB\Driver\Manager("mongodb://localhost:27017")) echo

"Database

Connected<br><br>";

```
$filter=[]; //no filter
$option=[]; //no options
$read=new MongoDB\Driver\Query($filter, $option); //creating
query
$single user=$con->executeQuery("ibm.student", $read);
//executing query
//creating HTML table for displaying data
echo "<table border=3 cellspacing=5
cellpadding=7><thead>IDNameLabCertificate
No.CourseStart DateEnd
Date</thead>";
foreach($single user as $user){ //parsing through results in loop
 echo "";
echo "".$user-> id."".$user->Name."".$user-
>Lab."".$user->Certificate_NO."".$user-
>Course."".$user->Start_Date."".$user->End_Date;} //end of
loop for parsing
echo ""; //end of table
?>
```

#### **Screenshot of code:**

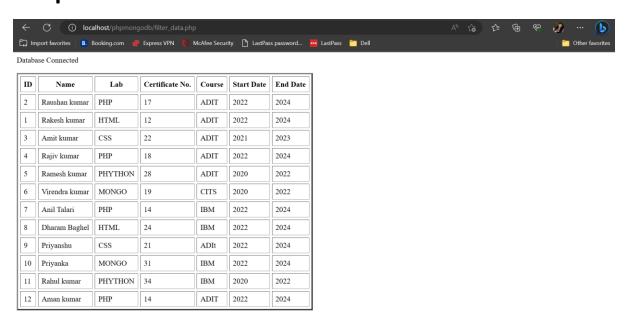
```
□ ...
     filter_data.php
Q
            if($con=new MongoDB\Driver\Manager("mongodb://localhost:27017")) echo "Database
مړ
            $filter=[]; //no filter
            $option=[]; //no options
Z
S
            $read=new MongoDB\Driver\Query($filter, $option); //creating query
            $single_user=$con->executeQuery("ibm.student", $read); //executing query
B
           //creating HTML table for displaying data
echo "
            foreach($single_user as $user){ //parsing through results in loop
           echo "".$user->_id."".$user->Name."".$user->Lab."".$user->Certificate_NO."".$user->Course.
(8)
£53
⊗ 0 ▲ 0
                                                                               Ln 18, Col 1 Spaces: 4 UTF-8 CRLF PHP @ Go Live 저
```

#### Step2:

#### Go to browser search

Localhost/phpmongodb/project\_document.php

# **Output of code:**



**9 Aim:** - Create a MongoDB query to display the fields id, trainee name, lab name, Certificate No., course name, course starting date, the course ending date for all the documents in the collection trainee's data, but excluding lab name

**Learning outcome: -** Able to configure embedded databases with different web pages using MongoDB.

# Requirement of Hardware & Software: -

- 1 Working PC.
- 2 Windows Operating System.
- 3 Xampp server and also PHP.
- 4 MongoDB shell and any browser.

5 PHP-MongoDB driver 8.0.1

#### **Procedure: -**

Open your Visual studio code and Please enter a MongoDB connection code

Then after write code.

#### Step1:

```
Code: -
<?php
//connecting to database
if($con=new
MongoDB\Driver\Manager("mongodb://localhost:27017")) echo
"Database
Connected<br><br>";
$filter=[]; //no filter
$option=[]; //no options
$read=new MongoDB\Driver\Query($filter, $option); //creating
query
$single_user=$con->executeQuery("ibm.student", $read);
//executing query
//creating HTML table for displaying data
echo "<table border=3 cellspacing=5
cellpadding=7><thead>IDNameLabCertificate
No.CourseStart DateEnd
Date</thead>";
foreach($single_user as $user){ //parsing through results in loop
```

```
echo "";
echo "".$user->_id."".$user->Name."".$user-
>Lab."".$user->Certificate_NO."".$user-
>Course."".$user->Start_Date."".$user->End_Date;} //end of loop for parsing
echo ""; //end of table
?>
```

