ACADGILD ASSIGNMENT 4.1

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.

Answer:

```
df1 <-
data.frame(CustomerId=1:6,Product=c(rep('Toaster',3L),rep('Ra
dio',3L)));
df2 <-
data.frame(CustomerId=c(2L,4L,6L,7L),State=c(rep('Alabama',
2L),'Ohio','Texas'));
df1[names(df2)[-1L]] <- df2[match(df1[,1L],df2[,1L]),-1L];
df1;</pre>
```

df1;

CustomerId Product State

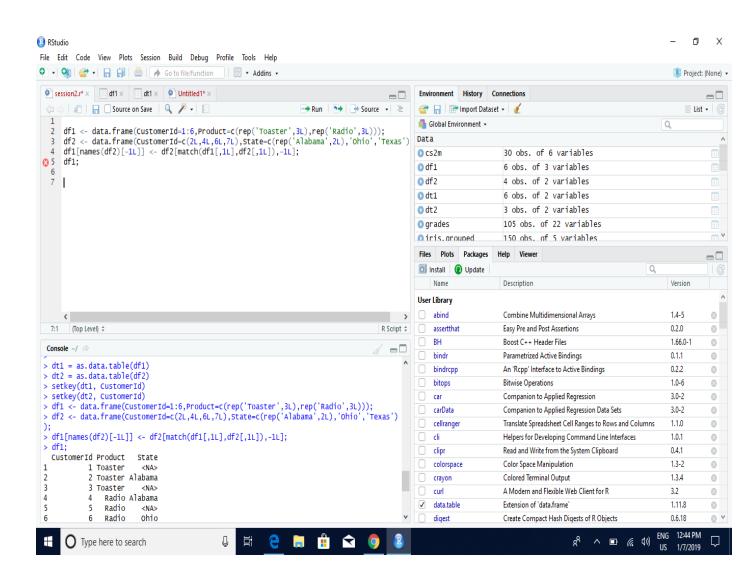
- 1 1 Toaster <NA>
- 2 2 Toaster Alabama
- 3 Toaster <NA>
- 4 4 Radio Alabama

- 5 S Radio <NA>
- 6 6 Radio Ohio

> df2;

CustomerId State

- 1 2 Alabama
- 2 4 Alabama
- 3 6 Ohio
- 4 7 Texas



merge(df1, df2)

CustomerId State Product

- 1 2 Alabama Toaster
- 2 4 Alabama Radio
- 3 6 Ohio Radio
- > merge(df1, df2, by = "CustomerId")

CustomerId Product State.x State.y

- 1 2 Toaster Alabama Alabama
- 2 4 Radio Alabama Alabama
- 3 6 Radio Ohio Ohio
- 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.

Answer:

dt1[dt2, nomatch=0L, on = "CustomerId"]

> dt1[dt2, nomatch=0L, on = "CustomerId"]

CustomerId Product State

- 1: 2 Toaster Alabama
- 2: 4 Radio Alabama
- 3: 6 Radio Ohio

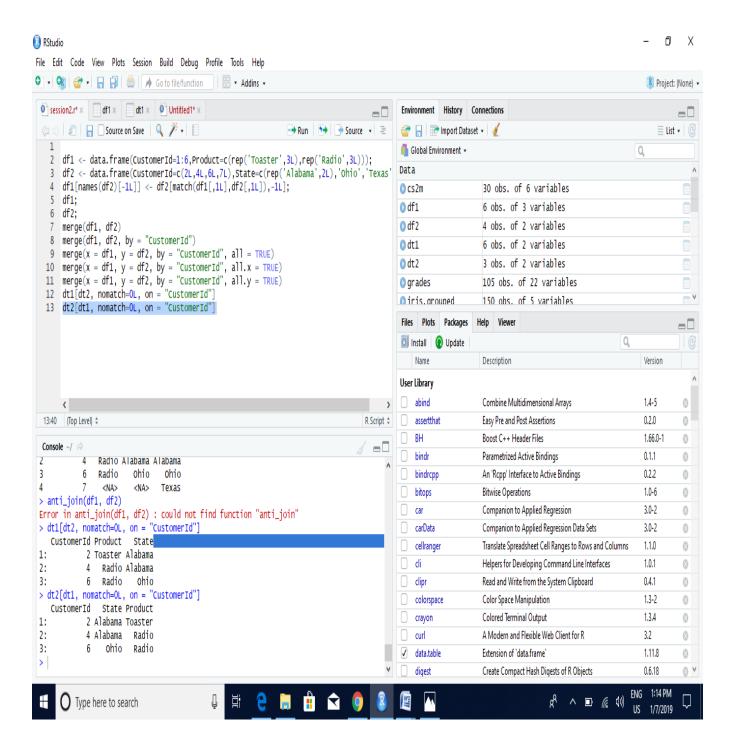
dt2[dt1, nomatch=0L, on = "CustomerId"]

> dt2[dt1, nomatch=0L, on = "CustomerId"]

CustomerId State Product

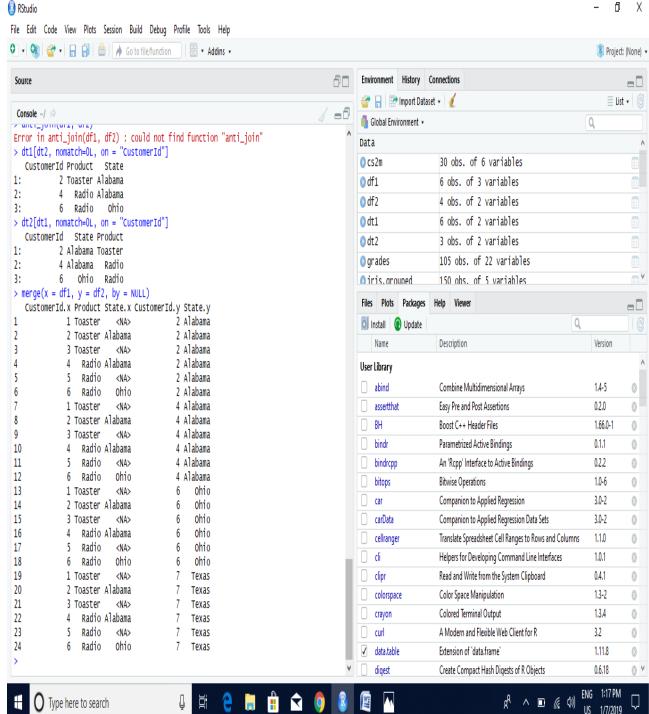
- 1: 2 Alabama Toaster
- 2: 4 Alabama Radio

3: 6 Ohio Radio



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