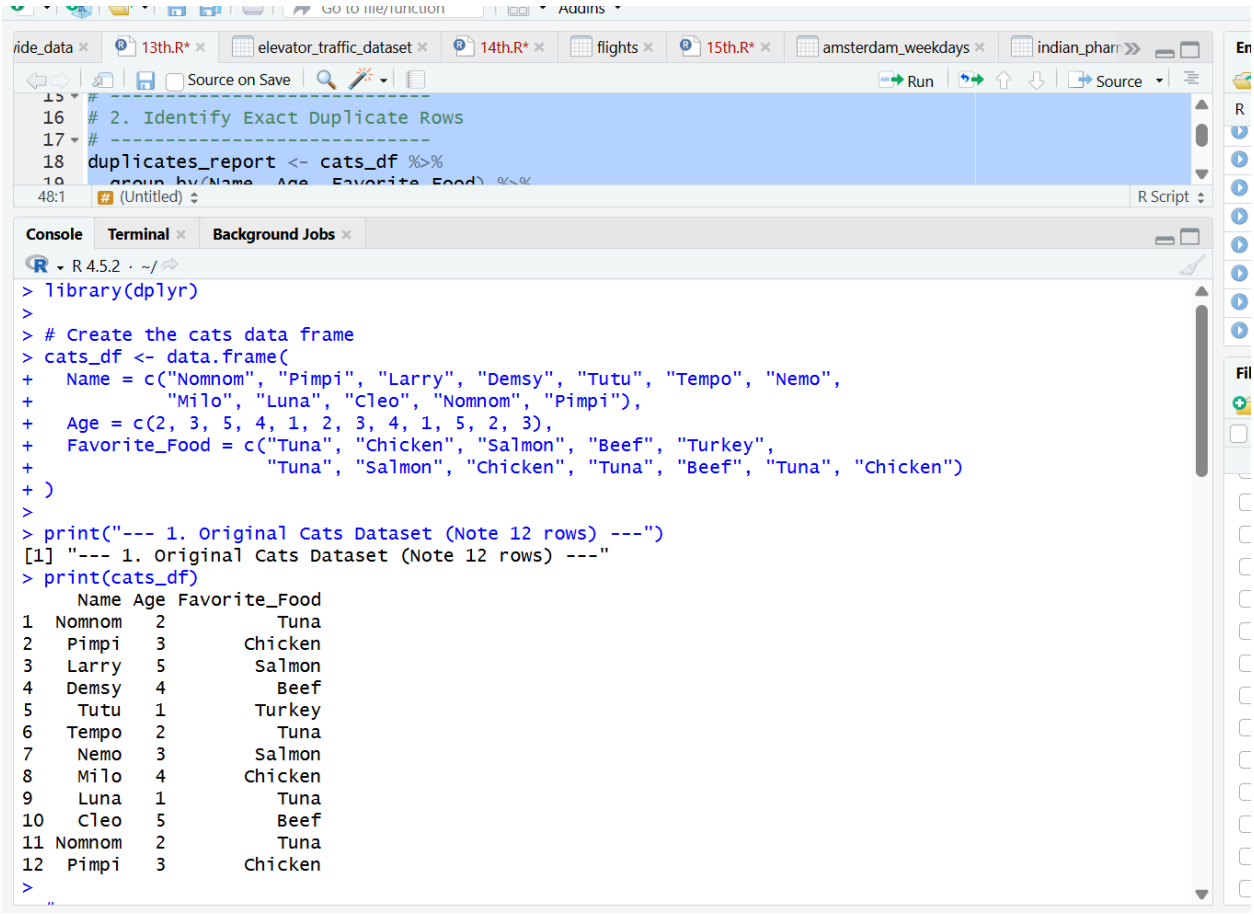
Sheth l.u.j. And sir m.v. college of arts science and commerce

