

Ex.No. 1 Program to create Student registration form**Aim:**

To write a program to create Student registration form.

Program:**Ex1.html**

```
<html>
<head>
<title> Student Registration Form</title>
</head>
<body>
<h3>Student Registration Form</h3>
<form id="myform" name="myform" method="POST"
action="ex1.php">
<table>
<tr>
<td>Student Name:</td>
<td><input type="text" name="name"></td></tr>
<tr>
<td>Roll No:</td>
<td><input type="text" name="rollno"></td></tr>
<tr>
<td>Course:</td>
<td><input type="text" name="course"></td>
```

```
</tr>

<tr><td>College:</td>
    <td><input type="text" name="colg"></td></tr>
    <tr><td><input type="submit" value="Register"></td>
    <td><input type="reset"></td>
</tr>

</table>
</form>
</body>
</html>
```

Ex1.php

```
<html>
<head>
<title> Student Registration Form</title>
</head>
<body>
<?php
    $name = $_POST["name"];
    $roll = $_POST["rollno"];
    $course = $_POST["course"];
    $colg = $_POST["colg"];
?>
<h4>Registration Successful</h4>
```

Name:

```
<?php echo $name; ?><br>
```

Roll No:

```
<?php echo $roll; ?><br>
```

Course:

```
<?php echo $course; ?><br>
```

College:

```
<?php echo $colg; ?><br>
```

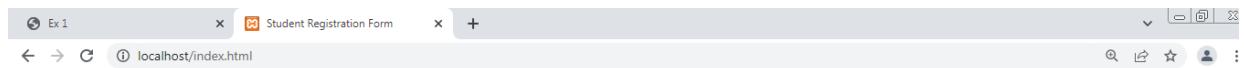
```
</body>
```

```
</html>
```

Result :

Thus a webpage is designed to get student details and displayed using PHP.

OUTPUT EX1



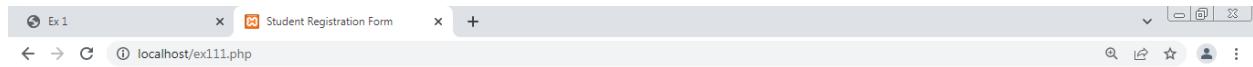
Student Registration Form

Student Name:

Roll No:

Course:

College:



Registration Successful

Name: anand
Roll No: 101
Course: DCE
College: tngptc

Ex.No. 2

Program to Perform EB Bill Calculation.

Aim:

To write a program to perform EB bill calculation

Program:**Ex2.html**

```
<html>
<head>
<title>
EB Bill Calculation</title>
</head>
<body>
<h3>EB Bill Calculation</h3>
<form name="ebbillform" method="POST" action="ex2.php">
<table>
<tr>
<td>Service Number:</td>
<td><input type="text" align="right" name="serno"></td>
</tr>
<tr>
<td>Name:</td>
<td><input type="text" name="name" ></td>>
</tr>
<tr>
<td>Units Consumed:</td>
```

```
<td><input type="text" name="unit"></td>
</tr>
<tr>
<td><input type="submit" value="Calculate"></td>
<td><input type="reset"></td>
</tr>
</table>
</form>
</body>
</html>
```

Ex2.php

```
<html>
<head>
<title>
EB Bill Calculation</title></head>
<body>
<?php
$serviceno = $_POST["serno"];
$name = $_POST["name"];
$unit = $_POST["unit"];
$serv=0;
$total=0;
$rate=0;
```

```
if($unit>0 && $unit<=100)
{
    $rate = 0;
    $serv = 0;
    $total = 0;
}

else if($unit>100 && $unit<=200)
{
    $rate = 1.5 * ($unit-100);
    $serv = 20;
    $total = $rate + $serv;
}

else if($unit>200 && $unit<=500)
{
    $rate = 2 * ($unit-100);
    $serv = 30;
    $total = $rate + $serv;
}

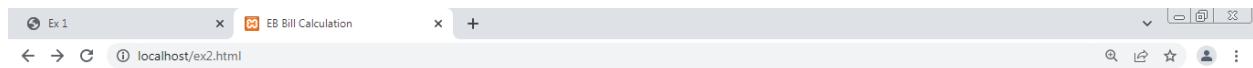
else
{
    $rate = 6 * ($unit-100);
    $serv = 50;
    $total = $rate + $serv;
```

```
    }  
?  
<h4>EB Bill Generated for Service No. <?php echo $serviceno;  
?></h4>  
  
Name:  
<?php echo $name; ?><br>  
  
Units:  
<?php echo $unit; ?><br>  
  
Rate:  
Rs. <?php echo $rate ?><br>  
  
Service:  
Rs. <?php echo $serv ?><br>  
  
Total:  
Rs. <?php echo $total ?><br>  
</body>  
</html>
```

Result :

Thus a webpage is designed using php to perform EB bill Calculation.

Output :



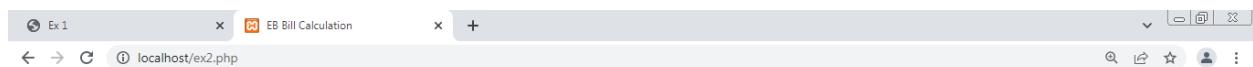
EB Bill Calculation

>

Service Number:

Name:

Units Consumed:



EB Bill Generated for Service No. 101

Name: anand
Units: 150
Rate: Rs. 75
Service: Rs. 20
Total: Rs. 95

Ex.No.3 Program to perform Student grade manipulation

Aim :

To write a program to perform Student grade manipulation

Program :

Ex3.html

```
<html>
<head>
<title>
Student Grade Manipulation </title></head>
<body>
<h3>Student Grade Manipulation</h3>
<form name="gradeform" method="POST" action="Ex3.php">
    <table>
        <tr><td>Register No:</td>
            <td><input type="text" name="regno"></td>
        </tr>
        <tr>
            <td>Name:</td>
            <td><input type="text" name="name"></td>
        </tr>
        <tr>
            <td> Subject1 Marks:</td>
            <td><input type="text" name="sub1"></td></tr>
```

```

<tr>
    <td>Subject2 Marks: </td>
    <td><input type="text" name="sub2"></td>
</tr>

<tr>
    <td>Subject3 Marks:</td>
    <td><input type="text" name="sub3"></td>
</tr>

<tr>
    <td><input type="submit" value="Mark Sheet"></td>
    <td><input type="reset"></td>
</tr>

</table>
</form>
</body>
</html>

```

Ex3.php

```

<html>
    <head>
        <title>
            Student Grade Manipulation </title></head>
    <body>
        <?php

```

```
function grade($mark)
{
    $opt = floor($mark/10);
    $grd = "";
    switch($opt)
    {
        case 0:
        case 1:
        case 2:
        case 3:
        case 4:
            $grd = "F";
            break;
        case 5:
            $grd = "E";
            break;
        case 6:
            $grd = "D";
            break;
        case 7:
            $grd = "C";
            break;
        case 8:
```

```
$grd = "B";
break;

case 9:
$grd = "A";
break;

case 10:
$grd = "S";
break;

}

return($grd);

}

$regno = $_POST["regno"];
$name = $_POST["name"];
$sub1 = $_POST["sub1"];
$sub2 = $_POST["sub2"];
$sub3 = $_POST["sub3"];
$total = $sub1 + $sub2 + $sub3;
if($sub1 >= 50 && $sub2 >= 50 && $sub3 >= 50)
{
$res = "PASS";
}
else
{
```

```
$res = "FAIL";  
}  
?>  
<h4>Mark Sheet</h4>  
Name: <?php echo $name;?><br>  
RegNo:<?php echo $regno;?><br><br>  
Subject  
Marks  
Grade<br>  
Subject1  
<?php  
echo $sub1." &nbsp;&nbsp;&nbsp;&nbsp;".grade($sub1);?><br>  
Subject2  
<?php  
echo $sub2." &nbsp;&nbsp;&nbsp;&nbsp;&nbsp;".grade($sub2); ?><br>  
Subject3  
<?php  
echo $sub3." &nbsp;&nbsp;&nbsp;&nbsp;&nbsp;".grade($sub3); ?><br>  
Total: <?php echo $total ?><br>  
Result: <?php echo $res ?>
```

Result :

Thus a webpage is designed using php to perform Student Grade Manipulation.

OUTPUT

Student Grade Manipulation

Register No:

Name:

Subject1 Marks:

Subject2 Marks:

Subject3 Marks:

Mark Sheet

Name: navi
RegNo:101

Subject Marks Grade

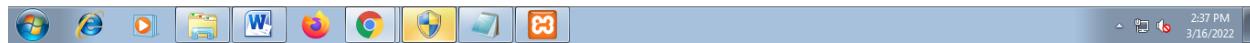
Subject1 50 E

Subject2 70 C

Subject3 80 B

Total: 200

Result: PASS



Ex.no :4

Program to process Array

Aim:

To write a program to process array using PHP.

Program:

Ex4.html

```
<html>
<body>
<h3>Array Processing(Largest among 5 numbers)</h3>
<form name="arrayform" method="POST" action="Ex4.php">
<p>Enter Array Elements</p>
    <input type="text" name="arr[]"><br>
    <input type="submit" value="Find Largest">
</form>
</body>
</html>
```

Ex4.php

```
<html>
<body>
<?php
```

```

$val = $_POST["arr"];
$larg=0;
foreach($val as $x)
{
if($x>$larg)
{
$larg = $x;
}
}

?>

<h3>Entered Array</h3>

<p>
<?php
for($i=0;$i<5;$i++)
echo $val[$i]." ";
?>
</p>

<p>Largest Values is <?php echo $larg; ?></p>
</body>
</html>

```

Result:

Thus a webpage is designed using PHP to perform Array Processing.

Output

Array Processing(Largest among 5 numbers)

Enter Array Elements

7
77
777
7777
777777

Entered Array

7 77 777 7777 777777

Largest Values is 777777

EX.NO.5 Program to perform String operations in PHP

Aim :

To write a program to perform String operations in PHP.

PROGRAM :

EX5.HTML

```
<html>
<body>
<h3>STRING MANIPULATION</h3>
<form name="String" method="POST" action="Ex5.php">
<input type="text" name="str">
<input type="submit" value="convert">
</form>
</body>
</html>
```

Ex5.php

```
<html>
<body>
<?php
$r=$_POST["str"];
$t="welcome";
echo("$r");
echo "<br>";
```

```
echo "String Length".strlen($r);
echo "<br>";
echo "Uppercase:".strtoupper($r);
echo "<br>";
echo "Lowercase:".strtolower($r);
echo "<br>";
echo "Word Count:".str_word_count($r);
echo "<br>";
echo "String Reverse:".strrev($r);
echo "<br>";
echo "String Position:".strpos("Hi welcome Student",
"Student");
echo "<br>";
echo "String Replace:".str_replace("3rd", "Shift", "Hello 3rd
computer students");
?>
</body>
</html>
```

Result:

Thus a webpage is designed using php to perform String Operations.

Ex.6**Program to create Book master form****Aim:**

To write a program to create Book master form.

