**Learning Activity 4 – Data Frames and Lists**

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| Activity | * Create the following data frame.   Name Age Weight Sex  1 John 15 49 M  2 Mary 20 71 F  3 Peter 17 58 M  4 William 19 62 M  5 Kate 25 67 F   * Display the internal structure of the data frame. * Save the above script as **Activity 2\_5\_5** |
| Activity | * This activity follows from the previous one. * From the data frame, extract the age and the weight. * Extract the name and the sex and save the result in another data frame * Display this new data frame. * Save the updated script as **Activity 2\_5\_5\_2** |
| Activity | * This activity follows from the previous one. * The Height column was missed in the previous data frame and is as follows:   Height  175  155  182  167  165   * Add this information column-wise to the previous one. * Display this new data frame. * How many rows and columns does the new data frame have? * Investigate on how can the above information be obtained by using dim(). * Save the above script as **Activity 2\_5\_5\_3** |
| Activity | * This activity follows from the previous one. * Create another data frame with the following information:   Name Age Weight Sex Height  1 Micheal 22 82 M 185  2 Janet 17 44 F 169  3 Samy 33 52 F 157   * Add this data frame to the previous data frame and display the updated data frame. * Create a data frame of only the rows 2, 5, 7 and 8 and with only the columns Name, Sex, Height. * The Height of Kate has been wrongly inserted. It should have been 170. Change it in the new data frame * Display the new data frame to see the changed record. * Save the updated script as **Activity 2\_5\_5\_3** |
| Activity | * Create a list Date such that it contains the following information. You may consider creating 3 appropriate vectors.   $year  [1] 81 82 83 84 85 86 87 88 89 90  $month  [1] 1 2 3 4 5 6 7 8 9 10 11 12  $day  [1] 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15  [16] 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30  [31] 31   * Replace the values of year element in Date list with the years 00 till 10 (2000 – 2010) * Delete the value 2 of the month component of the list Date. * Save the updated script as **Activity 2\_5\_6\_3** |