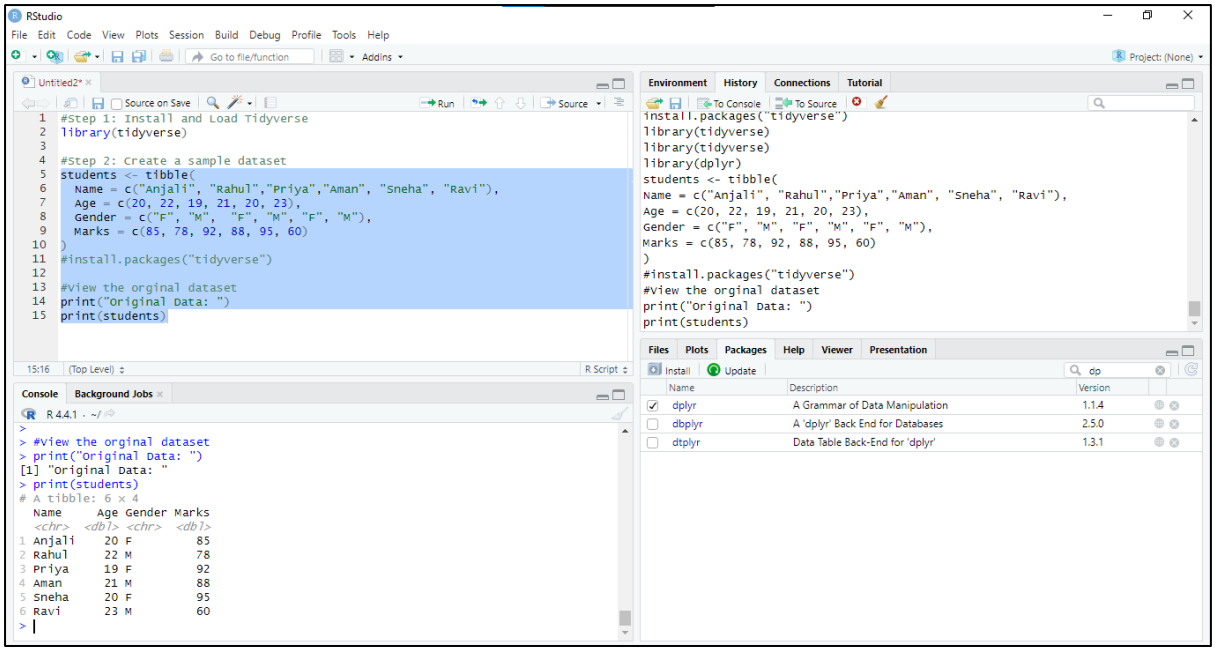
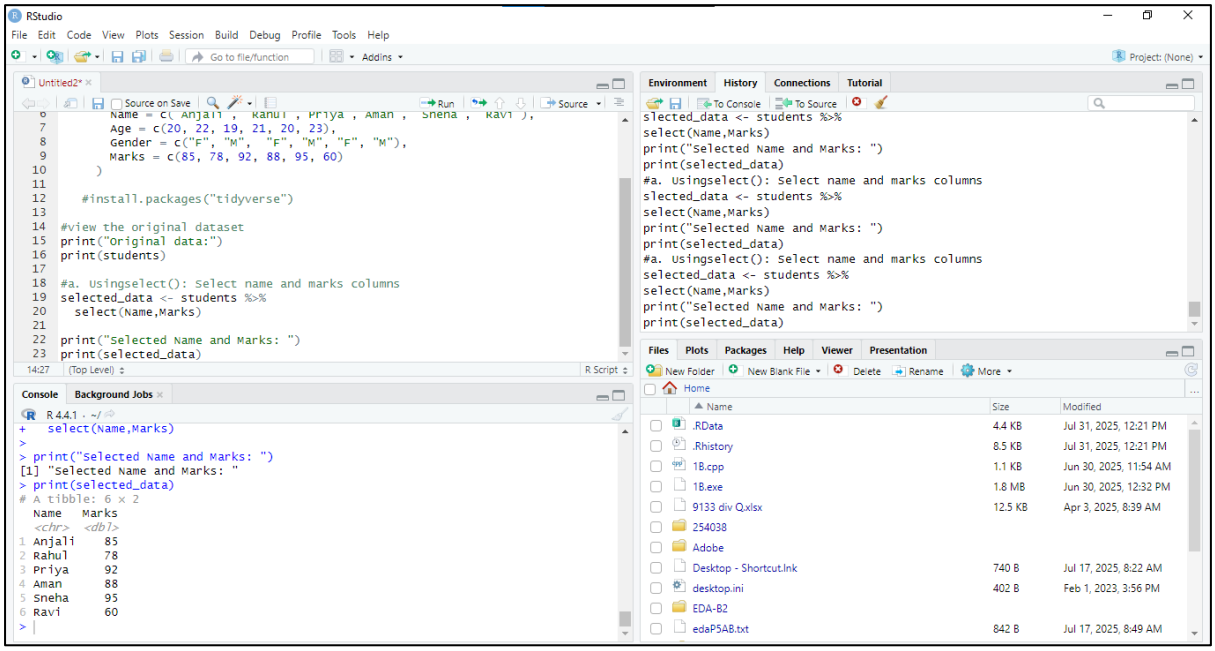
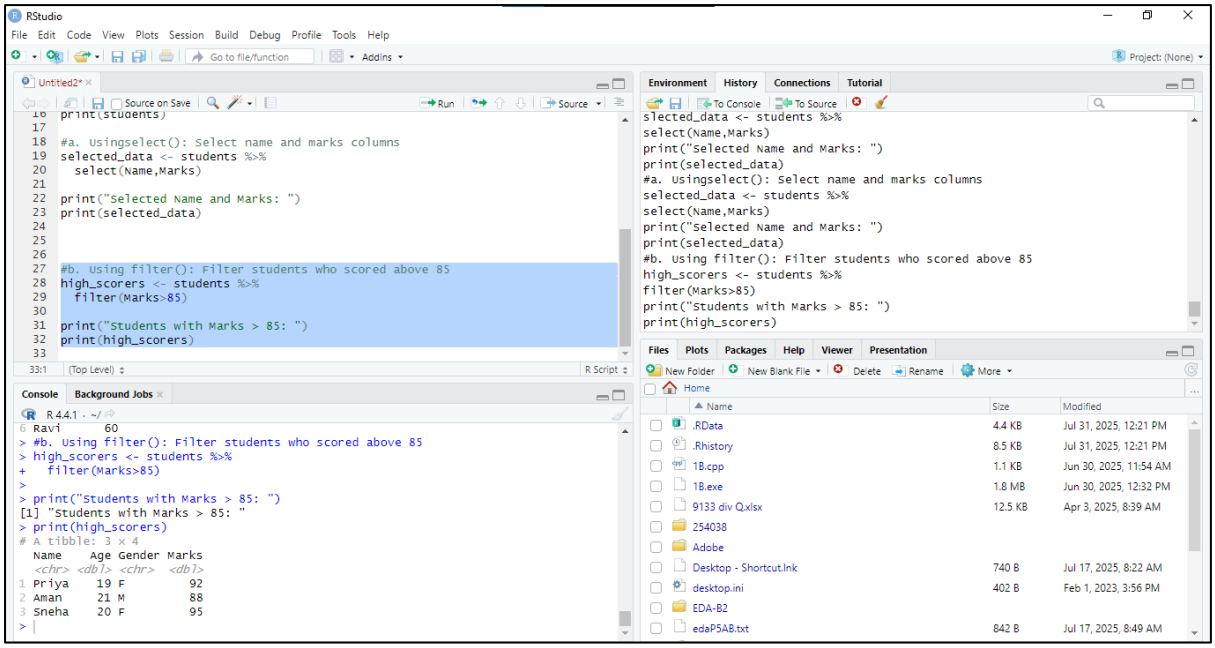
ITDS 6th Practical




RStudio
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print(students)
#a. Usingselect(): Select name and marks columns
selected_data <- students %>%
select(Name,Marks)
print("Selected Name and Marks: ")
print(selected_data)
#b. Using filter(): Filter students who scored above 85
high_scorers <- students %>%
filter(Marks>85)
print("Students with Marks > 85: ")
print(high_scorers)
Console Background Jobs
R 4.4.1 · ~/
6 Ravi 60
> #b. Using filter(): Filter students who scored above 85
> high_scorers <- students %>%
+ filter(Marks>85)
> print("Students with Marks > 85: ")
[1] "Students with Marks > 85: "
> print(high_scorers)
# A tibble: 3 x 4
Name Age Gender Marks
<chr> <dbl> <chr> <dbl>
1 Priya 19 F 92