Program:**Ex6.html**

```
<html>
<body>
<h3><u>Book Master Form</u></h3>

    Menu<br>

    <form name="bookmaster" method="POST" action="Ex6.php">

        Enter Book Details

        Book Name:
        <input type="text" name="book_name">

        Author Name:
        <input type="text" name="auth_name">

        Price:
        <input type="text" name="book_price">
        <input type="submit" value="Add Book">
        <input type="reset">
    </form>

    <a href="Ex6_view.php">View Books</a>

</body>
</html>
```

Ex6.php

```
<html>
<body>
<table>
<?php
    $bookname = $_POST["book_name"];
    $author = $_POST["auth_name"];
    $price = $_POST["book_price"];
    $filename = "books.txt";
    $file = fopen($filename, "a+");
    $text =
        "<tr><td>".$bookname."</td><td>".$author."</td><td>".$price."</td></tr>";
    fwrite($file,$text);
    echo "<h3><u>Details Successfully Added</u></h3>";
?
</table>
</body>
</html>
```

Ex6_view.php

```
<html>
<body>
```

```

<?php
$filename = "books.txt";
$file = fopen($filename, "a+");
$filesize = filesize( $filename );
$filetext = fread( $file, $filesize );
fclose( $file );

?>

<h3><u>Book Master Details</u></h3>
<a href="">View Books</a><br>
<table style="border: 2px solid black">
<tr>
<th>Book Name</th>
<th>Author Name</th>
<th>Price</th>
</tr>
<?php
echo $filetext;
?>
</table>
</body>
</html>

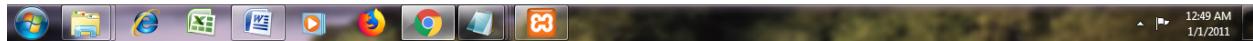
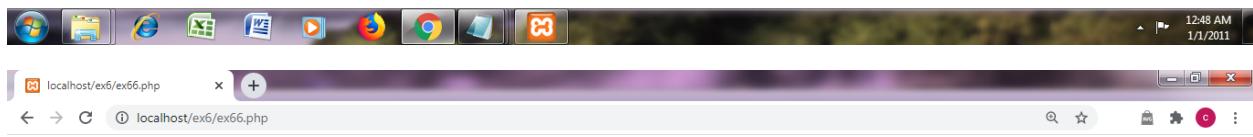
```

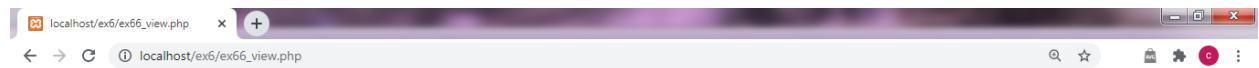
Result:

Thus a book master form was designed and verified using php .

OUTPUT:

A screenshot of a web browser window titled "localhost/ex6/ex66.html". The page displays a form titled "Book Master Form" with the following fields:
- A "Menu" link.
- Input fields for "Enter Book Details": Book Name (Java Programming), Author Name (Velmurugan.M), and Price (256).
- Buttons for "Add Book" and "Reset".
- A link labeled "View Books".





View Books

Book Name	Author Name	Price
Web Programming	Bala gurusamy	345
C Programming	Bala gurusamy	234
Java Programming	Velmurugan.M	256



Ex.7: Program to Perform Date and Time Functions

Aim :

To perform Date and Time operation using php.

Program:

```
<html>
<body>
<h3><u>Date Time Functions</u></h3>
TodaysDate(d-m-y):
<?php echo date("d-m-y"); ?>
<br>Todays Date:
<?php echo date("d M Y(l)"); ?>
<?php echo date("H:i:sa"); ?>
<br>Timestamp:
<?php echo time(); ?>
<br>Timezone:
<?php echo date_default_timezone_get(); ?>
<br>Timezone Set (Asia/Calcutta):
<?php
date_default_timezone_set("Asia/Calcutta");
echo date("H:i:sa");
?>
```

```
<br>Tomorrow's Date:  
<?php  
    $date = strtotime("tomorrow") ;  
    echo date("d-m-Y",$date);  
?  
<br>Next Sunday's Date:  
<?php  
    $date = strtotime("next monday") ;  
    echo date("d-m-Y",$date);  
?  
</body>  
</html>
```

Result:

Thus a webpage is designed using php perform Date and Time functions



Date Time Functions

Todays Date(d-m-y): 04-02-21
Todays Date: 04 Feb 2021(Thursday) 12:14:31pm
Timestamp: 1612437271
Timezone: Europe/Berlin
Timezone Set (Asia/Calcutta): 16:44:31pm
Tomorrow's Date: 05-02-2021
Next Sunday's Date: 08-02-2021



Ex.8**Program to Identify Browser using PHP****Aim :**

To write a program to Identify Browser using PHP

Program:**Browser.php**

```
<html>
<head>
<meta charset="utf-8">
<title>Browser Detection</title>
</head>
<body>
<?php
$useragent = $_SERVER['HTTP_USER_AGENT'];
$browser="";
if(strpos($useragent, 'Firefox') !== FALSE)
$browser = 'Mozilla Firefox';
elseif(strpos($useragent, 'Chrome') !== FALSE)
$browser = 'Google Chrome';
elseif(strpos($useragent, 'Opera Mini') !== FALSE)
$browser = "Opera Mini";
elseif(strpos($useragent, 'Opera') !== FALSE)
$browser = "Opera";
elseif(strpos($useragent, 'Safari') !== FALSE)
```

```
$browser = "Safari";  
elseif(strpos($useragent, 'MSIE') !== FALSE)  
    $browser = 'Internet explorer';  
elseif(strpos($useragent, 'Trident') !== FALSE) //For  
Supporting IE 11  
    $browser = 'Internet explorer';  
else  
    $browser = 'Something else';  
?>  
<h1><u>Browser Detection</u></h1>  
<P>Your Browser is <?php echo $browser; ?></P>  
</div>  
</body>  
</html>
```

Result :

Thus a webpage is designed using php identify the browser.



Browser Detection

Your Browser is Google Chrome



Ex.9**Railway Ticket Reservation Form****Aim:**

To write a program to perform Form validation in Railway ticket reservation.

Program :**Ex9.html**

```
<html>
<body>
    <h3><u>Railway Ticket Reservation</u></h3>
    <form method = "post" action = "Ex9.php">
        From:<input type = "text" name = "fromstation"><br>
        To:<input type = "text" name = "tostation"><br>
        Train No:<input type = "text" name = "trainno"><br>
        Date of Journey: <input type = "text" name = "joudate"><br>
        Name:<input type="text" name="name"><br>
        Age:<input type="text" name="age"><br>
        Gender:<input type="text" name="gender"><br>
        <input type = "submit" name = "submit" value = "Submit">
    </body>
</html>
```

Ex9.php

```
<html>
<body>
```

```
<?php  
if ($_SERVER["REQUEST_METHOD"] == "POST")  
{  
    if (empty($_POST["fromstation"]))  
    {  
        $fromsterr = "From Station is required";  
    }  
    else  
    {  
        $fromst = $_POST["fromstation"];  
    }  
    if (empty($_POST["tostation"]))  
    {  
        $tosterr = "To Station is required";  
    }  
    else  
    {  
        $tost = $_POST["tostation"];  
    }  
    if(empty($_POST["trainno"]))  
    {  
        $tnoerr = "Enter Train Number";  
    }  
}
```

```
else
{
    $trainno = $_POST["trainno"];
}

if (empty($_POST["joudate"]))
{
    $joudterr = "Type Journey Date";
}
else
{
    $joudate = $_POST["joudate"];
}

if(empty($_POST["name"]))
{
    $passerr = "Enter Name of Passenger";
}
else
{
    $name = $_POST["name"];
}

}
```

```

if(empty($fromsterr) and empty($tosterr) and empty($tnoerr) and
empty($joudterr) and empty($passerr))

{
    $name = $_POST["name"];
    $age = $_POST["age"];
    $gender = $_POST["gender"];
    echo "<h2>Your Ticket is Reserved</h2>";
    echo "<br>Train No:". $trainno;
    echo "<br>From: ".$fromst;
    echo "<br>To: ".$tost;
    echo "<br>Date of Journey: ".$joudate;
    echo "<br>Name".$name;
    echo "<br>Age:".$age;
    echo "<br>Gender:".$gender;
}

else
{
    echo "Some field is empty . You Fill all the Field";
}
?>

```

Result :

Thus a webpage is designed using php for railway reservation form.

\Output

localhost/ex99.html Form Validation ex77.php WhatsApp

Railway Ticket Reservation

From: madurai

To: chennai

Train No: 3456

Date of Journey: 22/02/21

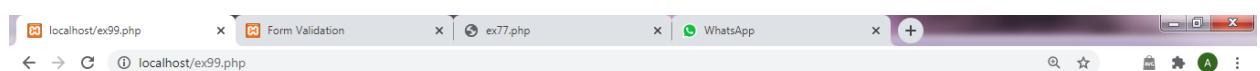
Name: raja

Age: 34

Gender: male

Submit

6:39 AM
2/15/2021



Train No:3456

From: madurai

To: chennai

Date of Journey: 22/02/21

Name:raja

Age:34

Gender:male



localhost/ex99.html Form Validation ex77.php WhatsApp

Railway Ticket Reservation

From: madurai

To: chennai

Train No: 3456

Date of Journey: 22/02/21

Name: [empty input]

Age: 34

Gender: male

6:41 AM
2/15/2021

localhost/ex99.php Form Validation ex77.php WhatsApp

Some field is empty . You Fill all the Field

6:41 AM
2/15/2021

Ex.No:10

Demonstrate the Database – Insert Operation

Aim :

To write a PHP script to demonstrate the database insert operation.

Program:

Insert.html

```
<html>
<body>
<h1>Student Form</h1>
<form name="insert" action="Insert.php" method="POST">
Enter your Name<input type="text" name="name"><br>
Enter your Regno<input type="text" name="regno"><br>
Enter your Total Marks<input type="text"
name="total"><br>
<input type="submit" value="insert">
</form>
</body>
</html>
```

Insert.php

```
<?php
$servername = "localhost";
$username = "root";
$password = "";
```

```

$dbname = "db1";
$name=$_POST["name"];
$regno=$_POST["regno"];
$total=$_POST["total"];
$conn = new mysqli($servername, $username, $password,
$dbname);
if ($conn->connect_error)
{
die("Connection failed: " . $conn->connect_error);
}
$sql = "INSERT INTO student(NAME,
REGNO,TOTAL)VALUES('$name', '$regno', '$total')";
if ($conn->query($sql) === TRUE) {
echo "New record Inserted successfully";
}
else
{
echo "Error: " . $sql . "<br>" . $conn->error;
}
$conn->close();
?>

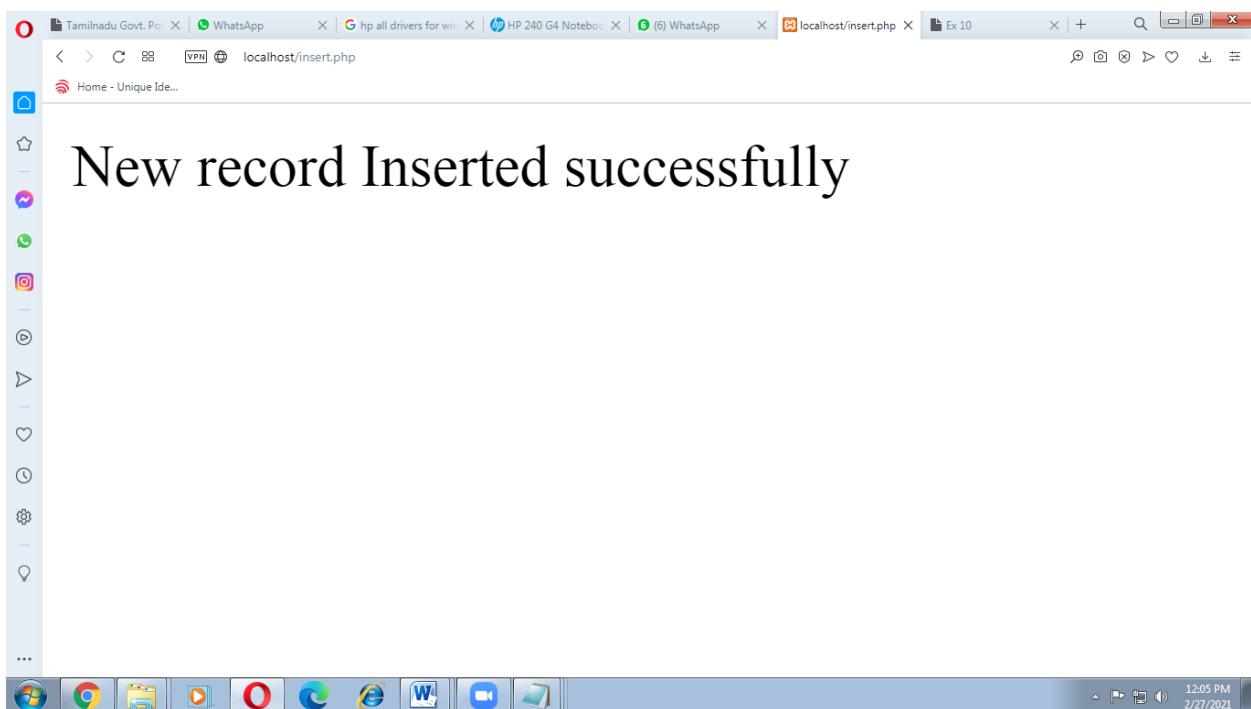
```

Result:

Thus a database insert operation is demonstrated using a webpage with php script.