Practical no.13th

Aim: Identifying and handling duplicates using PROC SORT NODUPKEY (SAS), Identify Duplicate Cases (SPSS), and distinct() (R).



```
# ------------------------------
# 2. Identify Exact Duplicate Rows
# ------------------------------
duplicates_report <- cats_df %>%
```

```
> library(dplyr)
>
> # Create the cats data frame
> cats_df <- data.frame(
+   Name = c("Nomnom", "Pimpi", "Larry", "Demsy", "Tutu", "Tempo", "Nemo",
+            "Milo", "Luna", "Cleo", "Nomnom", "Pimpi"),
+   Age = c(2, 3, 5, 4, 1, 2, 3, 4, 1, 5, 2, 3),
+   Favorite_Food = c("Tuna", "Chicken", "Salmon", "Beef", "Turkey",
+                     "Tuna", "Salmon", "Chicken", "Tuna", "Beef", "Tuna", "Chicken")
+ )
>
> print("--- 1. Original Cats Dataset (Note 12 rows) ---")
[1] "--- 1. Original Cats Dataset (Note 12 rows) ---"
> print(cats_df)
     Name Age Favorite_Food
1  Nomnom   2          Tuna
2   Pimpi   3       Chicken
3   Larry   5        Salmon
4   Demsy   4          Beef
5    Tutu   1        Turkey
6   Tempo   2          Tuna
7    Nemo   3        Salmon
8    Milo   4       Chicken
9    Luna   1          Tuna
10   Cleo   5          Beef
11 Nomnom   2          Tuna
12  Pimpi   3       Chicken
>
```

