

# END-TERM PRACTICAL

## "Scripting Languages - R"

1

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Course - MCA (I-B)

Ans(1)

```
<html>
```

```
<head>
```

```
<title> display data in table format </title>
```

```
</head>
```

```
<body>
```

```
<?php
```

```
$con = mysql_connect("localhost", "root", "");
```

```
if (!$con)
```

```
{ die("not connected".mysql_error());
```

```
}
```

```
echo "connection open". "<br/>";
```

```
$sldb = mysql_select_db("coupt", $con);
```

```
if (!$sldb)
```

```
{ die("not found".mysql_error());
```

```
}
```

```
echo "Database selected". "<br/>";
```

\$query = "select \* from customer;

(2)

\$sql = mysql\_query(\$query);

echo "<table border = '1'>

<tr>

<th> C\_No </th>

<th> C\_Name </th>

<th> Item-Purchased </th>

<th> Mob-no </th>

</tr>";

while (\$row = mysql\_fetch\_array(\$sql))

{

echo "<tr>";

echo "<td>" . \$row['c-no'] . "</td>";

echo "<td>" . \$row['c-name'] . "</td>";

echo "<td>" . \$row['item-purchased'] . "</td>";

echo "<td>" . \$row['mob-no'] . "</td>";

echo "</tr>";

}

echo "</table>";

?>

</body>

</html>

```
"); $sldb = mysql_select_db("coust",$con); if(!$sldb) { die("not found".mysql_error()); } echo "Database selected".  
"; $query = "select * from customer"; $sql = mysql_query($query); echo ""; while($row = mysql_fetch_array($sql)) { echo ""; echo ""; echo ""; echo ""; echo ""; echo ""; } echo "
```

C_No	C_Name	Item_Purchased	Mob_no
".\$row['c_no']."	".\$row['c_name']."	".\$row['item_purchased']."	".\$row['mob_no']."



Ans 2

(3)

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<script src = "https://ajax.googleapis.com  
/ajax/libs/jquery/3.4.0/jquery  
.min.js">
```

```
</script>
```

```
<script>
```

```
$(document).ready(function() {
```

```
$("#hide").click(function() {
```

```
$("#p").hide();
```

```
});
```

```
$("#show").click(function() {
```

```
$("#p").show();
```

```
});
```

```
});
```

```
</script>
```

```
</head>
```

```
<body>
```

```
<h2> Program to show and hide using jquery</h2>
```

```
<p> Hi this is javascript and today is a good  
day</p>
```

# Program to show and hide using jQuery

Hi this is javascript and today is a good day

```
<button id="hide">hide </button>
<button id="show">show </button>
</body>
</html>
```

(4)

Ans (3) & (4)

### Analysing csv dataset

# here the dataset is on murders of different states in different regions. we will now study the sheet and plot various graphs.

⇒ setting working directory

```
setwd("M:/rlang/sp")
```

⇒ reading of .csv file

```
<- read.csv("mur1.csv")
```

### Descriptive statistics on dataset mur1

# here using "ggplot2 library" & "dplyr library"

① histogram -

```
ggplot(data, aes(y=state, x=gunmurders)) +
  geom_bar(stat="identity")
```



## ② piechart

```
ggplot(data, aes(y = murders, fill = region,
  .x = region)) +
  geom_bar(width = 1, stat = "identity") +
  coord_polar("x", start = 0)
```

## ③ Scatter plot

```
ggplot(data, aes(y = population Density, x =
  murders, group = population Density, colour =
  murders)) + geom_line() + geom_point()
```

## ④ Boxplot

