

Unit 7 - Week 6 - Data management with display paste, split, find and replacement, manipulations with alphabets, evaluation of strings, data frames.

Course outline
How to access the portal
Week - 1 - Basic fundamentals, installation and use of software, data editing, use of R as a calculator, functions and assignments.
Week 2 - Use of R as a calculator, functions and matrix operations, missing data and logical operators.
Week 3 - Conditional executions and loops, data management with sequences.
Week 4 - Data management with repeats, sorting, ordering, and lists
Week 5 - Vector indexing, factors, Data management with strings, display and formatting.
Week 6 - Data management with display paste, split, find and replacement, manipulations with alphabets, evaluation of strings, data frames.
<input type="radio"/> Lecture 30 : Data frames
<input checked="" type="radio"/> Lecture 31 : Data frames (Continued)
<input type="radio"/> Lecture 32 : Data frames (Continued)
<input checked="" type="radio"/> Lecture 33 : Data Handling - Importing CSV and Tabular Data Files
<input checked="" type="radio"/> Lecture 34: Data Handling - Importing Data Files from Other Software
<input type="radio"/> Quiz : Assignment 6
<input type="radio"/> Feedback Form
<input type="radio"/> Assignment 6 Solution
Week 7 - Data frames, import of external data in various file formats, statistical functions, compilation of data.
Week 8 - Graphics and plots, statistical functions for central tendency, variation, skewness and kurtosis, handling of bivariate data through graphics, correlations, programming and illustration with examples.
TEXT TRANSCRIPTS
DOWNLOAD VIDEOS
Live Session

Assignment 6

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

Due on 2019-10-09, 23:59 IST.

1) Which one of the following are the respective correct commands to obtain the names of columns and rows in a data frame `cities` ? 1 point

- `colnames(cities)` and `rownames(cities)`
- `colname(cities)` and `rowname(cities)`
- `coln(cities)` and `rown(cities)`
- `cnames(cities)` and `rnames(cities)`

No, the answer is incorrect.

Score: 0

Accepted Answers:
`colnames(cities)` and `rownames(cities)`

2) Which one of the following is the correct command to obtain the dimension, name, and type of each variable in a data frame `cities` ? 1 point

- `string(cities)`
- `strname(cities)`
- `str(cities)`
- `stringname(cities)`

No, the answer is incorrect.

Score: 0

Accepted Answers:
`str(cities)`

3) Which one of the following is the correct command to extract the variable `villages` from a data frame `cities` ? 1 point

- `suzuki$cities`
- `name(cities$villages)`
- `name(villages$cities)`
- `cities$villages`

No, the answer is incorrect.

Score: 0

Accepted Answers:
`cities$villages`

4) Which one of the following is the correct command to extract the information on the village whose name is `Village23` contained in the variable `villages` from a data frame `cities` ? 1 point

- `villages$cities$Village23`
- `cities["Village23", "villages"]`
- `Village23$cities$villages`
- `Village23[cities, villages]`

No, the answer is incorrect.

Score: 0

Accepted Answers:
`cities["Village23", "villages"]`

5) **Answer Question 5-7 on the basis of the following information:** 1 point

Consider the data frame `painters` in the library `MASS`. Use command `library(MASS)` to load the library `painters` and use the command `attach(painters)` to attach the database `painters`.

Question: Which one of the following is respectively the correct command to draw information on those painters who have used the "Colour" coded as 5 and are from "School" B from the data frame `painters` and what is the corresponding outcome?

`subset(painters, Colour==5 & School==B)`
and

	Composition	Drawing	Colour	Expression	School
Pourbus	4	15	6	6	B
Volterra	12	15	5	8	B

`subset(painters, Colour=5 & School=B)`
and

	Composition	Drawing	Colour	Expression	School
Pourbus	4	15	6	6	F
Van Leyden	8	6	6	4	F
Volterra	12	15	5	8	B

`subset(painters, Colour=='5' & School=='B')`
and

	Composition	Drawing	Colour	Expression	School
Volerra	12	15	5	8	B

`subset(painters, Colour=='5' and School=='B')`
and

	Composition	Drawing	Colour	Expression
Pourbus	4	15	6	6
Volterra	12	15	5	8

No, the answer is incorrect.

