

NAME
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UNIV ROLL - 2101101
ENROLL NO - PU-21010101

COURSE - MCA 1ST SEM

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SCRIPTING LANGUAGE AND R LAR
PMC 103

Ans 1

```
<html>
<body>
  <div class = "mail">
    <h2> Input your Name and Submit the form </h2>
    <form name = "form1" action = "#" onsubmit = "validate()">
      <ul>
        <li> <input type = 'text' name = 'name1' placeholder
              = 'first name' /> </li>
        <li> <input type = 'text' name = 'name2' placeholder
              = 'last name' /> </li>
        <li> <input type = "submit" name = "submit" value
              = "Submit" /> </li>
      </ul>
    </form>
  </div>
  <script>
    function validate() {
      var empt1 = document.forms["form1"]["name1"].
                      value;
      var empt2 = document.forms["form1"]["name2"].value;

      if (empt1 == "" && empt2 == "") {
        alert("Enter first name \n Enter last name");
      }
      else if (empt1 == "" && empt2 != "") {
        alert("Enter first name");
      }
      else if (empt1 != "" && empt2 == "") {

```

kuldeep

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```
    alert ("Enter last name");  
  }  
}  
</script>  
</body>  
</html>
```

Ans. 2

```
<html>  
<head>  
  <title> Student Registration form </title>  
</head>  
<body>  
  <form action = "<?php $_PHP_SELF?>" method = "post">  
    Name:  
    <input type = "text" name = "Lname">  
    <br><br>  
    Roll No:  
    <input type = "text" name = "Rollno">  
    <br><br>  
    Course:  
    <input type = "text" name = "Course">  
    <br><br>  
    Address:  
    <textarea name = "add" type = "textarea"></textarea>  
    <br><br>  
    <input type = "Submit" name = "insert" value = "submit">  
    <input type = "Reset" value = "Reset">  
  </form>  
</body>  
</html>
```

Pratik

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```

<?php
if(isset($_POST['insert']))
{
    $con = mysql_connect("localhost", "root", "");
    if($con)
        echo "Mysql connection successful <br>";
    mysql_select_db("studinfo", $con);
    $name = stripslashes($_POST['fname']);
    $rollno = intval($_POST['rollno']);
    $course = stripslashes($_POST['course']);
    $address = stripslashes($_POST['add']);

    $insert = "insert into info values('$name', '$rollno', '$course', '$address')";
    if(mysql_query($insert, $con))
    {
        echo "Data inserted successfully <br>";
    }
    $query = "select * from info";
    $sldt = mysql_query($query, $con);

    echo "<table border = '2'>
    <br>
        <th> Name </th>
        <th> Roll No </th>
        <th> Course </th>
        <th> Address </th>
    </th>";
    while($row = mysql_fetch_array($sldt))
    {
        echo "<br>";
    }
}

```

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 echo "<td>". \$row['name']. "</td>";
 echo "<td>". \$row['villno']. "</td>";
 echo "<td>". \$row['course']. "</td>";
 echo "<td>". \$row['address']. "</td>";
 echo "</tr>"

}

echo "</table>";

mysql_close(\$con);

}

}

>>

Ans. `data <- read.csv("input.csv")`
`print(data)`

O.P

| | id | name | salary | join-date | department |
|---|----|--------|--------|------------|------------|
| 1 | 1 | Aman | 5000 | 01-01-2018 | IT |
| 2 | 2 | Ayush | 8000 | 10-11-2019 | HR |
| 3 | 3 | Deepak | 3000 | 5-7-2020 | IT |
| 4 | 4 | Ram | 10000 | 17-2-2015 | Finance |
| 5 | 5 | Karan | 7000 | 4-3-2017 | HR |

`print(ncol(data))` # number of columns
`print(nrow(data))` # number of rows

OP [1] 5
 [1] 5

`sal <- max(data$salary)` # maximum salary
`print(sal)`

O.P [1] 10000

`retval <- subset(data, salary == max(salary))`
`print(retval)` # data of max salary person

O.P

| | id | name | salary | join-date | department |
|---|----|------|--------|-----------|------------|
| 4 | 4 | Ram | 10000 | 17-2-2015 | Finance |

`retval <- subset(data, dept == "IT")`
`print(retval)` # details of IT workers

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Q.P

| | id | name | salary | join-date | dept |
|---|----|--------|--------|-----------|------|
| 1 | 1 | Aman | 5000 | 1-1-2018 | IT |
| 3 | 3 | Deepak | 3000 | 5-7-2020 | IT |

```
reval <- subset(data, as.Date("join-date") > as.Date("2015-5-2018"))
print(reval) # person with joining date after 20-5-2018
```

Q.P

| | id | name | salary | join-date | dept |
|---|----|--------|--------|------------|------|
| 2 | 2 | Ayush | 8000 | 10-11-2017 | HR |
| 3 | 3 | Deepak | 3000 | 5-7-2020 | IT |

```
mean(data$salary) # finding mean
```

Q.P 6600

```
median(data$salary) # finding median
```

Q.P 7000

Ans 4. Descriptive statistics

It is used to describe the characteristics or features of a data set.

1. Distribution

It shows us the frequency of different outcomes

distribution of department in our data

IT : 2
 HR : 2
 Finance : 1

2. Central tendency

- Mean of salary in our data : 6600
- Median of salary in our data : 7000
- Mode can't defines because all values are different.

3. Variability

- Standard deviation - count $N: 5$
 sum, $\Sigma X: 33000$
 Mean, $\mu: 6600$
 Variance, $\sigma^2 = 5840000$

Steps

$$\sigma = \sqrt{\frac{1}{N} \sum_{i=1}^N (x_i - \mu)^2}$$

$$\sigma = \frac{\sum (x_i - \mu)^2}{N}$$

$$= \frac{(5000 - 6600)^2 + \dots + (7000 - 6600)^2}{5}$$

$$= \frac{29200000}{5}$$

$$= 5840000$$

$$\sigma = \sqrt{5840000}$$

$$= 2416.6091$$

Kuldeep

Min & Max value : 3000 & 10000

Range : 7000

Kurtosis : -0.661178

Skewness : -0.182523

Inferential statistics

It focus on making generalizations about a larger population based on a representative sample of that population. Because it focuses on making predictions, its results are usually in the form of probability.

To understand inferential statistics, we have to have basic knowledge about the following topics

- The basic definition of probability
- The multiplication rule of probability
- The addition rule of probability
- nCr (Combination)

mean of sample : 5000, 7000, 6000
= 6666.66

median = 7000

so we can say the sample of the population is pretty much defines the population.

outlier