OUTPUT:

The screenshot shows a Microsoft Edge browser window with the title "Student Form". The page contains three input fields: "Enter your Name" with value "S.NIVAS", "Enter your Regno" with value "1106", and "Enter your Total Marks" with value "456". Below these fields is a button labeled "insert". The browser's address bar shows "localhost/insert.html". The taskbar at the bottom displays various application icons.



localhost / 127.0.0.1 Ex 10

Home - Unique Ide...

phpMyAdmin

Recent Favorites

New db1 New student student1 student2 information_schema mysql performance_schema phpmyadmin test

Server: 127.0.0.1 » Database: db1 » Table: student1

Browse Structure SQL Search Insert Export More

Show all Number of rows: 25 Filter rows: Search this table

+ Options

NAME	REGNO	TOTAL
M.RAMAN	1101	560
R.RAJA	1102	467
M.RANI	1103	600
S.NIVAS	1106	456

Show all Number of rows: 25 Filter rows: Search this table

Query results operations

Print Copy to clipboard Export Display chart Create view

Console

12:02 PM 2/27/2021

NAME	REGNO	TOTAL
M.RAMAN	1101	560
R.RAJA	1102	467
M.RANI	1103	600
S.NIVAS	1106	456

Ex.No.11**Demonstrate the Database – Delete Operation****Aim :**

To write a PHP script to demonstrate database delete operation.

Program:**Delete.html**

```
<html>
<body>
<h1>Student Form</h1>
<form name="delete" action="Delete.php" method="POST">
Enter Regno<input type="text" name="regno"><br>
<input type="submit" value="Delete">
</form>
</body>
</html>
```

Delete.php

```
<?php
$servername = "localhost";
$username = "root";
$password = "";
$dbname = "db1";
$regno=$_POST["regno"];
// Create connection
```

```
$conn = new mysqli($servername, $username, $password,
$dbname);

// Check connection

if ($conn->connect_error)

{

die("Connection failed: ".$conn->connect_error);

}

// sql to delete a record

$sql="DELETE FROM student1 WHERE REGNO='$regno'";

if ($conn->query($sql) === TRUE)

{

echo "Record deleted successfully";

}

else

{

echo "Error deleting record: " . $conn->error;

}

$conn->close();

?>
```

Result :

Thus a database delete operation is demonstrated using a webpage with php script.

phpMyAdmin

Server: 127.0.0.1 » Database: db1 » Table: stu

Browse Structure SQL More

+ Options

NAME	REGNO	TOTAL
M.RAMAN	1101	560
R.RAJA	1102	467
M.RANI	1103	600
S.NIVAS	1106	456
M.VELAN	1107	600
M.MANICKAM	1104	520
N.NATHAN	1105	578

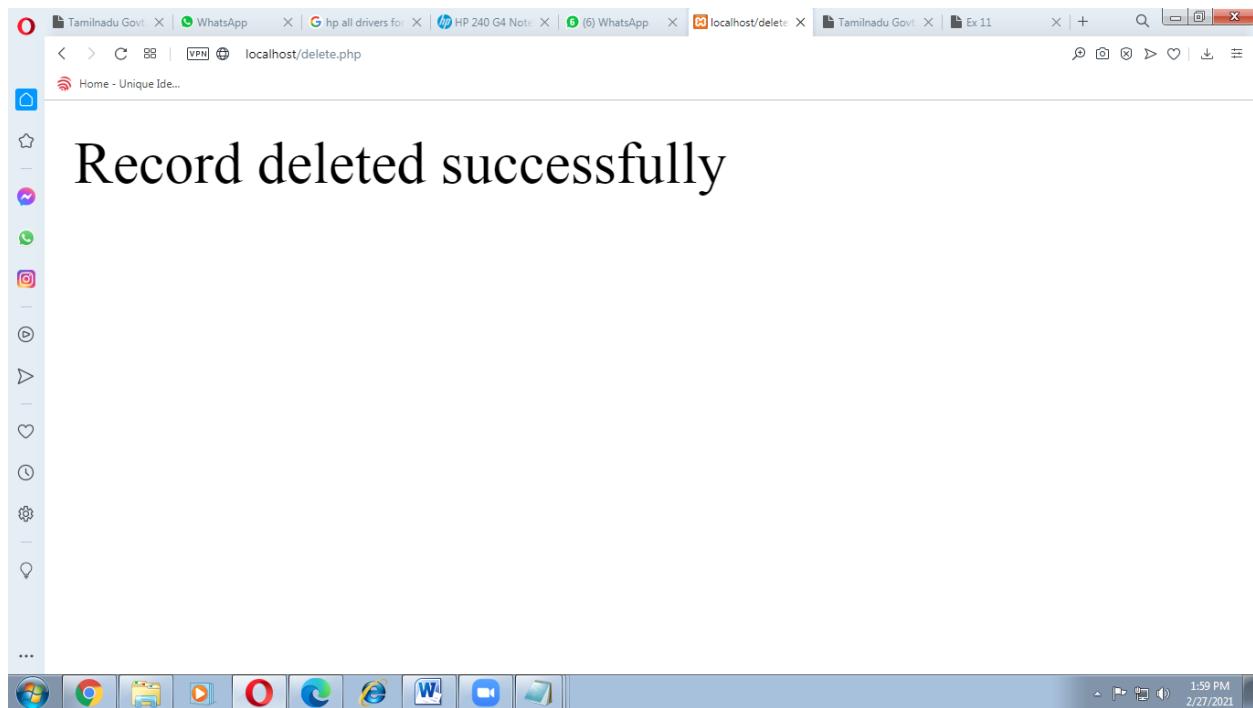
Console Number of rows: 25 Filter rows:

New db1 New student student1 student2 information_schema mysql performance_schema phpmyadmin

Student Form

Enter Regno

Delete



A screenshot of the phpMyAdmin interface. The left sidebar shows a tree view of databases and tables. The "student1" table under the "db1" database is selected. The main panel displays the contents of the "student1" table:

NAME	REGNO	TOTAL
M.RAMAN	1101	560
R.RAJA	1102	467
M.RANI	1103	600
S.NIVAS	1106	456
M.VELAN	1107	600
M.MANICKAM	1104	520

The bottom of the interface shows a "Query results operations" section with a "Console" tab selected.

EX.NO 12
Operation

Demonstrate the Database – Select

Aim :

To write a PHP script to demonstrate database Select operation.

Program :

```
<html>
<body>
<h1> Student Details</h1>
<?php
$servername = "localhost";
$username = "root";
$password = "";
$dbname = "db1";
$conn = new mysqli($servername, $username, $password,
$dbname);
if ($conn->connect_error)
{
die("Connection failed: " . $conn->connect_error);
}
$sql = "SELECT NAME,REGNO,TOTAL FROM student1";
$result = $conn->query($sql);
if ($result->num_rows> 0)
{
echo "<table
border=10><tr><th>NAME</th><th>REGNO</th><th>TOTAL</th></tr>";

```

```
while($row = $result->fetch_assoc())
{
echo "<tr><td>".$row["NAME"]."</td><td>".$row["REGNO"].""
</td><td>".$row["TOTAL"]."</td></tr>";
}
echo "</table>";
} else
{
echo "0 results";
}
$conn->close();
?>
</body>
</html>
```

Result:

Thus a database Select operation is demonstrated using a webpage with php script.

OUTPUT :

DATABASE

The screenshot shows the phpMyAdmin interface for a MySQL database named db1. The left sidebar lists databases like db1, mysql, and information_schema. The main area shows the 'student1' table with the following data:

NAME	REGNO	TOTAL
M.RAMAN	1101	560
R.RAJA	1102	467
M.RANI	1103	600
S.NIVAS	1106	456
M.VELAN	1107	600
M.MANICKAM	1104	520

SELECT DATA'S USING PHP SCRIPT

The screenshot shows a web browser window displaying a PHP script's output titled "Student Details". The page contains a table with the same data as the phpMyAdmin table:

NAME	REGNO	TOTAL
M.RAMAN	1101	560
R.RAJA	1102	467
M.RANI	1103	600
S.NIVAS	1106	456
M.VELAN	1107	600
M.MANICKAM	1104	520

Ex.No.13**Demonstrate the Database- Update Operation****Aim :**

To write a PHP script to demonstrate Update operation.

Program:

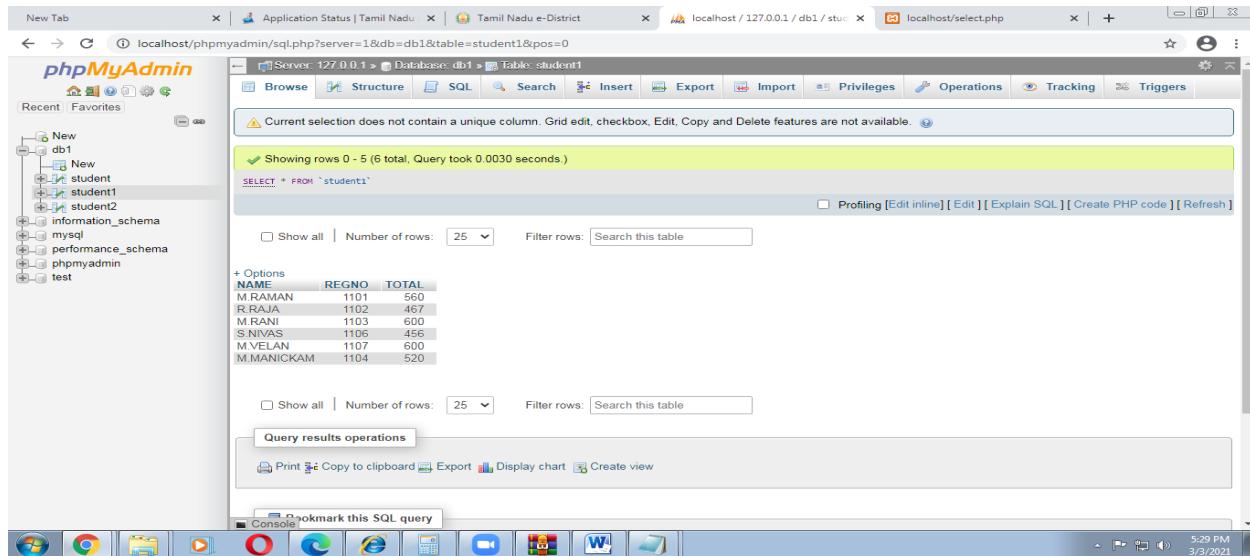
```
<?php  
$servername = "localhost";  
$username = "root";  
$password = "";  
$dbname = "db1";  
  
$conn = new mysqli($servername, $username, $password,  
$dbname);  
  
if ($conn->connect_error) {  
die("Connection failed: " . $conn->connect_error);  
}  
  
$sql = "UPDATE student SET NAME='M. VELAN KUMAR'  
WHERE REGNO=1107";  
  
if ($conn->query($sql) === TRUE) {  
echo "Record updated successfully";  
} else {  
echo "Error updating record: " . $conn->error;  
}  
  
$conn->close();  
?>
```

Result :

Thus a database update operation is demonstrated using webpage with php script.