```
ggplot(data, aes(x = murders, y = region))
+ geom_boxplot()
```

Code for viewing dataset, summary, top 5  
datapoints, structure of dataset etc

- setwd("M:/slang/rp")
- getwd()
- data <- read.csv("mud1.csv")

⑥

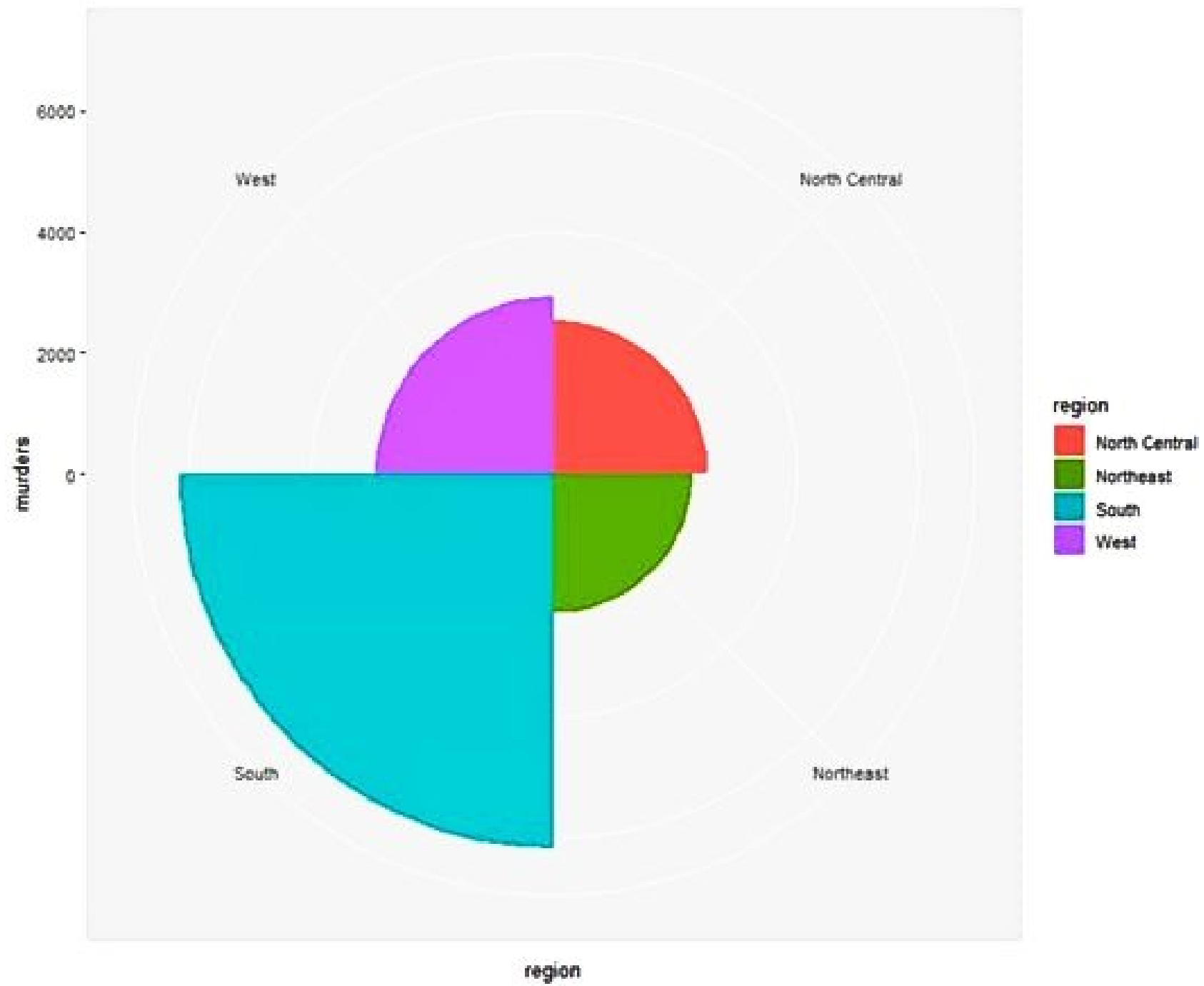