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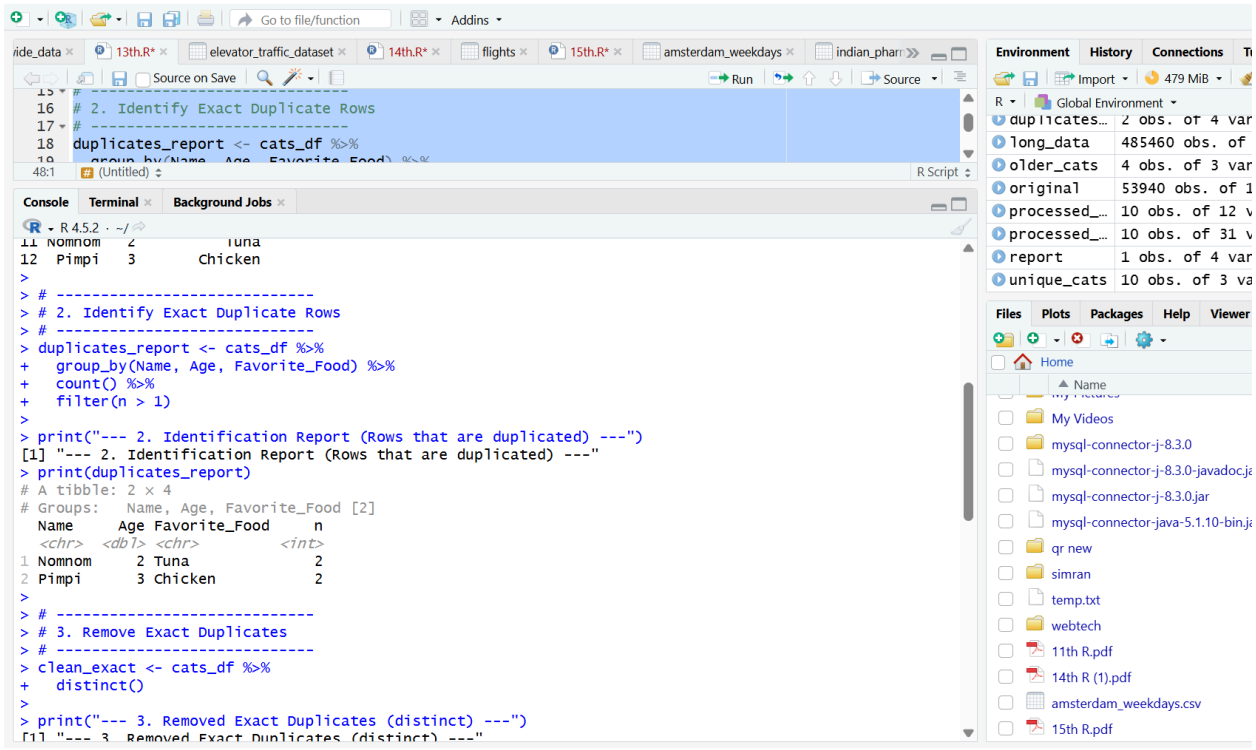
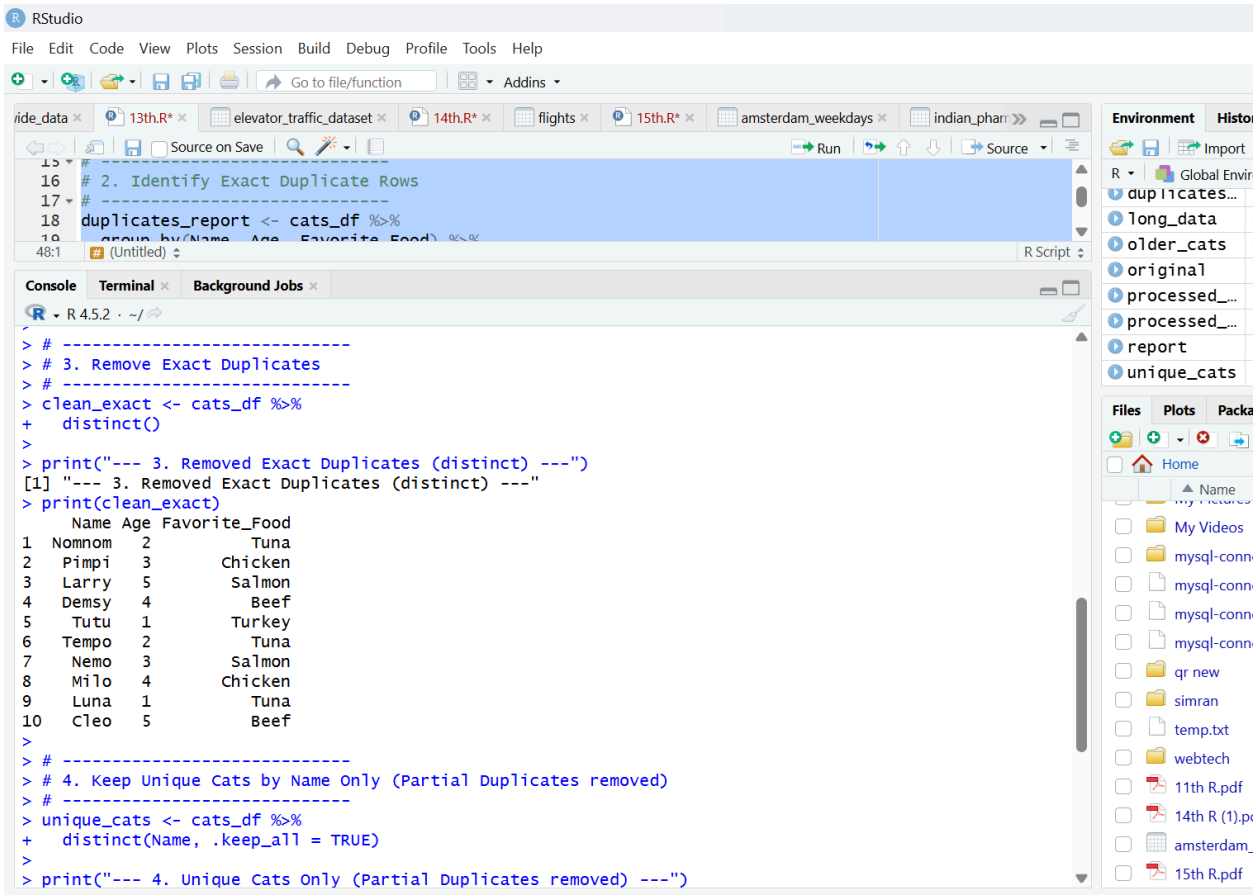


```
# ------------------------------
# 2. Identify Exact Duplicate Rows
# ------------------------------
duplicates_report <- cats_df %>%
  group_by(Name, Age, Favorite_Food) %>%
  count() %>%
  filter(n > 1)

print("--- 2. Identification Report (Rows that are duplicated) ---")
[1] "--- 2. Identification Report (Rows that are duplicated) ---"
print(duplicates_report)
# A tibble: 2 x 4
# Groups:   Name, Age, Favorite_Food [2]
  Name     Age Favorite_Food     n
  <chr>  <db1> <chr>         <int>
1 Nomnom     2 Tuna              2
2 Pimpi      3 Chicken           2

# ------------------------------
# 3. Remove Exact Duplicates
# ------------------------------
clean_exact <- cats_df %>%
  distinct()

print("--- 3. Removed Exact Duplicates (distinct) ---")
```



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# ------------------------------
# 2. Identify Exact Duplicate Rows
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duplicates_report <- cats_df %>%
# ------------------------------
# 3. Remove Exact Duplicates
# ------------------------------
clean_exact <- cats_df %>%
  distinct()

print("--- 3. Removed Exact Duplicates (distinct) ---")
[1] "--- 3. Removed Exact Duplicates (distinct) ---"
print(clean_exact)
     Name Age Favorite_Food
1  Nomnom   2         Tuna
2   Pimpi   3      Chicken
3   Larry   5       Salmon
4   Demsy   4         Beef
5    Tutu   1       Turkey
6   Tempo   2         Tuna
7    Nemo   3       Salmon
8    Milo   4      Chicken
9    Luna   1         Tuna
10   Cleo   5         Beef

