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Course - MCA
Subject - Scripting languages and Statistical Data Analytics with R

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Ques 1. Define a method name as "validate()" to check any blank entry any input field. If so then display all unfilled fields in a single alert box.

Soln:

```
<html>
<head>
<title> Validate </title>
</head>
<body>
<form onsubmit = "return validate()">
Username: <input type = "text" id = "Uname"><br><br>
Password: <input type = "Password" id = "Pname"><br><br>
<button> Submit </button>
</form>
<Script>
let u = document.getelementById("Uname");
let P = document.getelement Byid ("Pname");
function validate()
{
if (u.Value.trim() == " " || P.value.trim() == " ")
{
alert("Unfilled fields");
return false;
}
else
return true;
}
</Script>
```

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Ques 2 Create a Student Registration in PHP and Save and Display the Student Records.

Sol^n

```
<html>
<head>
<title> general form </title>
</head>
<body bgcolor="aakk">
<form action="<?php $_PHP_SELF ?>" method="POST">
Name:
<input type="text" name="txtname">
<br><br>
Roll no.:
<input type="text" name="txtr_no">
<br><br>
Gender:
<input type="text" name="txtgen">
<br><br>
Address:
<textarea name="add" type="textarea"></textarea>
<br><br>
<input type="Submit" name="insert" value="Save">
<input type="Reset" value="Cancel">
</form>
</body>
</html>
<?php
if(issed($_POST['insert']))
{
$con=mysql_connect("localhost","root","");
if($con)
{
```

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```
echo "MySql Connection OK <br>";
mysql_select_db("Studinfo", $con);
$name = strval ($_POST['txtname']);
$rollno = intval($_POST['txtr_no']);
$gender = strval ($_POST['txtgen']);
$address = strval ($_POST['add']);
$insert="insert into info values ('$name', $rollno, '$gender',
'$address')";
if (mysql_query ( $insert.$con))
{
echo "Data inserted Successfully <br>";
}
$query = "select * from info";
$ldt = mysql_query ($query, $con);
echo{"<table border='1'>
<tr>
 <th> Name </th>
 <th>Roll No </th>
 <th> Gender </th>
 <th> Address </th>
 <tr>";
 while ($row=mysql_fetch_array($ldt))
{ echo "<tr>";
   echo "<td>".$row['name']."</td>";
   echo "<td>".$row['roll no']."</td>";
   echo "<td>".$row['gen']."</td>";
   echo"<td>".$row['address']."</td>";
   echo "</tr>";
} echo"</table>";
 mysql_close ($con);
} } ?>
```

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Ques 3 Analyze any csv dataset using R.

Soln

```
//Code
library(dplyr)
library(ggplot2)
setwd("M:/rdang/rp")
getwd()
data<-read.csv("mud1.csv")
view(data)
head(data)
tail(data)
tail(data,10)
str(data)
summary(data)
data$`state.Length
Sum(is.na(data))
ggplot(data,aes(y=State,x=murderss))+geom_bar(stat
="identity")
ggplot(data,aes(y=State,x=gunmurders))+geom_bar(
stat="identity")
ggplot(data,aes(x=murderss,y=region))+geom_boxplot()
data_size<-factor(data)
str(data_size)
Summary(data_size)
levels(data_size)
data_table<-table(data_size)
Pie(data_table)
ggplot(data,aes(y=murderss,fill=region,x=region))+
geom_bar(width=1,stat="identity")+coord_Polar("x",
start=0)
```

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Ques 5

Soln

Discuss Descriptive and inferential Statistics of above dataset.

Descriptive Statistics - It is used to summarize the attributes of a sample in such a way that a pattern can be drawn from the group. It enables researchers to present data in a more meaningful way such that easy interpretation can be made.

Population
- Minimum → 563626
- Median → 6075769
- Mean → 4339367

Population density
- Mean → 394.549
- Median → 102.600
- max → 10298.000
- Min → 1.264

Murders
- Min → 7.0
- Median → 151.0
- Mean → 273.2
- max → 1811.0

Gun Murders
- Min → 2.0
- Median → 97.0
- Mean → 184.4
- Max → 1257.0

Inferential Statistics

Inferential Statistics is a branch of statistics that is used to make inferences about the population by analyzing a sample, when the population data is large it becomes difficult to use it. Inferential statistics are as follows -

(i) Hypothesis Testing (z test, t test)

(ii) Regression Testing (check relationship between dependent variable & independent variable)

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