#### **Screenshot of code:**

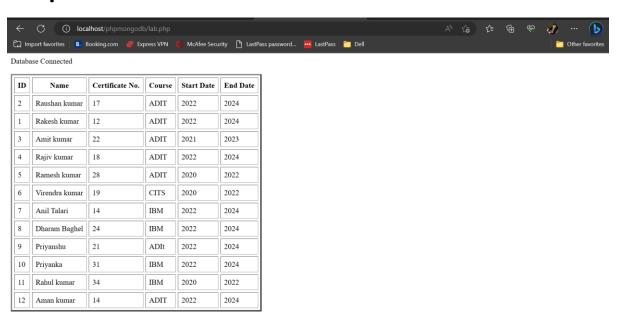
```
👫 lab.php X
      👫 lab.php
Q
           if($con=new MongoDB\Driver\Manager("mongodb://localhost:27017"))
ရှိ
           $filter=[];
\triangleleft_{\tilde{\mathbf{x}}}
           $option=[];
HP.
           $read=new MongoDB\Driver\Query($filter, $option);
          $single_user=$con->executeQuery("ibm.student", $read);
           echo "<thead>IDNameCertificate
           No.CourseStart DateEnd Date</thead>";
       15 foreach($single_user as $user){ //parse through results using loop
          echo "";
echo "".$user->_id."".$user->Name."".$user->Certificate_NO."".$user->Co
            ->Start_Date."".$user->End_Date;
(8)
           //end of loop
           echo ""; //end of table
સ્કુ
                                                      Ln 17, Col 49 Spaces: 4 UTF-8 CRLF PHP @ Go Live & Q
```

# Step2:

#### Go to browser search

Localhost/phpmongodb/project\_document.php

# **Output of code:**



**10** Aim: - Create a MongoDB query to display all the trainees who attended courses on PHP.

**Learning outcome: -** Able to configure embedded databases with different web pages using MongoDB.

#### Requirement of Hardware & Software: -

- 1 Working PC.
- 2 Windows Operating System.
- 3 Xampp server and also PHP.
- 4 MongoDB shell and any browser.
- 5 PHP-MongoDB driver 8.0.1

#### **Procedure: -**

Open your Visual studio code and Please enter a MongoDB connection code

Then after write code.

#### Step1:

# Code: -

```
<?php
//connecting to database
if ($con = new
MongoDB\Driver\Manager("mongodb://localhost:27017")) {
  echo "Database Connected<br><";
}</pre>
```

```
$filter = ['Lab' => 'PHP']; //no filters
$option = []; //options to eliminate lab column from result
$read = new MongoDB\Driver\Query($filter, $option); //creating
query
$single user = $con->executeQuery("ibm.student", $read);
//executing query
//creating table view without column for lab
echo "<table border=3 cellspacing=5
cellpadding=7><thead>IDNameLabCertificate
No.CourseStart DateEnd Date</thead>";
foreach($single_user as $user){ //parsing results in loop
  echo "";
  echo "".$user-> id."".$user->Name."".$user-
>Lab."".$user->Certificate NO."".$user-
>Course."".$user->Start Date."".$user-
>End Date."";
} //end loop
echo ""; //end table
?>
```

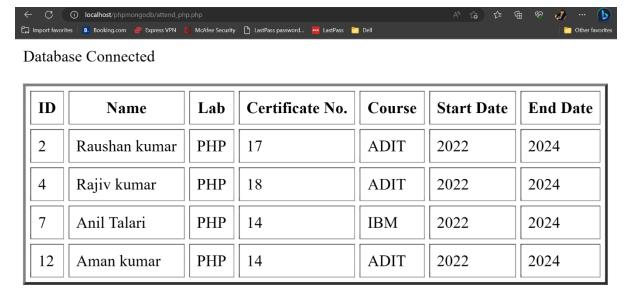
#### **Screenshot of code:**

#### Step2:

#### Go to browser search

Localhost/phpmongodb/project\_document.php

# **Output of code:**



**11 Aim:** - Create a MongoDB query to display the 1<sup>st</sup> batch trainees of PHP

**Learning outcome:** - Able to configure embedded databases with different web pages using MongoDB.

# Requirement of Hardware & Software: -

- 1 Working PC.
- 2 Windows Operating System.
- 3 Xampp server and also PHP.
- 4 MongoDB shell and any browser.
- 5 PHP-MongoDB driver 8.0.1

#### **Procedure: -**

Open your Visual studio code and Please enter a MongoDB connection code

Then after write code.