OUTPUT :

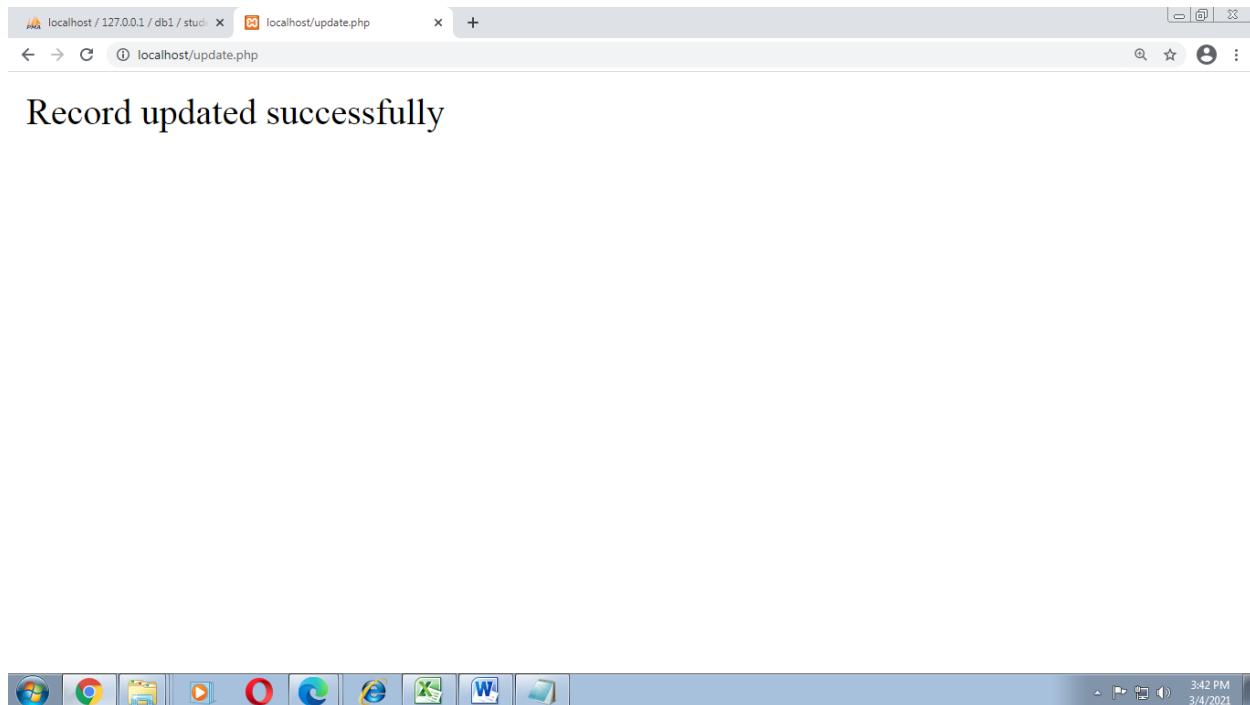
BEFORE UPDATION OF DATABASE



The screenshot shows the phpMyAdmin interface for a database named db1. The left sidebar lists databases like db1, New, information_schema, mysql, performance_schema, phpmyadmin, and test. The main area displays the 'student1' table with the following data:

NAME	REGNO	TOTAL
M.RAMAN	1101	560
R.RAJA	1102	467
M.RANI	1103	600
S.NIVAS	1106	456
M.VELAN	1107	600
M.MANICKAM	1104	520

UPDATE USING PHP SCRIPT



The screenshot shows a web browser window with the URL `localhost/update.php`. The page displays the message "Record updated successfully". The browser's taskbar at the bottom shows various open tabs and icons.

AFTER UPDATION OF DATABASE

The screenshot shows the phpMyAdmin interface for a database named db1. The left sidebar lists databases like db1, New, student, student1, student2, and others. The main area displays the 'student1' table with the following data:

NAME	REGNO	TOTAL
M RAMAN	1101	560
R RAJA	1102	467
M.RANI	1103	600
S.NIVAS	1106	456
M.VELAN KUMAR	1107	600
M.MANICKAM	1104	520

The SQL query used was `SELECT * FROM `student1``. The status bar at the bottom right shows the time as 3:43 PM on 3/4/2021.

Ex.14

Demonstrate the Query Record Selection Operation

Aim:

To demonstrate the various record selection operations using MYSQL queries.

MYSQL queries:

a).Database Creation:

```
CREATE DATABASE DB3;
```

```
USE DB3;
```

b). Table Creation:

```
CREATE TABLE STUDENT(  
    REGNO VARCHAR(6) ,  
    NAME VARCHAR(30),  
    DOB DATE,  
    MARK1 INT(3),MARK2 INT(3),MARK3 INT(3),TOTAL  
    INT(3));
```

c). Insert 10 Records in Student Table:

```
INSERT INTO STUDENT  
(REGNO,NAME,DOB,MARK1,MARK2,MARK3)VALUE  
S (194601,'ANAND','2000-10-3',98,78,56);
```

```
INSERT INTO STUDENT  
(REGNO,NAME,DOB,MARK1,MARK2,MARK3)VALUE  
S (194602,'AMAL','2001-10-3',95,74,52);
```

```
INSERT INTO STUDENT  
(REGNO,NAME,DOB,MARK1,MARK2,MARK3)VALUE  
S (194603,'VELMURUGAN','2002-10-3',40,35,30);
```

```
INSERT INTO STUDENT  
(REGNO,NAME,DOB,MARK1,MARK2,MARK3)VALUE  
S (194604,'NIMAL','2003-10-3',88,75,56);
```

```
INSERT INTO STUDENT  
(REGNO,NAME,DOB,MARK1,MARK2,MARK3)VALUE  
S (194605,'VIMAL','2002-10-3',78,66,56);
```

```
INSERT INTO STUDENT  
(REGNO,NAME,DOB,MARK1,MARK2,MARK3)VALUE  
S (194606,'JANANI','2003-10-3',34,72,52);
```

```
INSERT INTO STUDENT  
(REGNO,NAME,DOB,MARK1,MARK2,MARK3)VALUE  
S (194607,'NANDHINI','2004-10-3',54,74,52);
```

```
INSERT INTO STUDENT  
(REGNO,NAME,DOB,MARK1,MARK2,MARK3)VALUE  
S (194608,'NITHIYA','2005-08-3',78,68,56);
```

```
INSERT INTO STUDENT  
(REGNO,NAME,DOB,MARK1,MARK2,MARK3)VALUE  
S (194609,'JERIN','2001-11-23',99,77,55);
```

```
INSERT INTO STUDENT  
(REGNO,NAME,DOB,MARK1,MARK2,MARK3)VALUE  
S (194610,'SATHEESH','2001-07-3',14,10,20);
```

```
INSERT INTO STUDENT  
(REGNO,NAME,DOB,MARK1,MARK2,MARK3)VALUE  
S (194611,'RAJA','2000-01-3',33,23,53);
```

d).Query to Update Total in Student Table

```
UPDATE STUDENT SET TOTAL =  
MARK1+MARK2+MARK3;
```

e). Query to Display Record in Student Table

```
SELECT * FROM STUDENT;
```

f).Query to Display Student Record with total less than 200

```
SELECT TOTAL FROM STUDENT WHERE  
TOTAL<200;
```

g). Query to Display Student Record with marks less than 50

```
SELECT REGNO, NAME  
FROM STUDENT WHERE REGNO  
AND (MARK1<50 OR MARK2<50 OR MARK3<50);
```

h). Query to Delete Student Detail with total less than 100

```
DELETE STUDENT FROM STUDENT WHERE  
TOTAL<100;
```

Result:

Thus record selection operations in database has been performed using MYSQL queries.

Untitled - Notepad

```
File  Command Prompt - MySQL
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\SAKTHIVEL>CD..
C:\Users>CD..
C:\>CD XAMPP
C:\xampp>CD MYSQL
C:\xampp\mysql>CD BIN
C:\xampp\mysql\bin>MySQL
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MariaDB connection id is 2
Server version: 10.1.28-MariaDB mariadb.org binary distribution

Copyright (c) 2000, 2017, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> CREATE DATABASE DB3;
Query OK, 1 row affected (0.00 sec)
```



Document1 - Microsoft Word

```
File  Command Prompt - MySQL
C:\xampp>CD MYSQL
C:\xampp\mysql>BIN
C:\xampp\mysql\bin>MySQL
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MariaDB connection id is 2
Server version: 10.1.28-MariaDB mariadb.org binary distribution

Copyright (c) 2000, 2017, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> CREATE DATABASE DB3;
Query OK, 1 row affected (0.00 sec)

MariaDB [(none)]> USE DB3;
Database changed
MariaDB [DB3]> CREATE TABLE STUDENT(
    >     REGNO VARCHAR(5),
    >     NAME VARCHAR(30),
    >     DOB DATE,
    >     MARK1 INT(3),MARK2 INT(3),MARK3 INT(3),TOTAL INT(3);
Query OK, 0 rows affected (0.00 sec)
```



Untitled - Notepad

File Command Prompt - MySQL

```
MariaDB [DB3]> SELECT * FROM STUDENT;
+-----+-----+-----+-----+-----+-----+
| REGNO | NAME  | DOB   | MARK1 | MARK2 | MARK3 | TOTAL |
+-----+-----+-----+-----+-----+-----+
| 194601 | ANAND  | 2000-10-03 | 98    | 78    | 56    | NULL  |
| 194602 | AMAL   | 2001-10-03 | 95    | 74    | 52    | NULL  |
| 194603 | SELVARUGAN | 2002-10-03 | 98    | 95    | 90    | 283  |
| 194604 | NIMOL  | 2003-10-03 | 89    | 75    | 56    | NULL  |
| 194605 | UIMAL   | 2002-10-03 | 78    | 66    | 56    | NULL  |
| 194606 | JANANI | 2003-10-03 | 34    | 72    | 52    | NULL  |
| 194607 | NANDHINI | 2004-07-03 | 54    | 74    | 52    | NULL  |
| 194608 | NITHILVA | 1998-06-23 | 78    | 68    | 55    | 191  |
| 194609 | JERIN  | 2001-11-23 | 99    | 77    | 55    | NULL  |
| 194610 | SATHEESH | 2001-07-03 | 14    | 19    | 20    | NULL  |
| 194611 | RAJA   | 2000-01-03 | 33    | 23    | 53    | NULL  |
+-----+-----+-----+-----+-----+-----+
11 rows in set (0.00 sec)

MariaDB [DB3]> UPDATE STUDENT SET TOTAL = MARK1+MARK2+MARK3;
Query OK, 11 rows affected (0.09 sec)
Rows matched: 11  Changed: 11  Warnings: 0

MariaDB [DB3]> SELECT * FROM STUDENT;
+-----+-----+-----+-----+-----+-----+
| REGNO | NAME  | DOB   | MARK1 | MARK2 | MARK3 | TOTAL |
+-----+-----+-----+-----+-----+-----+
| 194601 | ANAND  | 2000-10-03 | 98    | 78    | 56    | 232  |
| 194602 | AMAL   | 2001-10-03 | 95    | 74    | 52    | 221  |
| 194603 | SELVARUGAN | 2002-10-03 | 98    | 95    | 90    | 283  |
| 194604 | NIMOL  | 2003-10-03 | 89    | 75    | 56    | 200  |
| 194605 | UIMAL   | 2002-10-03 | 78    | 66    | 56    | 190  |
| 194606 | JANANI | 2003-10-03 | 34    | 72    | 52    | 158  |
| 194607 | NANDHINI | 2004-07-03 | 54    | 74    | 52    | 180  |
| 194608 | NITHILVA | 1998-06-23 | 78    | 68    | 55    | 191  |
| 194609 | JERIN  | 2001-11-23 | 99    | 77    | 55    | 231  |
| 194610 | SATHEESH | 2001-07-03 | 14    | 19    | 20    | 44   |
| 194611 | RAJA   | 2000-01-03 | 33    | 23    | 53    | 109  |
+-----+-----+-----+-----+-----+-----+
11 rows in set (0.00 sec)
```

