

TIME: 50 min

MM:30

1. Solve the following problems using DPLYR package. Use airquality dataset (built-in). Display top 6 rows of the dataset. Use pipe operator wherever necessary.

a) Display rows of the dataset where temperature is greater than 70 and month is after May.

b) Add another column "TempInc" Temperature in Celsius.

Hint: Formula= (Temp - 32) * 5 / 9

c) Calculate mean temperature for each month.

d) Arrange the rows of dataset in ascending and descending order of month.

e) Find out the mean temperature for every month excluding the fifth month (May). (5x2=10)

2. Use built in iris dataset. Solve the following problems using Apply functions:

a) Display mean of Sepal.Length, Sepal.Width, Petal.Length and Petal.Width.

b) Display mean of Sepal.Length, Sepal.Width, Petal.Length and Petal.Width for every Species.

c) Display maximum Sepal.Width and Petal.Width.

d) Display simplified output using appropriate apply function to convert Species to upper case.

e) Calculate mean of Sepal.Length, Sepal.Width, Petal.Length and Petal.Width which is displayed as list only.

(5x2=10)

3. a) Import ACME_DATA to R.

b) Read first worksheet of ACME_DATA

c) Find out the Gross Sales for November Month using SQL Queries.

d) Display target sales along with the months.

e) Send the output to another file "output.txt" instead of displaying on screen. (5x2=10)