#### Step1:

#### Code: -

```
<?php
//connecting to database
if($con=new
MongoDB\Driver\Manager("mongodb://localhost:27017")) echo
"Database
Connected<br><br>";
$filter = ['Lab' => 'PHP', 'Start Date' => '2018'];
//no filters
$option=[]; //options to eliminate lab column from result
$read=new MongoDB\Driver\Query($filter, $option); //creating
query
$single user=$con->executeQuery("ibm.student", $read);
//executing query
//creating table view without column for lab
echo "<table border=3 cellspacing=5
cellpadding=7><thead>IDNameLabCertificate
No.CourseStart DateEnd Date</thead>";
foreach($single user as $user){ //parsing results in loop
```

```
echo "";
echo "".$user->_id."".$user->Name."".$user->Lab."".$user->Certificate_NO."".$user->Course."".$user->Course."".$user->Start_Date."".$user->End_Date;
} //end loop
echo ""; //end table
?>
```

#### **Screenshot of code:**

# Step2:

#### Go to browser search

Localhost/phpmongodb/project\_document.php

# **Output of code:**



Database Connected

| ID | Name        | Lab | Certificate No. | Course | Start Date | End Date |
|----|-------------|-----|-----------------|--------|------------|----------|
| 4  | Rajiv kumar | PHP | 18              | ADIT   | 2018       | 2020     |
| 7  | Anil Talari | PHP | 14              | IBM    | 2018       | 2020     |

**12 Aim:** - Create a MongoDB query to display the 1<sup>st</sup> batch trainees of PHP

**Learning outcome: -** Able to configure embedded databases with different web pages using MongoDB.

#### Requirement of Hardware & Software: -

- 1 Working PC.
- 2 Windows Operating System.
- 3 Xampp server and also PHP.
- 4 MongoDB shell and any browser.
- 5 PHP-MongoDB driver 8.0.1

#### **Procedure: -**

Open your Visual studio code and Please enter a MongoDB connection code

Then after write code.

#### Step1:

#### Code: -

```
<?php
//connecting to database
if($con=new
MongoDB\Driver\Manager("mongodb://localhost:27017")) echo
"Database
Connected<br><";</pre>
```

```
$filter = ['Lab' => 'PHP', 'Start Date' => '2022'];
//no filters
$option=[]; //options to eliminate lab column from result
$read=new MongoDB\Driver\Query($filter, $option); //creating
query
$single user=$con->executeQuery("ibm.student", $read);
//executing query
//creating table view without column for lab
echo "<table border=3 cellspacing=5
cellpadding=7><thead>IDNameLabCertificate
No.CourseStart DateEnd Date</thead>";
foreach($single user as $user){ //parsing results in loop
echo "";
echo "".$user-> id."".$user->Name."".$user-
>Lab."".$user->Certificate_NO."".$user-
>Course."".$user
->Start Date."".$user->End Date;
} //end loop
echo ""; //end table
?>
```

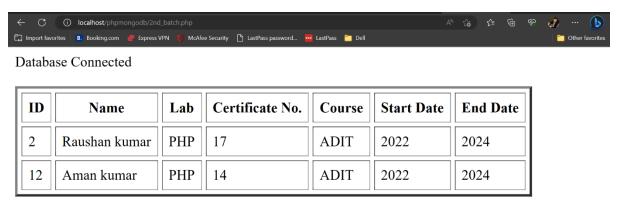
#### **Screenshot of code:**

```
□ ...
      * 2nd_batch.php ×
       2nd_batch.php
Q
             //connecting to database if($con=new MongoDB\Driver\Manager("mongodb://localhost:27017")) echo "Database
مړ
             $filter = ['Lab' => 'PHP', 'Start_Date' => '2022'];
$
             $read=new MongoDB\Driver\Query($filter, $option); //creating query
            $single_user=$con->executeQuery("ibm.student", $read); //executing query
            //creating table view without column for lab
echo "<thead>IDNameLabCertificate
No.CourseStart DateEnd Date
            foreach($single_user as $user){ //parsing results in loop
        15 echo "".$user->_id."".$user->Name."".$user->Lab."".$user->Certificate_NO."".$user->Course."
             "".$user
(8)
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                                                                                     Ln 19, Col 3 Spaces: 4 UTF-8 CRLF PHP @ Go Live 🔊
```