- view(data)
- head(data)
- tail(data)
- tail(data, 10) #reading least 10 datapoints
- str(data)
- summary(data)
- data %>% state.length
- sum(is.na(data))
- data\_size <- factor(data)
- str(data\_size)
- summary(data\_size)
- levels(data\_size)
- data\_table <- table(data\_size)
- pie(data\_table)

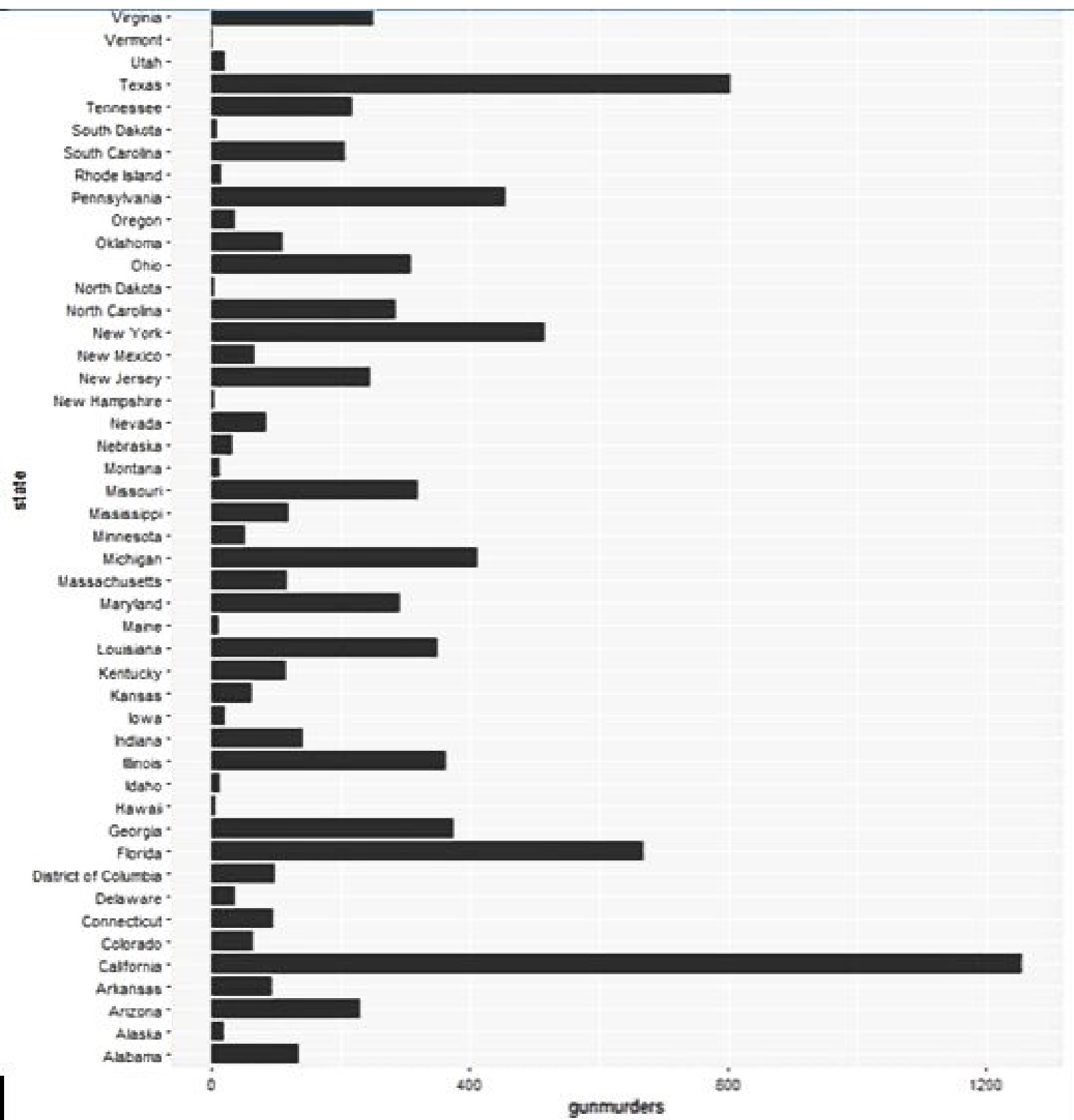
## Inference from the statistical data on dataset

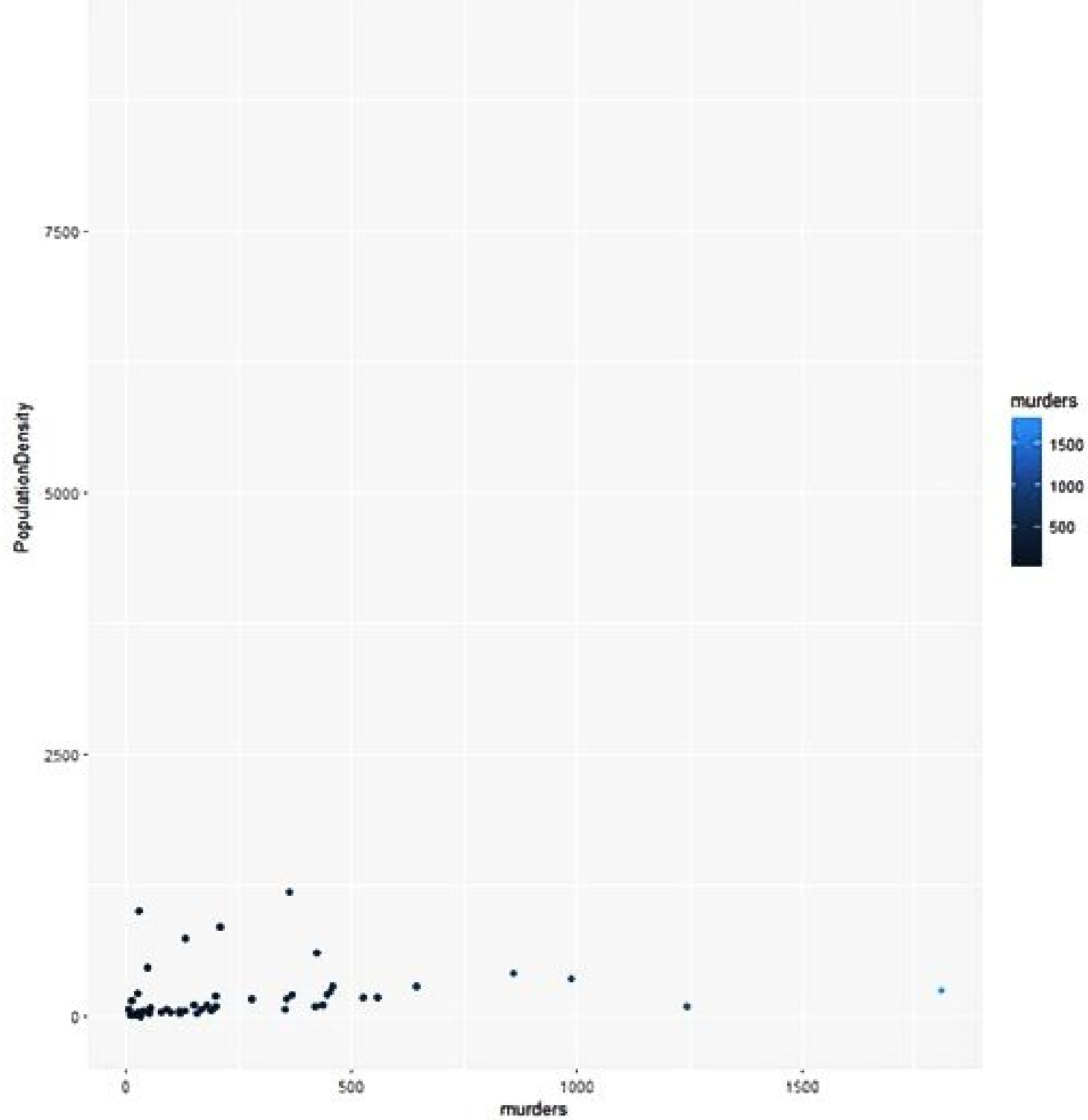
mod 1

- ① California state of West Region experiences most murders & gunmurders