Score: 0

Accepted Answers:
`subset(painters, Colour=='5' & School=='B')`
and

	Composition	Drawing	Colour	Expression	School
Volerra	12	15	5	8	B

6) Which one of the following is respectively the correct command to draw the information on those painters who have used the "Composition" as 12 and "Expression" is less than 9 and what is the output from the data frame `painters` ? 1 point

`subset(painters, Composition =='12' & Expression < '9')`
and

	Composition	Drawing	Colour	Expression	School
Del Sarto	12	16	9	8	A
Volterra	12	15	5	8	B
Palma Giovane	12	9	14	6	D

`subset(painters, Composition =='12' & Expression < 9)`
and

	Composition	Drawing	Colour	Expression	School
Del Sarto	12	16	9	8	A
Volterra	12	15	5	8	B
Palma Giovane	12	9	14	6	D
Titian	12	15	18	6	D

`subset(painters, Composition =='12' & Expression < '9')`
and

	Composition	Drawing	Colour	Expression	School
Da Vinci	15	16	4	14	A
Guilio Romano	15	16	4	14	A
Primiticcio	15	14	7	10	B
Vanius	15	15	12	13	C
Domenichino	15	17	9	17	E
The Carracci	15	17	13	13	E
Rembrandt	15	6	17	12	G
Van Dyck	15	10	17	13	G
Le Suer	15	15	4	15	H

`subset(painters, Composition =12 & Expression < 9)`
and

	Composition	Drawing	Colour	Expression	School
Da Vinci	15	16	4	14	A
Guilio Romano	15	16	4	14	A
Raphael	17	18	12	18	A
Primiticcio	15	14	7	10	B
Barocci	14	15	6	10	C
Vanius	15	15	12	13	C
Correggio	13	13	15	12	E
Domenichino	15	17	9	17	E
The Carracci	15	17	13	13	E
Holbein	9	10	16	13	F
Otho Venius	13	14	10	10	G
Rembrandt	15	6	17	12	G
Rubens	18	13	17	17	G
Van Dyck	15	10	17	13	G
Le Brun	16	16	8	16	H
Le Suer	15	15	4	15	H
Poussin	15	17	6	15	H

No, the answer is incorrect.

Score: 0

Accepted Answers:
`subset(painters, Composition =='12' & Expression < 9)`
and

	Composition	Drawing	Colour	Expression	School
Del Sarto	12	16	9	8	A
Volterra	12	15	5	8	B
Palma Giovane	12	9	14	6	D
Titian	12	15	18	6	D

7) Which one of the following are respectively the correct commands to draw the information and output on those painters who have used the "Colour" coded as 5, "School" as B when information on the variables "Drawing" and "Expression" is removed from the data frame `painters` and its corresponding outcome? 1 point

`subset(painters, School=B & Colour=5, select=c(-2,-4))`
and

	Composition	Colour	School
Da Vinci	15	5	B
Guilio Romano	15	5	B
Michelangelo	8	5	B

`subset(painters, School=="B" & Colour=="5", select=c(-2,-4))`
and

	Composition	Drawing	Colour	Expression	School
Da Vinci	15	16	5	14	B
Guilio Romano	15	16	5	14	B
Michelangelo	8	17	5	8	B

`subset(painters, School=B & Colour=5, select=c(-2,-4))`
and

	Composition	Drawing	Colour	Expression	School
Da Vinci	15	16	5	14	B
Guilio Romano	15	16	5	14	B
Michelangelo	8	17	5	8	B

`subset(painters, School=="B" & Colour=="5", select=c(-2,-4))`
and

	Composition	Colour	School
Volterra	12	5	B

No, the answer is incorrect.

Score: 0

Accepted Answers:
`subset(painters, School=="B" & Colour=="5", select=c(-2,-4))`
and

	Composition	Colour	School
Volterra	12	5	B

8) A comma separated value data file named as `marks.csv` having header can be correctly read in R by which of the following command? 1 point

- `readcsv("marks.csv", header= TRUE)`
- `read.csv("marks.csv", header=FALSE)`
- `csvread(marks.csv, header=FALSE)`
- `read.csv("marks.csv", header= TRUE)`

No, the answer is incorrect.

Score: 0

Accepted Answers:
`read.csv("marks.csv", header= TRUE)`

9) A spread sheet created in MS-Excel software is named as `marks.xlsx` not having header. The sheet number 4 of this file can be correctly read in R by which of the following command? (Using the library "xlsx") 1 point

- `read.xlsx("marks.xlsx", sheetIndex=4, header= FALSE)`
- `read.xlsx(marks.xlsx, sheetindex=4, header= FALSE)`
- `read.excel("marks.xlsx", sheetIndex=4, header=TRUE)`
- `read.xls(marks.xlsx, sheetindex=4, header= TRUE)`

No, the answer is incorrect.

Score: 0

Accepted Answers:
`read.xlsx("marks.xlsx", sheetIndex=4, header= FALSE)`

10) A spread sheet created in MS-Excel software is named as `marks.xlsx` having header. One of the sheets in this file whose name is `Chemistry` can be read in R by which of the following command? 1 point

- `read.xlsx("marks.xlsx", sheetName="Chemistry", header=FALSE)`
- `read.excel("marks.xlsx", sheetName="Chemistry", header=TRUE)`
- `read.xlsx("marks.xlsx", sheetName="Chemistry", header=TRUE)`
- `read.xlsx("marks.xlsx", name="Chemistry", header=TRUE)`

No, the answer is incorrect.

Score: 0

Accepted Answers:
`read.xlsx("marks.xlsx", sheetName="Chemistry", header=TRUE)`