# Step2:

# Go to browser search

Localhost/phpmongodb/project\_document.php



**13 Aim:** - Create a MongoDB query to find the course where maximum trainees attended

**Learning outcome:** - Able to configure embedded databases with different web pages using MongoDB.

# Requirement of Hardware & Software: -

- 1 Working PC.
- 2 Windows Operating System.
- 3 Xampp server and also PHP.
- 4 MongoDB shell and any browser.
- 5 PHP-MongoDB driver 8.0.1

### **Procedure: -**

Open your Visual studio code and Please enter a MongoDB connection code

Then after write code.

### Step1:

#### Code: -

```
<?php
//connecting to database
if($con=new
MongoDB\Driver\Manager("mongodb://localhost:27017"))
echo "Database Connected<br><br>";
//no filter or options
$filter=[];
$option=[];
$ibm=0; //counetr for IBM course
$adit=0; //counter for ADIT course
$read=new MongoDB\Driver\Query($filter, $option); //create query
$single_user=$con->executeQuery("ibm.student", $read); //execute
query
foreach($single user as $user){ //loop for parsing all data
if($user->Course=='ADIT')
$ibm++; //counter update if course is IBM
else $adit++; //counter update if course is ADIT
```

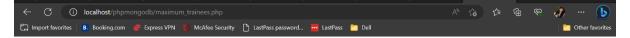
```
if($ibm>$adit) echo('Maximum Trainees attended course IBM');
//display if IBM is max
else echo('Maximum Trainees attended course ADIT'); //display if
ADIT is max
?>
```

# **Screenshot of code:**

# Step2:

#### Go to browser search

Localhost/phpmongodb/project\_document.php



# **Database Connected**

Maximum Trainees attended course ADIT

**14 Aim:** - Create a MongoDB query to find the course where maximum trainees attended

**Learning outcome: -** Able to configure embedded databases with different web pages using MongoDB.

### Requirement of Hardware & Software: -

- 1 Working PC.
- 2 Windows Operating System.
- 3 Xampp server and also PHP.
- 4 MongoDB shell and any browser.
- 5 PHP-MongoDB driver 8.0.1

#### **Procedure: -**

Open your Visual studio code and Please enter a MongoDB connection code

Then after write code.

#### Step1:

#### Code: -

```
<?php
//connecting to database
if($con=new
MongoDB\Driver\Manager("mongodb://localhost:27017"))
echo "Database Connected<br>>";
$filter=[]; //no filters
```

```
$option=[ 'sort'=>['Lab'=>1] ]; //sorting options on course name
$read=new MongoDB\Driver\Query($filter, $option); //create query
$single_user=$con->executeQuery("ibm.student", $read); //execute
query
//create table view
echo "<table border=3 cellspacing=5
cellpadding=7><thead>IDNameLabCertificate
No.CourseStart
DateEnd Date</thead>";
foreach($single user as $user){ //parsing results though loop
echo "";
echo
"".$user-> id."".$user->Name."".$user-
>Lab."".$user->Certificate_NO."".$user-
>Course."".$user->Start_Date."".$user->End_Date;
} //end loop
echo ""; //end table
?>
```