2 Aman 21 M 88
3 Sneha 20 F 95
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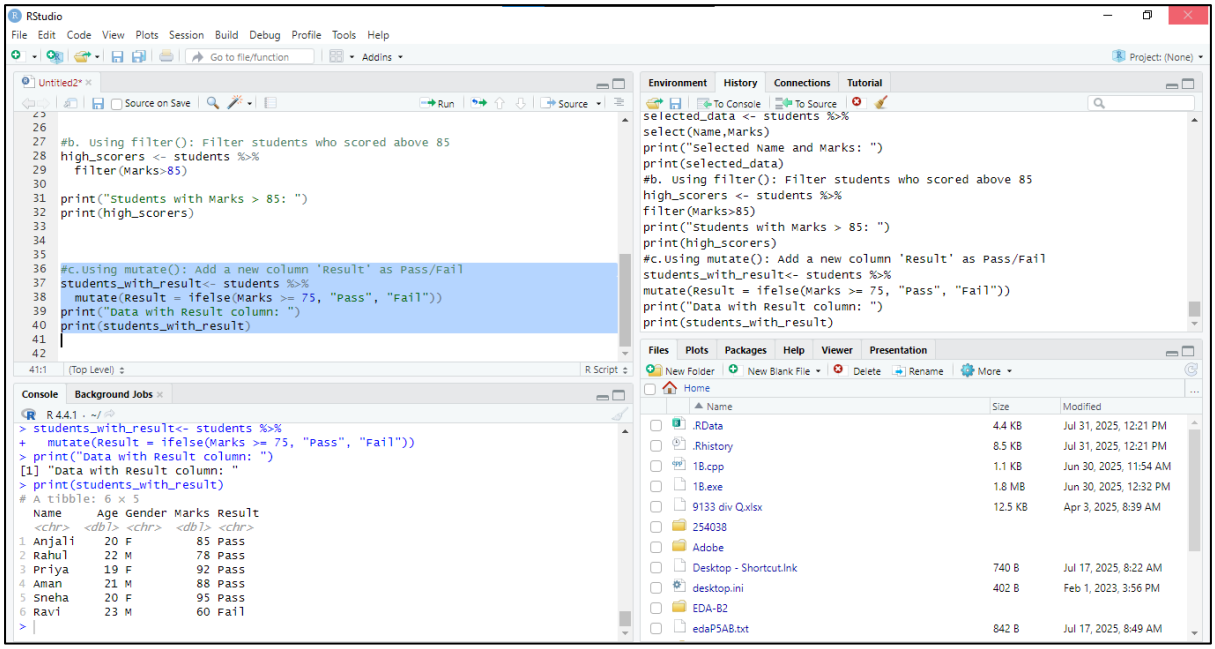
RStudio
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#b. Using filter(): Filter students who scored above 85
high_scorers <- students %>%
filter(Marks>85)
print("Students with Marks > 85: ")
print(high_scorers)
#c.Using mutate(): Add a new column 'Result' as Pass/Fail
students_with_result<- students %>%
mutate(Result = ifelse(Marks >= 75, "Pass", "Fail"))
print("Data with Result column: ")
print(students_with_result)
Console Background Jobs
R 4.4.1 · ~/
> students_with_result<- students %>%
+ mutate(Result = ifelse(Marks >= 75, "Pass", "Fail"))
> print("Data with Result column: ")
[1] "Data with Result column: "
> print(students_with_result)
# A tibble: 6 x 5
Name Age Gender Marks Result
<chr> <dbl> <chr> <dbl> <chr>
