```
> 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("NY))
  , 1)))
> #For the above given data frames and tables perform the following operat
ions:
> #Return only the rows in which the left table have match.
> merge1<-merge(x=df1, y=df2, by="CustId")</pre>
 merge1
  CustId Product State
1
              TV Texas
       2
2
       4
            Radio Texas
3
       6
           Radio
                    NYC
> #Returns all rows from both tables, join records from the left which hav
e matching keys in the right table.
> merge2=merge(df1, df2, \bar{b}y="CustId", all=TRUE)
> merge2
  CustId Product State
1
              TV
                   <NA>
2
       2
              TV Texas
3
       3
               TV
                   <NA>
4
       4
           Radio Texas
5
       5
           Radio
                  <NA>
       6
           Radio
                    NYC
> #Return all rows from the left table, and any rows with matching keys fr
om theright table.
> merge3<- merge(df1, df2, by="CustId", all.x = TRUE )</pre>
> merge3
  CustId Product State
1
       1
              TV
                   <NA>
2
       2
              TV Texas
3
       3
               TV
                   <NA>
           Radio Texas
4
       4
5
       5
           Radio
                  <NA>
6
       6
           Radio
                    NYC
> #Return all rows from the right table, and any rows with matching keys f
rom theleft table.
> merge4 <- merge(df1, df2, by="CustId", all.y = TRUE )</pre>
> merge4
  CustId Product State
1
       2
              TV Texas
       4
           Radio Texas
2
3
       6
           Radio
                    NYC
> library(dplyr)
> library(plyr)
> #Return a long format of the datasets without matching key.
> union_all(df1, df2)
  CustId Product State
1
       1
              TV
                   <NA>
       2
2
              TV
                   <NA>
3
       3
               TV
                   <NA>
4
       4
           Radio
                   <NA>
5
       5
           Radio
                   <NA>
       6
6
           Radio
                   <NA>
7
       2
            <NA> Texas
8
       4
             <NA> Texas
9
       6
             <NA>
                    NYC
```

```
2
2
        4
             Radio
3
        6
             Radio
> #Drop all observations in df1 that match in df2.
> anti_join(df1, df2)
Joining, by = "CustId"
   CustId Product
        1
        3
2
                \mathsf{TV}
3
        5
             Radio
```