- ② Vermont state of North-east region experiences least murders and gunmurders
- ③ Wyoming state of west region tops when it comes to having maximum gunownership which is 0.5970

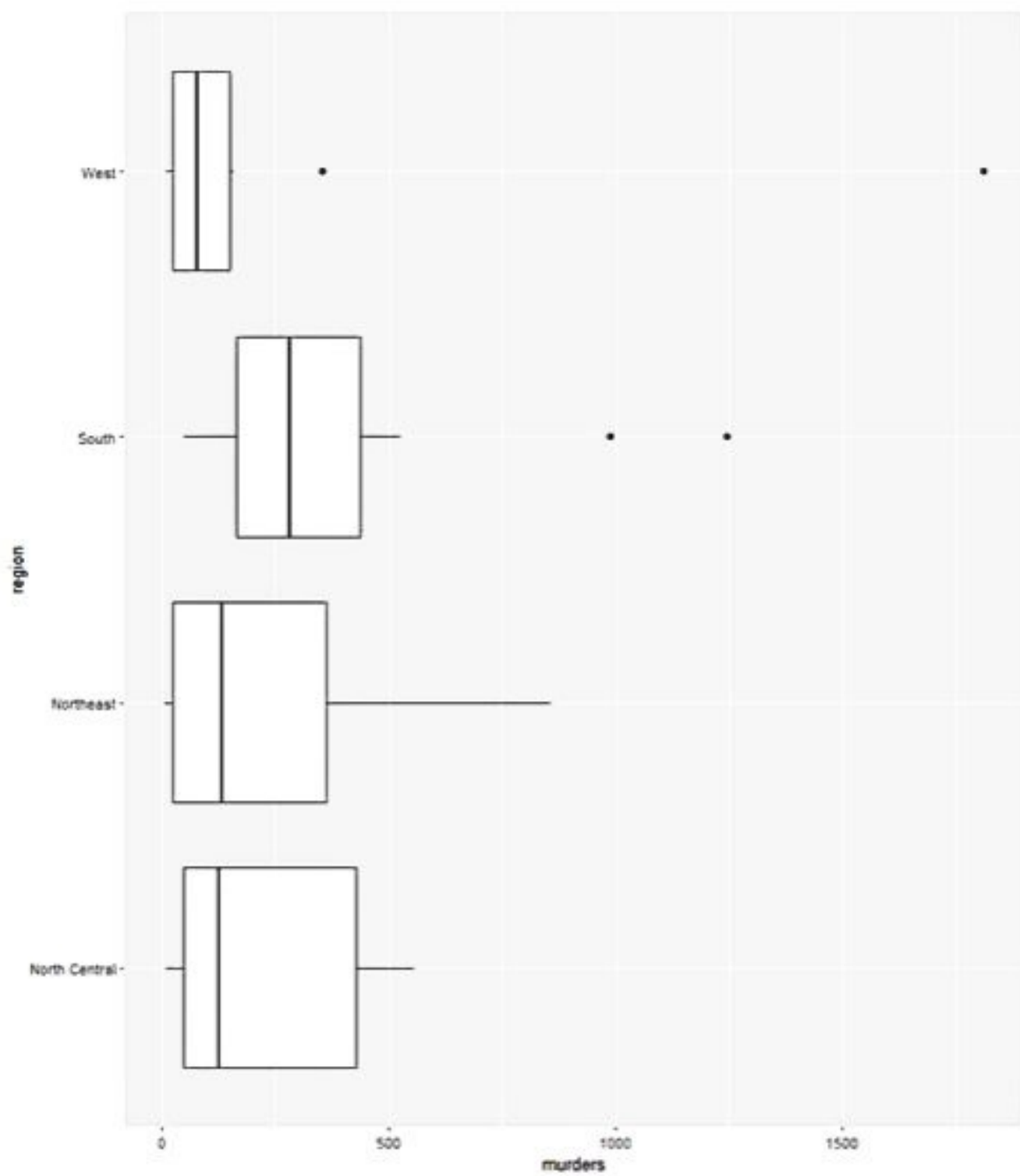