# ------------------------------
# 4. Keep Unique Cats by Name Only (Partial Duplicates removed)
# ------------------------------
unique_cats <- cats_df %>%
  distinct(Name, .keep_all = TRUE)

print("--- 4. Unique Cats Only (Partial Duplicates removed) ---")
```

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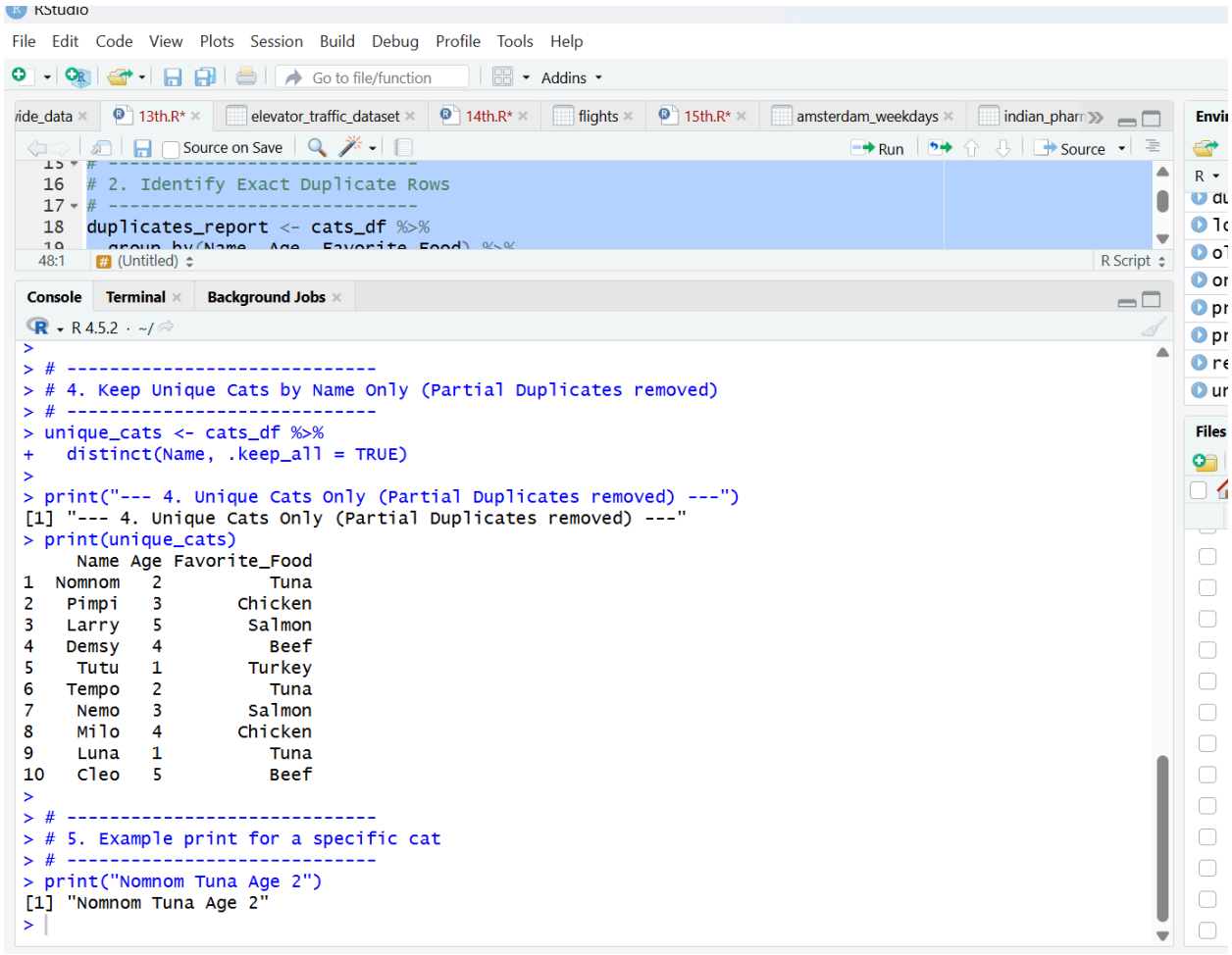

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