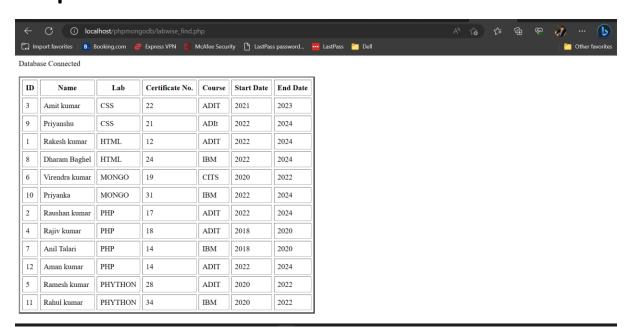
### **Screenshot of code:**

```
□ …
                    Q
                                          //connecting to database if($con=new MongoDB\Driver\Manager("mongodb://localhost:27017"))
လို
                                           echo "Database Connected<br><br>";
                                           $filter=[]; //no filters
$option=[ 'sort'=>['Lab'=""]
₽
                                            $read=new MongoDB\Driver\Query($filter, $option); //create query
                                           $single_user=$con->executeQuery("ibm.student", $read); //execute query
品
                                         //create table view
echo "<thead>LabLabCertificate No.CourseStart
                                          foreach($single_user as $user){ //parsing results though loop
                                      "".$user->Certificate_NO."".$user->Course."".$user->Certificate_NO."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->Course."".$user->
                                      echo ""; //end table
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```

### Step2:

# Go to browser search

Localhost/phpmongodb/project\_document.php



**15** Aim: - Create a MongoDB query to find the course where maximum trainees attended

**Learning outcome: -** Able to configure embedded databases with different web pages using MongoDB.

# Requirement of Hardware & Software: -

- 1 Working PC.
- 2 Windows Operating System.
- 3 Xampp server and also PHP.
- 4 MongoDB shell and any browser.
- 5 PHP-MongoDB driver 8.0.1

### **Procedure: -**

Open your Visual studio code and Please enter a MongoDB connection code

Then after write code.

### Step1:

#### Code: -

```
<?php
//connecting to database
if($con=new MongoDB\Driver\Manager("mongodb://localhost:27017"))
echo "Database Connected<br><br>";
$filter=[]; //no filters
$option=[ 'sort'=>['Course'=>1] ]; //sorting options on course name
$read=new MongoDB\Driver\Query($filter, $option); //create query
$single_user=$con->executeQuery("ibm.student", $read); //execute query
//create table view
echo "<table border=3 cellspacing=5
cellpadding=7><thead>IDNameLabCertificate
No.CourseStart
DateEnd Date</thead>":
foreach($single_user as $user){ //parsing results though loop
echo "";
echo "".$user->_id."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".$user->Lab."".
>Certificate NO."".$user->Course."".$user->Start Date."".$user-
>End_Date;
} //end loop
```

echo ""; //end table

?>

### **Screenshot of code:**

```
e course_wise.php X
      course_wise.php
            if($con=new MongoDB\Driver\Manager("mongodb://localhost:27017"))
လှု
           echo "Database Connected<br><br>";
           $filter=[ ]; //no filters
           $option=[ 'sort'=>['Course'=>1[] ]; //sorting options on course name
           $read=new MongoDB\Driver\Query($filter, $option); //create query
          $single_user=$con->executeQuery("ibm.student", $read); //execute query
          //create table view
           echo "<table border=3 cellspacing=5
            cellpadding=7><thead>IDNameLabCertificate No.CourseStart
           foreach($single_user as $user){ //parsing results though loop
       echo "".$user->_id."".$user->Name."".$user->Lab."".
            $user->Certificate_NO."".$user->Course."".$user->Start_Date."".
            $user->End_Date;
            } //end loop
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```

# Step2:

### Go to browser search

Localhost/phpmongodb/project\_document.php



Database Connected

ID	Name	Lab	Certificate No.	Course	Start Date	End Date
2	Raushan kumar	PHP	17	ADIT	2022	2024
1	Rakesh kumar	HTML	12	ADIT	2022	2024
3	Amit kumar	CSS	22	ADIT	2021	2023
4	Rajiv kumar	PHP	18	ADIT	2018	2020
5	Ramesh kumar	PHYTHON	28	ADIT	2020	2022
9	Priyanshu	CSS	21	ADIT	2022	2024
12	Aman kumar	PHP	14	ADIT	2022	2024
6	Virendra kumar	MONGO	19	CITS	2020	2022
7	Anil Talari	PHP	14	IBM	2018	2020
8	Dharam Baghel	HTML	24	IBM	2022	2024
10	Priyanka	MONGO	31	IBM	2022	2024
11	Rahul kumar	PHYTHON	34	IBM	2020	2022