**Assignment 4.1 / Shalini Raghaviah**

df1=data.frame(CustId=c(1:6),Product=c(rep(“TV”,3),rep(“Radio”,3)))

df2=data.frame(CustId=c(2,4,6),State=c(rep(“Texas”,2),rep(“NYC”,1)))

df1#left table

df2# right table

From the above dataframes, perform the following operations:

1.Return only the rows in which the left table have match.

|  |
| --- |
| df1<-data.frame(CustId=c(1:6),Product=c(rep("TV",3),rep("Radio",3)))  > df1  CustId Product  1 1 TV  2 2 TV  3 3 TV  4 4 Radio  5 5 Radio  6 6 Radio  > df2=data.frame(CustId=c(2,4,6),State=c(rep("Texas",2),rep("NYC",1)))  > df2  CustId State  1 2 Texas  2 4 Texas  3 6 NYC |
|  |
| |  | | --- | | > | |

2. Return all the rows from both tables, join records from left which have matching keys in the right table.

|  |
| --- |
| > inner\_joined<-merge(df1,df2,by="CustId")  > inner\_joined  CustId Product State  1 2 TV Texas  2 4 Radio Texas  3 6 Radio NYC  > outer\_joined<-merge(x=df1,y=df2,by="CustId",all = TRUE)  > outer\_joined  CustId Product State  1 1 TV <NA>  2 2 TV Texas  3 3 TV <NA>  4 4 Radio Texas  5 5 Radio <NA>  6 6 Radio NYC |
|  |
| |  | | --- | |  | |