

SHETH L.U.J AND SIR MV COLLEGE
PRACTICAL NO:- 06

AIM :- Combining and appending datasets using merge() or bind_rows() in R.

ONLY ONE DATASET USING :-

CODE:-

```
library(dplyr)
iris <- read.csv("C:/Users/IT-29/Downloads/iris.csv")

head(iris)
sepal_data <- iris %>%
  select(sepal_length, sepal_width, species)

petal_data <- iris %>%
  select(petal_length, petal_width, species)

merged_iris <- merge(sepal_data, petal_data, by = "species")

cat("\n--- MERGED DATASET (Columns Added) ---\n")
print(head(merged_iris, 10))

iris_part1 <- iris[1:75, ] # First 75 rows
iris_part2 <- iris[76:150, ] # Last 75 rows

iris_appended <- bind_rows(iris_part1, iris_part2)

cat("\n--- APPENDED DATASET (Rows Added) ---\n")
print(head(iris_appended, 10))

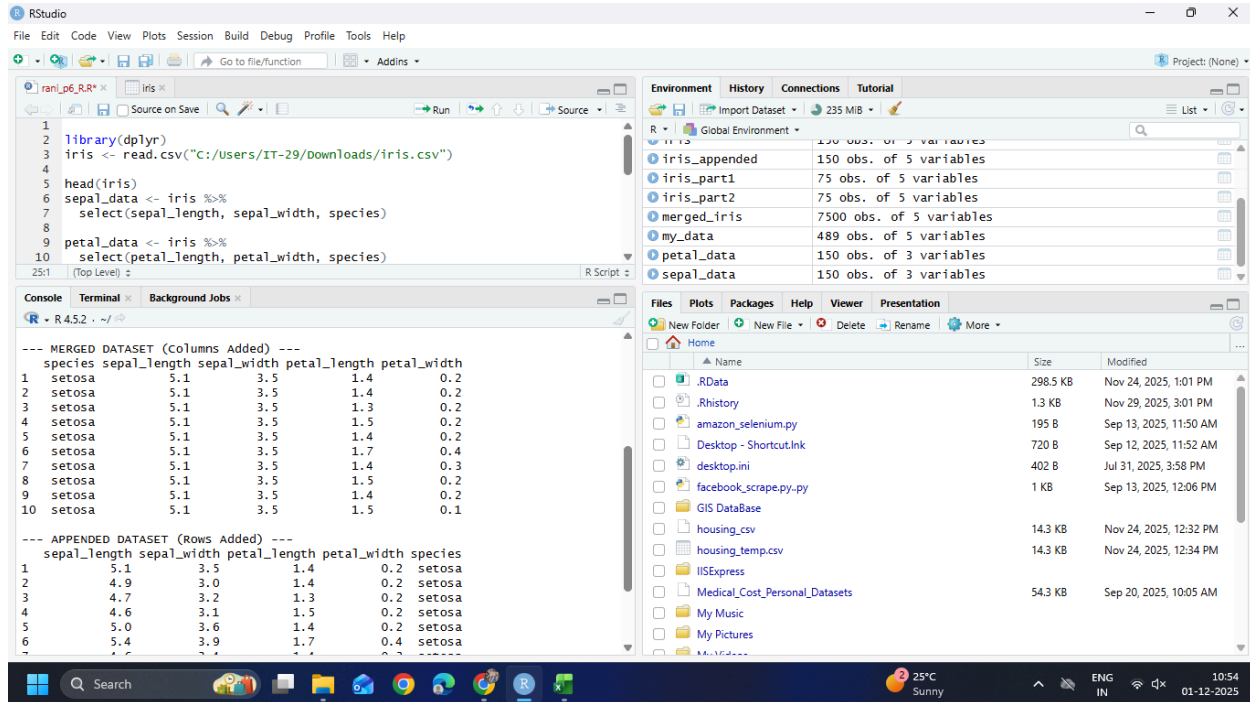
cat("\nPRACTICAL 6 COMPLETED SUCCESSFULLY.\n")
```

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OUTPUT:-



TWO DATASET USING :-

CODE:-

```
library(dplyr)

iris <- read.csv("C:/Users/IT-29/Downloads/iris.csv")
housing <- read.csv("C:/Users/IT-29/Downloads/housing (2).csv")
# str(iris)
# str(housing)
iris$ID <- 1:nrow(iris)
housing$ID <- 1:nrow(housing)

merged_data <- merge(iris, housing, by = "ID")

iris_part1 <- iris[1:75, ]
iris_part2 <- iris[76:nrow(iris), ]

appended_iris <- bind_rows(iris_part1, iris_part2)
```

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```
cat("---- Merged Dataset (by ID) ----\n")
print(head(merged_data))
```

```
cat("\n---- Appended Iris Dataset ----\n")
print(head(appended_iris))
cat("Number of rows in appended iris:", nrow(appended_iris), "\n")
```