Untitled - Notepad

File Edit Format View Help

5:19 AM 3/8/2021

Command Prompt - MySQL

```
MariaDB [DB3]> SELECT TOTAL FROM STUDENT WHERE TOTAL<200;
+-----+
| TOTAL |
+-----+
| 195  |
| 158  |
| 188  |
| 44   |
| 109  |
+-----+
5 rows in set (0.00 sec)
```

5:20 AM 3/8/2021

Untitled - Notepad

File Edit Format View Help

Command Prompt - MySQL

```
MariaDB [DB3]> SELECT REGNO, NAME
-> FROM STUDENT WHERE REGNO
-> AND <MARK1<50 OR MARK2<50 OR MARK3<50>;
+-----+-----+
| REGNO | NAME |
+-----+-----+
| 194603 | UELMURUGAN |
| 194606 | JANANI |
| 194610 | SATHEESH |
| 194611 | RAJAH |
+-----+-----+
4 rows in set <0.00 sec>
```

5:23 AM
3/8/2021

Untitled - Notepad

File Edit Format View Help

Command Prompt - MySQL

```
MariaDB [DB3]> DELETE STUDENT FROM STUDENT WHERE TOTAL<100;
Query OK, 1 row affected (<0.07 sec>)

MariaDB [DB3]> SELECT * FROM STUDENT;
+-----+-----+-----+-----+-----+-----+-----+
| REGNO | NAME | DOB | MARK1 | MARK2 | MARK3 | TOTAL |
+-----+-----+-----+-----+-----+-----+-----+
| 194601 | ANAND | 2000-10-03 | 98 | 78 | 56 | 232 |
| 194602 | OMALI | 2001-10-03 | 95 | 74 | 52 | 221 |
| 194603 | UELMURUGAN | 2002-10-03 | 49 | 35 | 30 | 105 |
| 194604 | NIMAL | 2003-10-03 | 88 | 75 | 56 | 219 |
| 194605 | UMLAL | 2002-10-03 | 78 | 66 | 56 | 200 |
| 194606 | JANANI | 2003-10-03 | 51 | 72 | 52 | 175 |
| 194607 | NANDHINI | 2004-10-03 | 54 | 74 | 52 | 180 |
| 194608 | NITHIYA | 2005-08-03 | 78 | 68 | 56 | 202 |
| 194609 | JERIN | 2001-11-23 | 99 | 77 | 55 | 231 |
| 194611 | RAJAH | 2000-01-03 | 33 | 23 | 53 | 109 |
+-----+-----+-----+-----+-----+-----+-----+
10 rows in set <0.00 sec>

MariaDB [DB3]>
```

5:24 AM
3/8/2021

Ex.No.15

Working with Strings

Aim :

To demonstrate the String Operations available in MYSQL.

Mysql Query:

a).Database Creation

```
CREATE DATABASE DB4;  
USE DB4;
```

b). Student Table Creation

```
CREATE TABLE STUDENT(  
    FIRSTNAME VARCHAR(30) ,  
    LASTNAME VARCHAR(30),  
    ADDRESS VARCHAR(30),  
    EMAIL VARCHAR(30);
```

c). Insert 10 records in Tabe

```
INSERT INTO STUDENT VALUES  
('Ram','kumar','29,North street- madurai','aa@gmail.com');  
  
INSERT INTO STUDENT VALUES  
('Vino','Balan','89,South street- chennai','123@gmail.com');  
  
INSERT INTO STUDENT VALUES ('rajesh','kannan','42  
cross street- madurai','bc@gmail.com');  
  
INSERT INTO STUDENT VALUES  
('vinoth','kumar','12,North street- tnvl','34@gmail.com');
```

```
INSERT INTO STUDENT VALUES ('kamal','rajan','23,East  
street- Nagercoil','agk@gmail.com');
```

```
INSERT INTO STUDENT VALUES  
('venu','Gopalan','56,West street- madurai','pp@gmail.com');
```

```
INSERT INTO STUDENT VALUES ('nimal','vishal','34,east  
street- madurai','sa@gmail.com');
```

```
INSERT INTO STUDENT VALUES  
('tamil','selvan','4,alagar street- madurai','mm@gmail.com');
```

```
INSERT INTO STUDENT VALUES ('raj','kumar','45,North  
street- madurai','p1a@gmail.com');
```

```
INSERT INTO STUDENT VALUES  
('sakthi','rajan','N21,North street-  
madurai','p56@gmail.com');
```

d). Query to Display Firstname in uppercase and lowercase

```
SELECT ucase(FIRSTNAME) FROM STUDENT;
```

```
SELECT lcase(FIRSTNAME) FROM STUDENT;
```

e).Query to concat First name and Lastname

```
SELECT CONCAT(FIRSTNAME, ' ', LASTNAME) NAME  
FROM STUDENT;
```

f).Query to Display Name with initials

```
SELECT  
CONCAT(UCASE(SUBSTRING(LASTNAME,1,1)),'.  
' ,UCASE(FIRSTNAME)) NAMEFROM STUDENT;
```

g).Query to Display length of name greater than 6

```
SELECT LASTNAME FROM STUDENT WHERE  
LENGTH(LASTNAME)>6;
```

h). Query to Display name in reverse

```
SELECT REVERSE(FIRSTNAME) FROM STUDENT;
```

Result:

Thus String Manipulation function has been performed using MYSQL queries.

EX15OSS - Microsoft Word

Copyright <c> 2009 Microsoft Corporation. All rights reserved.

```
C:\Users\SAKTHIVEL>cd..  
C:\Users>cd..  
C:\>cd xampp  
C:\xampp>cd mysql  
C:\xampp\mysql>cd bin  
C:\xampp\mysql\bin>mysql  
Welcome to the MariaDB monitor. Commands end with ; or \g.  
Your MariaDB connection id is 2  
Server version: 10.1.28-MariaDB mariadb.org binary distribution  
Copyright <c> 2000, 2017, Oracle, MariaDB Corporation Ab and others.  
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.  
MariaDB [<none>]> create database db4;  
Query OK, 1 row affected <0.00 sec>  
MariaDB [<none>]> use db4;  
Database changed  
MariaDB [db4]> create table student<FIRSTNAME VARCHAR(30),LASTNAME VARCHAR(30),ADDRESS VARCHAR(30),EMAIL VARCHAR(30)>;
```

Page: 1 of 3 | Words: 0 | 11:19 AM 3/10/2021

EX15OSS - Microsoft Word

```
MariaDB [db4]> create table student<FIRSTNAME VARCHAR(30),LASTNAME VARCHAR(30),ADDRESS VARCHAR(30),EMAIL VARCHAR(30)>;  
Query OK, 0 rows affected <0.25 sec>  
MariaDB [db4]> INSERT INTO STUDENT VALUES ('Ram','kumar','North street- madurai','aab@gmail.com');  
Query OK, 1 row affected <0.09 sec>  
MariaDB [db4]> INSERT INTO STUDENT VALUES ('Vino','Balan','89,South street- chennai','123@gmail.com');  
Query OK, 1 row affected <0.10 sec>  
MariaDB [db4]> INSERT INTO STUDENT VALUES ('rajesh','kannan','42 cross street- madurai','hcl@gmail.com');  
Query OK, 1 row affected <0.13 sec>  
MariaDB [db4]> INSERT INTO STUDENT VALUES ('vinoth','kumar','12,North street- tn v'l','3d@gmail.com');  
Query OK, 1 row affected <0.04 sec>  
MariaDB [db4]> INSERT INTO STUDENT VALUES ('kamal','rajan','23,East street- Nagercoil','agk@gmail.com');  
Query OK, 1 row affected <0.05 sec>  
MariaDB [db4]> INSERT INTO STUDENT VALUES ('venu','Gopalan','56,West street- madurai','pp@gmail.com');  
Query OK, 1 row affected <0.04 sec>  
MariaDB [db4]> INSERT INTO STUDENT VALUES ('nimal','vishal','34,east street- madurai','sa@gmail.com');  
Query OK, 1 row affected <0.04 sec>  
MariaDB [db4]> INSERT INTO STUDENT VALUES ('tamil','selvan','4.alagar street- madurai','mn@gmail.com');  
Query OK, 1 row affected <0.04 sec>  
MariaDB [db4]> INSERT INTO STUDENT VALUES ('raj','kumar','45,North street- madurai','rak@gmail.com');
```

Page: 2 of 3 | Words: 0 | 11:21 AM 3/10/2021

Untitled - Notepad

```
MariaDB [db4]>
MariaDB [db4]> SELECT ucase(FIRSTNAME) FROM STUDENT;
+ ucase(FIRSTNAME) +
| RAM           |
| UINO          |
| VINESH        |
| UIMOTH        |
| KAMAL          |
| VENU           |
| NIMAL          |
| TAMIL          |
| RAJ             |
| SAKTHI         |
+-----+
10 rows in set (0.00 sec)

MariaDB [db4]> SELECT lcase(FIRSTNAME) FROM STUDENT;
+ lcase(FIRSTNAME) +
| ran           |
| vino          |
| rajesh         |
| tush            |
| kamal          |
| venu           |
| nimal          |
| tamil          |
| raj             |
| sakthi         |
+-----+
10 rows in set (0.04 sec)

MariaDB [db4]> SELECT CONCAT(FIRSTNAME, ' ', LASTNAME) NAME FROM STUDENT;
+ NAME +
| Ram Kumar      |
| Uino Balan    |
| rajesh kannan |
| vinoth kumar   |
| tush rajan     |
| venu Gopal an  |
| nimal vishal   |
| tamil selvan   |
| raj kumar       |
| sakthi rajan   |
+-----+
10 rows in set (0.00 sec)
```

6:16 AM
3/9/2021

EX150SS - Microsoft Word

Untitled - Notepad

```
MariaDB [db4]> SELECT * FROM STUDENT;
+ FIRSTNAME | LASTNAME | ADDRESS | EMAIL
+-----+-----+-----+-----+
| Ram       | kumar    | North street- madurai | aa@gmail.com
| Uino      | Balan    | 89.South street- chennai | 123@gmail.com
| rajesh    | kannan   | 42 cross street- madurai | hc@gmail.com
| vinoth    | kumar    | 12.North street- tnvl | 34@gmail.com
| kamal     | rajan    | 23.East street- Nagercoil | agk@gmail.com
| venu      | Gopalan  | 56.West street- nadurai | pp@gmail.com
| nimal     | vishal   | 34.east street- nadurai | sa@gmail.com
| tamil     | selvan   | 4.alagar street- madurai | mn@gmail.com
| raj       | kumar    | 45.North street- madurai | pia@gmail.com
| sakthi    | rajan    | M21,North street- madurai | p56@gmail.com
+-----+
10 rows in set (0.00 sec)
```

