Learning R programming

If you only know part of the name, such as the first or last name, you can use grepl() in R for partial matching. Here’s how you can achieve this:

**Example Code**

# Sample dataset

data <- data.frame(

Name = c("Alice Smith", "Bob Johnson", "Charlie Brown", "David Clark"),

Age = c(25, 30, 35, 40),

Gender = c("Female", "Male", "Male", "Male")

)

# Part of the name to search

partial\_name <- "Bob" # Can be "Smith", "Johnson", etc.

# Find rows where the name contains the partial string

result <- data[grepl(partial\_name, data$Name, ignore.case = TRUE), ]

# Print the result

print(result)

**Explanation**

1. **grepl(partial\_name, data$Name, ignore.case = TRUE)**:
   * grepl() searches for the partial\_name in the Name column.
   * ignore.case = TRUE makes the search case-insensitive.
2. **data[...]**:
   * Subsets the dataset to rows where the condition is TRUE.

**Example Output**

If partial\_name is "Bob", the output will be:

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Name Age Gender

2 Bob Johnson 30 Male

**Notes**

* If you have first names and last names in separate columns, adjust the logic:

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# First and last names in separate columns

data <- data.frame(

FirstName = c("Alice", "Bob", "Charlie", "David"),

LastName = c("Smith", "Johnson", "Brown", "Clark"),

Age = c(25, 30, 35, 40),

Gender = c("Female", "Male", "Male", "Male")

)

# Search by first name or last name

partial\_name <- "Smith"

result <- data[grepl(partial\_name, data$FirstName, ignore.case = TRUE) |

grepl(partial\_name, data$LastName, ignore.case = TRUE), ]

# Print the result

print(result)