

PRACTICAL NO 13

AIM: Identifying and handling duplicates using distinct() (R).

```

R - R452 - ~/
> library(dplyr)
> enroll_df <- data.frame(
+   EnrollID = c(201, 202, 202, 203, 204, 201, 205),
+   Student = c("Ayaan", "Neha", "Neha", "Aqub", "Simran", "Ayaan", "Simran"),
+   Course = c("Python", "Java", "Java", "ML", "Python", "Python", "C++")
+ )
>
> print("---- Original Dataset (with duplicates) ----")
[1] "---- Original Dataset (with duplicates) ----"
> print(enroll_df)
  EnrollID Student Course
1       201   Ayaan Python
2       202    Neha  Java
3       202    Neha  Java
4       203  Aqub  ML
5       204  Simran Python
6       201   Ayaan Python
7       205  Simran  C++
>
> duplicates_report <- enroll_df %>%
+   group_by(EnrollID, Student, Course) %>%
+   count() %>%
+   filter(n > 1)
>
> print("---- Duplicate Rows Identified ----")
[1] "---- Duplicate Rows Identified ----"
> print(duplicates_report)
# A tibble: 2 x 4
# Groups:   EnrollID, Student, Course [2]
  EnrollID Student Course      n
  <dbl> <chr> <chr> <int>
1       201   Ayaan Python      2
2       202    Neha  Java      2
>
> clean_exact <- enroll_df %>%
+   distinct()
>
> print("---- After Removing Exact Duplicates ----")
[1] "---- After Removing Exact Duplicates ----"
> print(clean_exact)
  EnrollID Student Course
1       201   Ayaan Python
2       202    Neha  Java
3       203  Aqub  ML
4       204  Simran Python
5       205  Simran  C++

```

```

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# Groups:   EnrollID, Student, Course [2]
  EnrollID Student Course      n
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1       201   Ayaan Python      2
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>
> clean_exact <- enroll_df %>%
+   distinct()
>
> print("---- After Removing Exact Duplicates ----")
[1] "---- After Removing Exact Duplicates ----"
> print(clean_exact)
  EnrollID Student Course
1       201   Ayaan Python
2       202    Neha  Java
3       203  Aqub  ML
4       204  Simran Python
5       205  Simran  C++
>
> unique_students <- enroll_df %>%
+   distinct(Student, .keep_all = TRUE)
>
> print("---- Unique Students Only ----")
[1] "---- Unique Students Only ----"
> print(unique_students)
  EnrollID Student Course
1       201   Ayaan Python
2       202    Neha  Java
3       203  Aqub  ML
4       204  Simran Python

```