1.
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

For the above given data frames and tables perform the following operations:
- Return only the rows in which the left table have match.
- Returns all rows from both tables, join records from the left which have matching keys in the right table.
- Return all rows from the left table, and any rows with matching keys from the right table.
- Return all rows from the right table, and any rows with matching keys from the left table.

2. Perform the below operations on above given data frames and tables:
- Return a long format of the datasets without matching key.
- Keep only observations in df1 that match in df2.
- Drop all observations in df1 that match in df2.

```
> Left <- merge(df1, df2, by.x = "CustId")
  CustId Product State
  1 2 TV Texas
  2 4 Radio Texas
  3 6 Radio NYC
```

```
Right <- merge(df1, df2, by = "CustId", all = TRUE)
  > Right
  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
```