1 Anjali 20 F 85 Pass
2 Rahul 22 M 78 Pass
3 Priya 19 F 92 Pass
4 Aman 21 M 88 Pass
5 Sneha 20 F 95 Pass
6 Ravi 23 M 60 Fail
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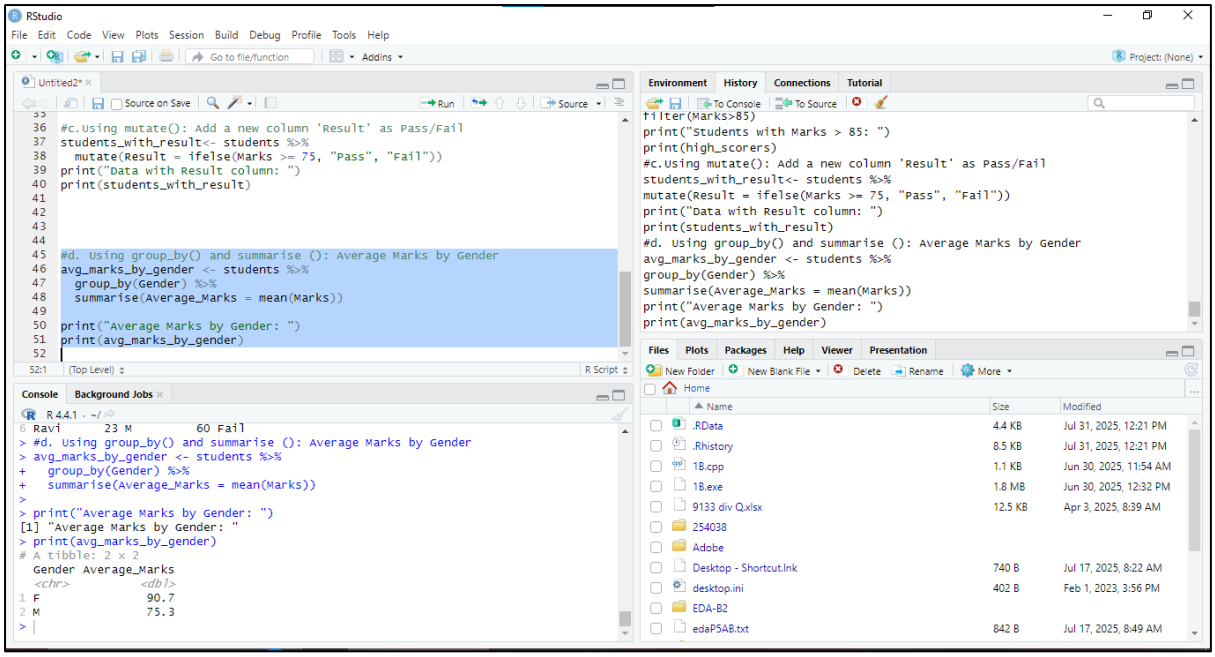
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Untitled2*
#c.Using mutate(): Add a new column 'Result' as Pass/Fail
students_with_result<- students %>%
mutate(Result = ifelse(Marks >= 75, "Pass", "Fail"))
print("Data with Result column: ")
print(students_with_result)
#d. Using group_by() and summarise (): Average Marks by Gender
avg_marks_by_gender <- students %>%
group_by(Gender) %>%
summarise(Average_Marks = mean(Marks))
print("Average Marks by Gender: ")
print(avg_marks_by_gender)
Console
Background Jobs
6 Ravi 23 M 60 Fail
> #d. Using group_by() and summarise (): Average Marks by Gender
> avg_marks_by_gender <- students %>%
+ group_by(Gender) %>%
+ summarise(Average_Marks = mean(Marks))
> print("Average Marks by Gender: ")
[1] "Average Marks by Gender: "
> print(avg_marks_by_gender)
# A tibble: 2 x 2
Gender Average_Marks
<chr> <dbl>
1 F 90.7
2 M 75.3
Environment
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filter(Marks>85)
print("Students with Marks > 85: ")
print(high_scorers)
#c.Using mutate(): Add a new column 'Result' as Pass/Fail
students_with_result<- students %>%
mutate(Result = ifelse(Marks >= 75, "Pass", "Fail"))
print("Data with Result column: ")
print(students_with_result)
#d. Using group_by() and summarise (): Average Marks by Gender
avg_marks_by_gender <- students %>%
group_by(Gender) %>%
summarise(Average_Marks = mean(Marks))
print("Average Marks by Gender: ")
print(avg_marks_by_gender)
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