```

R 4.1.1 - Murders
> library(dplyr)
> library(ggplot2)
> setwd("~/Rlang/rp")
> getwd()
[1] "~/Rlang/rp"
> data<- read.csv("mur1.csv")
> View(data)
> head(data)
  state abb region population PopulationDensity murders gunmurders gunownership
1  Alabama AL South  4779736      94.650      199       135      0.517
2  Alaska AK West   710231      1.264       31       19      0.578
3  Arizona AZ West  6392017     37.050     352     232      0.311
4  Arkansas AR South 2915918     19.430     130      93      0.513
5  California CA West 17253956    244.200    1811    1257     0.213
6  Colorado CO West  5029196     49.130     117      65      0.347

> tail(data)
  state abb region population PopulationDensity murders gunmurders gunownership
46 Vermont VT Northeast  625741      67.730       7       2      0.420
47 Virginia VA South   8005024     207.300     369     250      0.351
48 Washington WA West   6724540     102.600     151      93      0.131
49 West Virginia WV South  1852994      77.060      55      27      0.554
50 Wisconsin WI North Central 5686986     105.200     151      97      0.444
51 Wyoming WY West   563626      5.851       8       5      0.197

> tail(data,10)
  state abb region population PopulationDensity murders gunmurders gunownership
42 South Dakota SD North Central  814180     10.860      14       8      0.166
43 Tennessee TN South   6346101    256.600     356     219      0.439
44 Texas TX South  25145561    98.070    1246     805      0.359
45 Utah UT West   3783685     34.300      52      22      0.439
46 Vermont VT Northeast  625741      67.730       7       2      0.420
47 Virginia VA South   8005024     207.300     369     250      0.351
48 Washington WA West   6724540     102.600     151      93      0.131
49 West Virginia WV South  1852994      77.060      55      27      0.554
50 Wisconsin WI North Central 5686986     105.200     151      97      0.444
51 Wyoming WY West   563626      5.851       8       5      0.197

> str(data)
'data.frame':   51 obs. of  8 variables:
 $ state      : chr  "Alabama" "Alaska" "Arizona" "Arkansas" ...
 $ abb        : chr  "AL" "AK" "AZ" "AR" ...
 $ region     : chr  "South" "West" "West" "South" ...
 $ population : int   4779736 710231 6392017 2915918 17253956 5029196 3574097 897934 601725 19687653 ...
 $ PopulationDensity: num  94.65 1.26 37.05 19.43 244.2 ...
 $ murders    : int   199 31 352 130 1811 117 131 48 131 947 ...
 $ gunmurders  : int   135 19 232 93 1257 65 97 38 99 669 ...
 $ gunownership : num  0.517 0.578 0.311 0.551 0.213 0.347 0.167 0.355 0.098 0.245 ...

> summary(data)
  state      abb      region      population      PopulationDensity      murders      gunmurders      gunownership
Length:51   Length:51   Length:51   Min.   : 563626   Min.   : 1.264   Min.   : 7.0   Min.   : 2.0   Min.   :0.0960
Class :character Class :character Class :character 1st Qu.: 5686982 1st Qu.: 48.585 1st Qu.: 49.5 1st Qu.: 24.5 1st Qu.:0.3055
Mode :character Mode :character Mode :character Median : 4339387 Median : 102.600 Median : 151.0 Median : 97.0 Median :0.1960
Mean : 6071769 Mean : 194.549 Mean : 273.2 Mean : 184.4 Mean :0.3695
3rd Qu.: 8836084 3rd Qu.: 224.350 3rd Qu.: 384.0 3rd Qu.: 268.0 3rd Qu.:0.4400
Max.   :17253956 Max.   :10298.000 Max.   :1811.0 Max.   :1257.0 Max.   :0.5870

> data$state.Length
NULL
> sum(is.na(data))
[1] 0
> ggplot(data, aes(y=state, x=murders))+ geom_bar(stat = "identity")
> ggplot(data, aes(y=state, x=gunmurders))+ geom_bar(stat = "identity")
> ggplot(data, aes(y =PopulationDensity, x =murders, group=PopulationDensity, colour=murders)) +geom_line() + geom_point()

```