Page: 4 of 4 | Words: 0 | 11:23 AM
3/10/2021

```
ca Command Prompt - mysql  
10 rows in set <0.00 sec>  
MariaDB [db41]> SELECT CONCAT(UCASE(SUBSTRING(LASTNAME,1,1)),', ',UCASE(FIRSTNAME  
>> NAME  
>> FROM STUDENT;  
+ NAME +  
| K. RAM |  
| B. VINO |  
| K. RAJESH |  
| K. SATHI |  
| R. NAMAL |  
| G. VENU |  
| U. NIMAL |  
| S. NILIL |  
| K. RAM |  
| R. SAKTHI |  
+-----+  
10 rows in set <0.00 sec>  
MariaDB [db41]> SELECT LASTNAME FROM STUDENT WHERE LENGTH(LASTNAME)>6;  
+ LASTNAME +  
| Gopalan |  
+-----+  
1 row in set <0.00 sec>  
MariaDB [db41]> SELECT FIRSTNAME FROM STUDENT WHERE REVERSE(FIRSTNAME);  
Empty set, 10 warnings (0.00 sec)  
MariaDB [db41]> SELECT FIRSTNAME FROM STUDENT WHERE REVERSE(FIRSTNAME);  
Empty set, 10 warnings (0.00 sec)  
MariaDB [db41]> SELECT FIRSTNAME FROM STUDENT WHERE FIRSTNAME=REVERSE(FIRSTNAME);  
Empty set (0.00 sec)  
MariaDB [db41]> SELECT REVERSE(FIRSTNAME) FROM STUDENT;  
+ REVERSE(FIRSTNAME) +  
| nair |  
| onju |  
| hejar |  
| httoniv |  
| lanak |  
| uneo |  
| lanin |  
| linat |  
| jar |  
| imthas |  
+-----+  
10 rows in set <0.00 sec>  
MariaDB [db41]> _
```

6:19 AM
3/9/2021

Ex.No.16**Working with Date and time****Aim:**

To demonstrate the Date and Time Operations in MYSQL.

Mysql Query :**a). Database Creation**

```
CREATE DATABASE DB4;  
USE DB4;
```

b).Table Creation

```
CREATE TABLE PRODUCT(  
    ORDERNO INT,  
    QTY INT,  
    PRODNAME VARCHAR(30),  
    ORDERDATE DATE ,  
    ORDERTIME TIME ,  
    ORDERDEL DATE ,  
    PRICE INT);
```

c). Insert 10 Orders in the database

```
INSERT INTO PRODUCT  
VALUES(104,3,'PENDRIVE','2021-01-  
13',CURTIME(),DATE_ADD('2021-01-13',INTERVAL 5  
DAY),900);  
  
INSERT INTO PRODUCT VALUES(105,6,'MOBILE  
PHONE REDMI','2021-02-  
14',CURTIME(),DATE_ADD('2021-02-14',INTERVAL 6  
DAY),15000);
```

```
INSERT INTO PRODUCT  
VALUES(106,4,'COMPUTER','2021-01-  
15',CURTIME(),DATE_ADD('2021-01-15',INTERVAL 7  
DAY),40000);  
  
INSERT INTO PRODUCT VALUES(107,5,'SWITCH  
BOX','2021-02-15',CURTIME(),DATE_ADD('2021-02-  
15',INTERVAL 4 DAY),600);  
  
INSERT INTO PRODUCT  
VALUES(108,2,'MODEM','2021-03-  
10',CURTIME(),DATE_ADD('2021-03-10',INTERVAL 5  
DAY),600);  
  
INSERT INTO PRODUCT VALUES(109,7,'CD  
DRIVE','2021-01-10',CURTIME(),DATE_ADD('2021-01-  
10',INTERVAL 6 DAY),200);  
  
INSERT INTO PRODUCT VALUES(110,9,'FLOPPY  
DISK','2021-02-13',CURTIME(),DATE_ADD('2021-02-  
13',INTERVAL 4 DAY),900);  
  
INSERT INTO PRODUCT  
VALUES(111,10,'HARDDISK','2021-02-  
15',CURTIME(),DATE_ADD('2021-02-15',INTERVAL 5  
DAY),1000);  
  
INSERT INTO PRODUCT  
VALUES(112,12,'MOUSE','2021-01-  
10',CURTIME(),DATE_ADD('2021-01-10',INTERVAL 3  
DAY),1200);  
  
INSERT INTO PRODUCT  
VALUES(113,15,'KEYBOARD','2021-03-  
01',CURTIME(),DATE_ADD('2021-03-01',INTERVAL 5  
DAY),1500);
```

d). Query to Display Product Details

```
SELECT * FROM PRODUCT;
```

e). Query to Display orders placed between two dates

```
SELECT ORDERNO, PRODNAME, QTY, PRICE  
FROM PRODUCT WHERE ORDERDATE BETWEEN  
'2021-01-01' AND '2021-01-31';
```

e).Query to Display Order delivery day for all orders

```
SELECT ORDERNO, DAYNAME(ORDERDEL)  
DAYNAME, PRODNAME, QTY, PRICE FROM  
PRODUCT;
```

f).Query to Display Order delivery within 7 days

```
SELECT ORDERNO, PRODNAME, QTY, PRICE  
FROM PRODUCT WHERE  
DATEDIFF(ORDERDEL, ORDERDATE) < 7;
```

g). Query to Display Orders placed in month of JANUARY

```
SELECT ORDERNO, PRODNAME, QTY, PRICE  
FROM PRODUCT WHERE  
MONTHNAME(ORDERDATE) = 'JANUARY';
```

h). Query to Display placed in timing(5.00 AM to 10.00 PM)

```
SELECT ORDERNO, ORDERTIME, PRODNAME, QTY,  
PRICE FROM PRODUCT WHERE ORDERNO AND  
HOUR(ORDERTIME) BETWEEN 5 AND 22;
```

Result :

Thus Date and Time Manipulation function has been performed using MYSQL queries.