```
cat("\n---- Filtering Housing Dataset (Price > 1,000,000) ----\n")
expensive_houses <- housing %>% filter(Price > 1000000)
print(head(expensive_houses))
```

```
cat("\nPRACTICAL 6 (Merge & Append) completed successfully.\n")
```

OUTPUT:-

```
1 library(dplyr)
2
3 iris <- read.csv("C:/Users/IT-29/Downloads/iris.csv")
4 housing <- read.csv("C:/Users/IT-29/Downloads/housing (2).csv")
5
6
7 # str(iris)
8 # str(housing)
9
10 iris$ID <- 1:nrow(iris)
11 housing$ID <- 1:nrow(housing)
12
13 merged_data <- merge(iris, housing, by = "ID")
14
15 iris_part1 <- iris[1:75, ]
16 iris_part2 <- iris[76:nrow(iris), ]
17
18 appended_iris <- bind_rows(iris_part1, iris_part2)
19
20
21 cat("---- Merged Dataset (by ID) ----\n")
22 print(head(merged_data))
23
24 cat("\n---- Appended Iris Dataset ----\n")
25 print(head(appended_iris))
```

Console Output:

```
sepal_length sepal_width petal_length petal_width species ID
1 5.1 3.5 1.4 0.2 setosa 1
2 4.9 3.0 1.4 0.2 setosa 2
3 4.7 3.2 1.3 0.2 setosa 3
4 4.6 3.1 1.5 0.2 setosa 4
5 5.0 3.6 1.4 0.2 setosa 5
6 5.4 3.9 1.7 0.4 setosa 6
```

Number of rows in appended iris: 150

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RStudio

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Source

Console Terminal Background Jobs

```
R - R4.5.2 ~\> view('housing.1')>> source("~/rani_p6.R")---- Merged Dataset (by ID) ----ID sepal_length sepal_width petal_length petal_width species1 1 5.1 3.5 1.4 0.2 setosa2 2 4.9 3.0 1.4 0.2 setosa3 3 4.7 3.2 1.3 0.2 setosa4 4 4.6 3.1 1.5 0.2 setosa5 5 5.0 3.6 1.4 0.2 setosa6 6 5.4 3.9 1.7 0.4 setosaAvg..Area.Income Avg..Area.House.Age Avg..Area.Number.of.Rooms1 79545.46 5.682861 7.0091882 79248.64 6.002900 6.7308213 61287.07 5.865890 8.5127274 63345.24 7.188236 5.5867295 59982.20 5.040555 7.8393886 80175.75 4.988408 6.104512Avg..Area.Number.of.Bedrooms Area.Population Price1 4.09 23086.80 1059033.62 3.09 40173.07 1505890.93 5.13 36882.16 1058988.04 3.26 34310.24 1260616.85 4.23 26354.11 630943.56 4.04 26748.43 1068138.1Address1 208 Michael Ferry Apt. 674\NLaurabury, NE 37010-51012 188 Johnson Views Suite 079\NLake Kathleen, CA 489583 9127 Elizabeth Stravenue\ndanielstown, WI 06482-34894 USS Barnett\NFPO AP 448205 USNS Raymond\NFPO AE 093866 06039 Jennifer Islands Apt. 443\Ntracyport, KS 16077---- Appended Iris Dataset ----sepal_length sepal_width petal_length petal_width species ID
```

Environment History Connections Tutorial

R - Global Environment 235 MiB

- housing 5000 obs. of 8 variables
- housing.1 5000 obs. of 7 variables
- iris 150 obs. of 6 variables
- iris_appended 150 obs. of 5 variables
- iris_part1 75 obs. of 6 variables
- iris_part2 75 obs. of 6 variables
- merged_data 150 obs. of 13 variables

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Console Terminal Background Jobs

```
R - R4.5.2 ~\> filter(housing, Price > 1,000,000)---- Filtering Housing Dataset (Price > 1,000,000) ----Avg..Area.Income Avg..Area.House.Age Avg..Area.Number.of.Rooms1 79545.46 5.682861 7.0091882 79248.64 6.002900 6.7308213 61287.07 5.865890 8.5127274 63345.24 7.188236 5.5867295 59982.20 5.040555 7.8393886 80175.75 4.988408 6.1045126 64698.46 6.025336 8.147760Avg..Area.Number.of.Bedrooms Area.Population Price1 4.09 23086.80 10590342 3.09 40173.07 15058913 5.13 36882.16 10589884 3.26 34310.24 12606175 4.04 26748.43 10681386 3.41 60828.25 1502056Address ID1 208 Michael Ferry Apt. 674\NLaurabury, NE 37010-5101 12 188 Johnson Views Suite 079\NLake Kathleen, CA 48958 23 9127 Elizabeth Stravenue\ndanielstown, WI 06482-3489 34 USS Barnett\NFPO AP 44820 45 06039 Jennifer Islands Apt. 443\Ntracyport, KS 16077 66 4759 daniel shoals Suite 442\Nnguyenburgh, CO 20247 7> PRACTICAL 6 (Merge & Append) completed successfully.>
```

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