Output

```
cmd Command Prompt - MYSQL
Microsoft Windows [Version 6.1.7601]
Copyright <c> 2009 Microsoft Corporation. All rights reserved.

C:\Users\SAKTHIUEL>CD..
C:\Users>CD..
C:\>CD XAMPP
C:\xampp>CD MYSQL
C:\xampp\mysql>CD BIN

C:\xampp\mysql\bin>MYSQL
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MariaDB connection id is 2
Server version: 10.1.28-MariaDB mariadb.org binary distribution
Copyright (c) 2000, 2017, Oracle, MariaDB Corporation Ab and others.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> USE DB4;
Database changed
MariaDB [DB4]> CREATE TABLE PRODUCT<
-> ORDERNO INT,
-> QTY INT,
-> PRODNAME VARCHAR<30>,
-> ORDERDATE DATE,
-> ORDERTIME TIME,
-> ORDERDEL DATE,
-> PRICE INT>;
Query OK, 0 rows affected <0.24 sec>

MariaDB [DB4]> INSERT INTO PRODUCT VALUES<104,3,'PENDRIVE','2021-01-13',CURTIME(),
-> DATE_ADD('2021-01-13',INTERVAL 5 DAY),900>;
Query OK, 1 row affected <0.08 sec>

MariaDB [DB4]> INSERT INTO PRODUCT VALUES<104,3,'PENDRIVE','2021-01-13',CURTIME(),
-> DATE_ADD('2021-01-13',INTERVAL 5 DAY),900>;
Query OK, 1 row affected <0.10 sec>

MariaDB [DB4]> INSERT INTO PRODUCT VALUES<105,6,'MOBILE PHONE REDMI','2021-02-14',
-> CURTIME(),DATE_ADD('2021-02-14',INTERVAL 6
-> DAY),15000>;
Query OK, 1 row affected <0.19 sec>

MariaDB [DB4]> INSERT INTO PRODUCT VALUES<106,4,'COMPUTER','2021-01-15',CURTIME(),
-> DATE_ADD('2021-01-15',INTERVAL 2 DAY),40000>;
Query OK, 1 row affected <0.04 sec>

MariaDB [DB4]> INSERT INTO PRODUCT VALUES<107,5,'SWITCH BOX','2021-02-15',CURTIME(),
-> DATE_ADD('2021-02-15',INTERVAL 4 DAY),6000>;
Query OK, 1 row affected <0.04 sec>

MariaDB [DB4]> INSERT INTO PRODUCT VALUES<108,2,'MODEM','2021-03-10',CURTIME(),D -
```

```
cmd Command Prompt - MYSQL
MariaDB [DB4]> INSERT INTO PRODUCT VALUES<108,2,'MODEM','2021-03-10',CURTIME(),D
ATE_ADD('2021-03-10',INTERVAL 5 DAY),6000>;
Query OK, 1 row affected <0.04 sec>

MariaDB [DB4]> INSERT INTO PRODUCT VALUES<109,7,'CD DRIVE','2021-01-10',CURTIME(),
-> DATE_ADD('2021-01-10',INTERVAL 6 DAY),2000>;
Query OK, 1 row affected <0.12 sec>

MariaDB [DB4]> INSERT INTO PRODUCT VALUES<110,9,'FLOPPY DISK','2021-02-13',CURTI
ME(),DATE_ADD('2021-02-13',INTERVAL 4 DAY),9000>;
Query OK, 1 row affected <0.10 sec>

MariaDB [DB4]> INSERT INTO PRODUCT VALUES<111,10,'HARDDISK','2021-02-15',CURTIME(),
-> DATE_ADD('2021-02-15',INTERVAL 5 DAY),10000>;
Query OK, 1 row affected <0.09 sec>

MariaDB [DB4]> INSERT INTO PRODUCT VALUES<112,12,'MOUSE','2021-01-10',CURTIME(),
-> DATE_ADD('2021-01-10',INTERVAL 3 DAY),12000>;
Query OK, 1 row affected <0.04 sec>

MariaDB [DB4]> INSERT INTO PRODUCT VALUES<113,15,'KEYBOARD','2021-03-01',CURTIME(),
-> DATE_ADD('2021-03-01',INTERVAL 5 DAY),15000>;
Query OK, 1 row affected <0.04 sec>

MariaDB [DB4]> SELECT * FROM PRODUCT;
+-----+-----+-----+-----+-----+-----+-----+-----+
| ORDERNO | QTY | PRODNAME | ORDERDATE | ORDERTIME | ORDERDEL | PRICE |
+-----+-----+-----+-----+-----+-----+-----+
| 104 | 3 | PENDRIVE | 2021-01-13 | 05:59:42 | 2021-01-18 | 900 |
| 104 | 3 | PENDRIVE | 2021-01-13 | 05:52:14 | 2021-01-18 | 900 |
| 105 | 6 | MOBILE PHONE REDMI | 2021-02-14 | 05:52:14 | 2021-02-20 | 15000 |
| 106 | 4 | COMPUTER | 2021-01-15 | 05:52:14 | 2021-01-22 | 40000 |
| 107 | 5 | SWITCH BOX | 2021-02-15 | 05:52:14 | 2021-02-19 | 6000 |
| 108 | 2 | MODEM | 2021-03-10 | 05:52:14 | 2021-03-15 | 6000 |
| 109 | 7 | CD DRIVE | 2021-01-10 | 05:52:14 | 2021-01-16 | 2000 |
| 110 | 9 | FLOPPY DISK | 2021-02-13 | 05:52:14 | 2021-02-17 | 9000 |
| 111 | 10 | HARDDISK | 2021-02-15 | 05:52:14 | 2021-02-20 | 10000 |
| 112 | 12 | MOUSE | 2021-01-10 | 05:52:14 | 2021-01-13 | 12000 |
| 113 | 15 | KEYBOARD | 2021-03-01 | 05:52:14 | 2021-03-06 | 15000 |
+-----+-----+-----+-----+-----+-----+-----+
11 rows in set <0.00 sec>
```

```

C:\ Command Prompt - MySQL
MariaDB [DB4] > SELECT ORDERNO, PRODNAME, QTY, PRICE
-> FROM PRODUCT
-> WHERE ORDERDATE BETWEEN '2021-01-01' AND '2021-01-31';
+-----+-----+-----+-----+
| ORDERNO | PRODNAME | QTY | PRICE |
+-----+-----+-----+-----+
| 104 | PENDRIVE | 3 | 900 |
| 104 | PENDRIVE | 3 | 900 |
| 106 | COMPUTER | 4 | 40000 |
| 109 | CD DRIVE | 2 | 2000 |
| 112 | MOUSE | 12 | 1200 |
+-----+-----+-----+-----+
5 rows in set <0.00 sec>

MariaDB [DB4] > SELECT ORDERNO, DAYNAME<ORDERDEL>, DAYNAME, PRODNAME, QTY, PRICE
-> FROM PRODUCT;
+-----+-----+-----+-----+-----+-----+
| ORDERNO | DAYNAME | PRODNAME | QTY | PRICE |
+-----+-----+-----+-----+-----+
| 104 | Monday | PENDRIVE | 3 | 900 |
| 104 | Monday | PENDRIVE | 3 | 900 |
| 105 | Saturday | MOBILE PHONE REDMI | 6 | 15000 |
| 106 | Friday | COMPUTER | 4 | 40000 |
| 107 | Saturday | SWITCH BOX | 5 | 6000 |
| 108 | Friday | MODEM | 2 | 6000 |
| 109 | Saturday | CD DRIVE | 2 | 2000 |
| 110 | Wednesday | FLOPPY DISK | 9 | 900 |
| 111 | Saturday | HARDDISK | 10 | 10000 |
| 112 | Wednesday | MOUSE | 12 | 1200 |
| 113 | Saturday | KEYBOARD | 15 | 1500 |
+-----+-----+-----+-----+-----+
11 rows in set <0.00 sec>

MariaDB [DB4] > SELECT ORDERNO, PRODNAME, QTY, PRICE
-> FROM PRODUCT
-> WHERE DATEDIFF<ORDERDEL, ORDERDATE><?>;
+-----+-----+-----+-----+
| ORDERNO | PRODNAME | QTY | PRICE |
+-----+-----+-----+-----+
| 104 | PENDRIVE | 3 | 900 |
| 104 | PENDRIVE | 3 | 900 |
| 105 | MOBILE PHONE REDMI | 6 | 15000 |
| 107 | SWITCH BOX | 5 | 6000 |
| 108 | MODEM | 2 | 6000 |
| 109 | CD DRIVE | 2 | 2000 |
| 110 | FLOPPY DISK | 9 | 900 |
| 111 | HARDDISK | 10 | 10000 |
| 112 | MOUSE | 12 | 1200 |
| 113 | KEYBOARD | 15 | 1500 |
+-----+-----+-----+-----+
10 rows in set <0.00 sec>

MariaDB [DB4] > SELECT ORDERNO, PRODNAME, QTY, PRICE
-> FROM PRODUCT
-> WHERE MONTHNAME<ORDERDATE>='JANUARY';
+-----+-----+-----+-----+
| ORDERNO | PRODNAME | QTY | PRICE |
+-----+-----+-----+-----+
| 104 | PENDRIVE | 3 | 900 |
| 104 | PENDRIVE | 3 | 900 |
| 106 | COMPUTER | 4 | 40000 |
| 109 | CD DRIVE | 2 | 2000 |
| 112 | MOUSE | 12 | 1200 |
+-----+-----+-----+-----+
5 rows in set <0.00 sec>
```

```

C:\ Command Prompt - MySQL
10 rows in set <0.00 sec>

MariaDB [DB4] > SELECT ORDERNO, PRODNAME, QTY, PRICE
-> FROM PRODUCT
-> WHERE MONTHNAME<ORDERDATE>='JANUARY';
+-----+-----+-----+-----+
| ORDERNO | PRODNAME | QTY | PRICE |
+-----+-----+-----+-----+
| 104 | PENDRIVE | 3 | 900 |
| 104 | PENDRIVE | 3 | 900 |
| 106 | COMPUTER | 4 | 40000 |
| 109 | CD DRIVE | 2 | 2000 |
| 112 | MOUSE | 12 | 1200 |
+-----+-----+-----+-----+
5 rows in set <0.00 sec>

MariaDB [DB4] > SELECT ORDERNO, ORDERTIME, PRODNAME, QTY, PRICE
-> FROM PRODUCT
-> WHERE ORDERNO AND HOUR<ORDERTIME> BETWEEN 5 AND 22;
+-----+-----+-----+-----+-----+
| ORDERNO | ORDERTIME | PRODNAME | QTY | PRICE |
+-----+-----+-----+-----+-----+
| 104 | 05:39:42 | PENDRIVE | 3 | 900 |
| 104 | 05:52:14 | PENDRIVE | 3 | 900 |
| 105 | 05:52:14 | MOBILE PHONE REDMI | 6 | 15000 |
| 106 | 05:52:14 | COMPUTER | 4 | 40000 |
| 107 | 05:52:14 | SWITCH BOX | 5 | 6000 |
| 108 | 05:52:14 | MODEM | 2 | 6000 |
| 109 | 05:52:14 | CD DRIVE | 2 | 2000 |
| 110 | 05:52:14 | FLOPPY DISK | 9 | 900 |
| 111 | 05:52:14 | HARDDISK | 10 | 10000 |
| 112 | 05:52:14 | MOUSE | 12 | 1200 |
| 113 | 05:52:14 | KEYBOARD | 15 | 1500 |
+-----+-----+-----+-----+
11 rows in set <0.00 sec>

MariaDB [DB4] > _
```

Ex.17**Working with Summary Operations****Aim:**

To demonstrate the various summary operations in Mysql queries.

MYSQL queries:**a).Database Creation:**

```
CREATE DATABASE DB3;  
USE DB3;
```

b). Table Creation:

```
CREATE TABLE STUDENT(  
    REGNO VARCHAR(6) ,  
    NAME VARCHAR(30),  
    DOB DATE,  
    MARK1 INT(3),MARK2 INT(3),MARK3 INT(3),TOTAL  
    INT(3));
```

c). Insert 10 Records in Student Table:

```
INSERT INTO STUDENT  
(REGNO,NAME,DOB,MARK1,MARK2,MARK3)VALUE  
S (194601,'ANAND','2000-10-3',98,78,56);
```

```
INSERT INTO STUDENT  
(REGNO,NAME,DOB,MARK1,MARK2,MARK3)VALUE  
S (194602,'AMAL','2001-10-3',95,74,52);
```

```
INSERT INTO STUDENT  
(REGNO,NAME,DOB,MARK1,MARK2,MARK3)VALUE  
S (194603,'VELMURUGAN','2002-10-3',40,35,30);
```

INSERT INTO STUDENT
(REGNO,NAME,DOB,MARK1,MARK2,MARK3)VALUE
S (194604,'NIMAL','2003-10-3',88,75,56);

INSERT INTO STUDENT
(REGNO,NAME,DOB,MARK1,MARK2,MARK3)VALUE
S (194605,'VIMAL','2002-10-3',78,66,56);

INSERT INTO STUDENT
(REGNO,NAME,DOB,MARK1,MARK2,MARK3)VALUE
S (194606,'JANANI','2003-10-3',34,72,52);

INSERT INTO STUDENT
(REGNO,NAME,DOB,MARK1,MARK2,MARK3)VALUE
S (194607,'NANDHINI','2004-10-3',54,74,52);

INSERT INTO STUDENT
(REGNO,NAME,DOB,MARK1,MARK2,MARK3)VALUE
S (194608,'NITHIYA','2005-08-3',78,68,56);

INSERT INTO STUDENT
(REGNO,NAME,DOB,MARK1,MARK2,MARK3)VALUE
S (194609,'JERIN','2001-11-23',99,77,55);

INSERT INTO STUDENT
(REGNO,NAME,DOB,MARK1,MARK2,MARK3)VALUE
S (194610,'SATHEESH','2001-07-3',14,10,20);

INSERT INTO STUDENT
(REGNO,NAME,DOB,MARK1,MARK2,MARK3)VALUE
S (194611,'RAJA','2000-01-3',33,23,53);

d).Query to Update Total in Student Table

UPDATE STUDENT SET TOTAL =
MARK1+MARK2+MARK3;

e). Query to Display Record in Student Table

SELECT * FROM STUDENT;

f).Query to Display Maximum, Minimum and Average Total in Student Record

```
SELECT REGNO,NAME,MIN(TOTAL) FROM STUDENT;
```

```
SELECT REGNO,NAME,MAX(TOTAL) FROM STUDENT;
```

```
SELECT REGNO,NAME,AVG(TOTAL) FROM STUDENT;
```

g).Query to count name below 50 marks

```
SELECT REGNO, COUNT(NAME)  
FROM STUDENT WHERE REGNO  
AND (MARK1<50 OR MARK2<50 OR MARK3<50);
```

h). Query to Display Student Record Group by DOB

```
SELECT REGNO,NAME,DOB FROM STUDENT GROUP BY DOB;
```

i). Query to Display Student Record Order by Name in ascending order

```
SELECT REGNO,NAME,TOTAL FROM STUDENT ORDER BY NAME ASC;
```

Result :

Thus summary operations has been performed using MYSQL queries.

Output

```
on mysql -u root
Setting environment for using XAMPP for Windows.
# mysql -u root
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 4
Server version 10.1.28-MariaDB mariadb.org binary distribution
Copyright (c) 2000, 2017, Oracle, MariaDB Corporation Ab and others.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
MariaDB [(none)]> create database db7;
Query OK, 1 row affected <0.00 sec>
MariaDB [(none)]> use db7;
Database changed
MariaDB [db7]> CREATE TABLE STUDENT<
-> (
->   NAME VARCHAR<30>,
->   DOB DATE,
->   MARK1 INT<3>, MARK2 INT<3>, MARK3 INT<3>, TOTAL INT<3>;
Query OK, 0 rows affected <0.25 sec>
MariaDB [db7]> INSERT INTO STUDENT <REGNO,NAME,DOB,MARK1,MARK2,MARK3>VALUES <194
601,'ANAND','2000-10-03',98,78,56>;
Query OK, 1 row affected <0.09 sec>
MariaDB [db7]> INSERT INTO STUDENT <REGNO,NAME,DOB,MARK1,MARK2,MARK3>VALUES <194
602,'AMAL','2001-10-03',95,74,52>;
Query OK, 1 row affected <0.06 sec>
MariaDB [db7]> INSERT INTO STUDENT <REGNO,NAME,DOB,MARK1,MARK2,MARK3>VALUES <194
603,'VELMURUGAN','2002-10-03',40,35,30>;
Query OK, 1 row affected <0.14 sec>
MariaDB [db7]> INSERT INTO STUDENT <REGNO,NAME,DOB,MARK1,MARK2,MARK3>VALUES <194
604,'NIMAL','2003-10-03',84,66,56>;
Query OK, 1 row affected <0.04 sec>
MariaDB [db7]> INSERT INTO STUDENT <REGNO,NAME,DOB,MARK1,MARK2,MARK3>VALUES <194
605,'UIMAL','2002-10-03',78,66,56>;
Query OK, 1 row affected <0.04 sec>
MariaDB [db7]> INSERT INTO STUDENT <REGNO,NAME,DOB,MARK1,MARK2,MARK3>VALUES <194
606,'JANANI','2003-10-03',34,22,52>;
Query OK, 1 row affected <0.06 sec>
MariaDB [db7]> INSERT INTO STUDENT <REGNO,NAME,DOB,MARK1,MARK2,MARK3>VALUES <194
607,'NANDHINI','2004-10-03',54,74,52>;
Query OK, 1 row affected <0.04 sec>
MariaDB [db7]> INSERT INTO STUDENT <REGNO,NAME,DOB,MARK1,MARK2,MARK3>VALUES <194
608,'NITHIYA','2005-08-03',78,68,56>;
Query OK, 1 row affected <0.03 sec>
MariaDB [db7]> INSERT INTO STUDENT <REGNO,NAME,DOB,MARK1,MARK2,MARK3>VALUES <194
609,'RAJA','2000-01-03',33,23,53>;
Query OK, 1 row affected <0.03 sec>
MariaDB [db7]>
```

```
on mysql -u root
MariaDB [db7]> INSERT INTO STUDENT <REGNO,NAME,DOB,MARK1,MARK2,MARK3>VALUES <194
608,'NITHIYA','2005-08-03',78,68,56>;
Query OK, 1 row affected <0.03 sec>
MariaDB [db7]> INSERT INTO STUDENT <REGNO,NAME,DOB,MARK1,MARK2,MARK3>VALUES <194
609,'JERIN','2001-11-23',99,77,55>;
Query OK, 1 row affected <0.04 sec>
MariaDB [db7]> INSERT INTO STUDENT <REGNO,NAME,DOB,MARK1,MARK2,MARK3>VALUES <194
610,'SATHEESH','2001-07-03',14,10,50>;
Query OK, 1 row affected <0.04 sec>
MariaDB [db7]> INSERT INTO STUDENT <REGNO,NAME,DOB,MARK1,MARK2,MARK3>VALUES <194
611,'RAJA','2000-01-03',33,23,53>;
Query OK, 1 row affected <0.03 sec>
MariaDB [db7]> SELECT * FROM STUDENT ;
+-----+-----+-----+-----+-----+-----+-----+
| REGNO | NAME  | DOB   | MARK1 | MARK2 | MARK3 | TOTAL |
+-----+-----+-----+-----+-----+-----+-----+
| 194601 | ANAND | 2000-10-03 | 98    | 78    | 56    | NULL  |
| 194602 | AMAL  | 2001-10-03 | 95    | 74    | 52    | NULL  |
| 194603 | VELMURUGAN | 2002-10-03 | 40    | 35    | 30    | NULL  |
| 194604 | NIMAL  | 2003-10-03 | 88    | 75    | 56    | NULL  |
| 194605 | UIMAL  | 2002-10-03 | 78    | 66    | 56    | NULL  |
| 194606 | JANANI | 2003-10-03 | 34    | 22    | 52    | NULL  |
| 194607 | NANDHINI | 2004-10-03 | 54    | 74    | 52    | NULL  |
| 194608 | NITHIYA | 2005-08-03 | 78    | 68    | 56    | NULL  |
| 194609 | JERIN  | 2001-11-23 | 99    | 77    | 55    | NULL  |
| 194610 | SATHEESH | 2001-07-03 | 14    | 10    | 50    | NULL  |
| 194611 | RAJA   | 2000-01-03 | 33    | 23    | 53    | NULL  |
+-----+-----+-----+-----+-----+-----+-----+
11 rows in set <0.00 sec>

MariaDB [db7]> UPDATE STUDENT SET TOTAL = MARK1+MARK2+MARK3 ;
Query OK, 11 rows affected <0.15 sec>
Rows matched: 11  Changed: 11  Warnings: 0
MariaDB [db7]>
MariaDB [db7]> SELECT * FROM STUDENT ;
+-----+-----+-----+-----+-----+-----+-----+
| REGNO | NAME  | DOB   | MARK1 | MARK2 | MARK3 | TOTAL |
+-----+-----+-----+-----+-----+-----+-----+
| 194601 | ANAND | 2000-10-03 | 98    | 78    | 56    | 232  |
| 194602 | AMAL  | 2001-10-03 | 95    | 74    | 52    | 221  |
| 194603 | VELMURUGAN | 2002-10-03 | 40    | 35    | 30    | 105  |
| 194604 | NIMAL  | 2003-10-03 | 88    | 75    | 56    | 219  |
| 194605 | UIMAL  | 2002-10-03 | 78    | 66    | 56    | 200  |
| 194606 | JANANI | 2003-10-03 | 34    | 22    | 52    | 108  |
| 194607 | NANDHINI | 2004-10-03 | 54    | 74    | 52    | 180  |
| 194608 | NITHIYA | 2005-08-03 | 78    | 68    | 56    | 202  |
| 194609 | JERIN  | 2001-11-23 | 99    | 77    | 55    | 231  |
| 194610 | SATHEESH | 2001-07-03 | 14    | 10    | 50    | 44   |
| 194611 | RAJA   | 2000-01-03 | 33    | 23    | 53    | 109  |
+-----+-----+-----+-----+-----+-----+-----+
11 rows in set <0.00 sec>
```

Untitled - Notepad

```
File Edit Format View Help
```

mysql -u root

```
MariaDB [db7]> SELECT REGNO,NAME,MIN(TOTAL) FROM STUDENT;
+-----+-----+-----+
| REGNO | NAME  | MIN(TOTAL) |
+-----+-----+-----+
| 194601 | ANAND |        44 |
+-----+-----+-----+
1 row in set (0.00 sec)

MariaDB [db7]> SELECT REGNO,NAME,MAX(TOTAL) FROM STUDENT;
+-----+-----+-----+
| REGNO | NAME  | MAX(TOTAL) |
+-----+-----+-----+
| 194601 | ANAND |       232 |
+-----+-----+-----+
1 row in set (0.00 sec)

MariaDB [db7]> SELECT REGNO,NAME,AUG(TOTAL) FROM STUDENT;
+-----+-----+-----+
| REGNO | NAME  | AUG(TOTAL) |
+-----+-----+-----+
| 194601 | ANAND | 172.8182 |
+-----+-----+-----+
1 row in set (0.00 sec)

MariaDB [db7]> SELECT REGNO, COUNT(NAME)
    > FROM STUDENT WHERE REGNO
    > AND (MARK1<50 OR MARK2<50 OR MARK3<50);
+-----+-----+
| REGNO | COUNT(NAME) |
+-----+-----+
| 194603 |          4 |
+-----+-----+
1 row in set (0.00 sec)
```



Untitled - Notepad

```
File Edit Format View Help
```

mysql -u root

```
MariaDB [db7]> SELECT REGNO,NAME,DOB FROM STUDENT GROUP BY DOB;
+-----+-----+-----+
| REGNO | NAME   | DOB      |
+-----+-----+-----+
| 194611 | RAJA   | 2000-01-03 |
| 194601 | ANAND  | 2000-01-03 |
| 194603 | SHREESH | 2001-07-11 |
| 194602 | OMAL   | 2001-10-03 |
| 194609 | JERIN  | 2001-11-23 |
| 194603 | VELMURUGAN | 2002-10-03 |
| 194605 | NITHINI | 2003-06-03 |
| 194607 | NITHINI  | 2003-10-03 |
| 194608 | NITHIYA | 2005-08-03 |
+-----+-----+-----+
9 rows in set (0.00 sec)

MariaDB [db7]> SELECT REGNO,NAME,TOTAL FROM STUDENT ORDER BY NAME ASC;
+-----+-----+-----+
| REGNO | NAME   | TOTAL  |
+-----+-----+-----+
| 194602 | OMAL   | 221   |
| 194601 | ANAND  | 232   |
| 194606 | JANANI | 158   |
| 194609 | JERIN  | 231   |
| 194603 | SHREESH | 199   |
| 194604 | NIMMI  | 219   |
| 194608 | NITHIYA | 202   |
| 194611 | RAJA   | 169   |
| 194605 | VELMURUGAN | 195   |
| 194608 | UIMAL  | 200   |
+-----+-----+-----+
11 rows in set (0.00 sec)
```



Ex.No.18**Conditional and Looping Statements****Aim:**

To write a python program using Conditional and Looping Statements.

Program:

```
num_list = list()
i=1
num = input("Enter number value: ")
while i<=num:
    val = input("Enter %d number: " %(i) )
    num_list.append(val)
    i += 1
print "Entered List Values are ",
for x in num_list:
    print x,
#Sorting Algorithm
i,j = 0, 0
for i in range(0,num):
    for j in range(i,num):
        if num_list[i]>num_list[j]:
            tmp = num_list[i]
            num_list[i] = num_list[j]
            num_list[j] = tmp
```

```
#Display Sorted List  
print "\nSorted List Values are ",  
for x in num_list:  
    print x,
```

Result:

Thus a python program is written using conditional and looping statement.

Output:

The screenshot shows a Windows desktop environment. In the center is a Command Prompt window titled "cmd Command Prompt". The window contains the following text output from a Python script named "ex.py":

```
C:\Python27>ex.py
Enter number value: 5
Enter 1 number: 45
Enter 2 number: 67
Enter 3 number: 89
Enter 4 number: 34
Enter 5 number: 21
Entered List Values are  45 67 89 34 21
Sorted List Values are  21 34 45 67 89
C:\Python27>
```

The desktop background is blue, and the taskbar at the bottom features several icons for common applications like File Explorer, Internet Explorer, and Google Chrome.

Ex.No.19**File Handling Operations****Aim :**

To write a python program to perform File Handling Operations.

Program:

```
stud_names=list()
print "Enter Names one by one ('quit' to exit)"
val=""
while 1:
    val = raw_input("Student Name: ")
    if val == 'quit':
        break
    stud_names.append(val)
#sorting names
stud_names.sort()
#print stud_names
i=1
fo = open("studlist.txt","w")
for name in stud_names:
    fo.write("%d\t%s\n" %(i,name))
    i+=1
fo.close()
print "Content Written to File"
fo = open("studlist.txt","r")
```

```
print "Student Name List\n"
print "RollNo\t Name"
for line in fo:
    print line,
```

Result:

Thus a python program is written to perform file operations.

Output

The screenshot shows a Windows Command Prompt window titled "Command Prompt". The command entered is "C:\>cd Python27". The next command is "C:\Python27>ex19.py". The script prompts the user to "Enter Names one by one ('quit' to exit)". The user enters several names: "raja", "rani", "mani", "roja", and "quit". The script then outputs "Content Written to File" and "Student Name List". Below this, it displays a table with two columns: "RollNo" and "Name". The data in the table is:

RollNo	Name
1	mani
2	rani
3	raja
4	rani
5	roja

The command prompt ends with "C:\Python27>".

Ex.No.20

Exception Handling

Aim:

To write a python program to demonstrate Exception Handling.

Program:

```
List = [10,3,'a', 0, 2]

for x in List:

    try:

        print "The value is", x

        r = 1.0/int(x)

        print "The value of",x,"is",r

    except ValueError:

        print "Cannot Convert String to Integer!"

    except ZeroDivisionError:

        print "Cannot Divide by Zero"
```

Result:

Thus a python program is written to demonstrate Exception Handling.

Output:

The screenshot shows a Windows desktop environment. In the center, there is a Command Prompt window titled "Command Prompt" with the path "C:\Python27>". The window displays the following output from running the script "ex20.py":

```
C:\Python27>ex20.py
The value is 10
The value of 10 is 0.1
The value is 3
The value of 3 is 0.333333333333
The value is a
Cannot Convert String to Integer!
The value is 0
Cannot Divide by Zero
The value is 2
The value of 2 is 0.5
C:\Python27>_
```

To the left of the Command Prompt window, there is a small "Untitled - Notepad" window. At the bottom of the screen, there is a taskbar with several icons, including the Start button, File Explorer, Internet Explorer, Excel, Word, and others.