

SHETH L.U.J AND SIR M.V. COLLEGE
SUBJECT NAME: DATA ANALYSIS WITH SAS/SPSS/R

Module 1 Practical 4

Aim: Applying conditional filters subset() or filter() in R.

OUTPUT:

RStudio

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Source

Console Terminal × Background Jobs ×

R - R 4.5.2 - C:\Users\PRIYANKA\Desktop\

```
> library(dplyr)
> library(readr)
>
> ipl <- read_csv("ipl.csv")
New names:
• ` ` > `...` 1
Rows: 633 Columns: 8
-- Column specification --
Delimiter: ","
chr (5): Player, Base Price, TYPE, 2021 Squad, Team
dbl (3): ...1, COST IN ₹ (CR.), Cost IN $ (000)
dbl (3): ...2, ...3, ...4, ...5, ...6, ...7, ...8

1 Use `spec()` to retrieve the full column specification for this data.
1 Specify the column types or set `show_col_types = FALSE` to quiet this message.
>
> head(ipl)
# A tibble: 6 x 8
...1 Player    `Base Price` `TYPE` `COST IN ₹ (CR.)` `Cost IN $ (000)` `2021 Squad` `Team
<dbl> <chr>      <chr>        <dbl> <chr>      <dbl> <chr>
1 0 Rashid Khan Draft Pick BOWL... 15          1950  SRH       Guja...
2 1 Hardik Pandya Draft Pick ALL... 15          1950  MI        Guja...
3 2 Lockie Fergu... 2 Cr     BOWL... 10          1300  KKR       Guja...
4 3 Rahul Tewati 40 Lakh ALL... 9           1170  RR        Guja...
5 4 Shubman Gill Draft Pick BATT... 8           1040  KKR       Guja...
6 5 Mohammad Sha... 2 Cr     BOWL... 6.25         812   PBKS      Guja...
```

> high_cost_subset <- subset(ipl, `COST IN ₹ (CR.)` > 10)
> cat("Number of players with cost > 10 Cr: ", nrow(high_cost_subset), "\n")
Number of players with cost > 10 Cr: 22
> summary(high_cost_subset)`COST IN ₹ (CR.)`
 Min. 1st Qu. Median Mean 3rd Qu. Max.
 10.75 11.62 13.12 13.32 15.00 17.00
>
> draft_allrounders <- subset(ipl, TYPE == "ALL-ROUNDER" & `Base Price` == "Draft Pick")
> cat("Number of ALL-ROUNDERS with Draft Pick: ", nrow(draft_allrounders), "\n")
Number of ALL-ROUNDERS with Draft Pick: 2
> head(draft_allrounders)
A tibble: 2 x 8
...1 Player `Base Price` `TYPE` `COST IN ₹ (CR.)` `Cost IN \$ (000)` `2021 Squad` `Team
<dbl> <chr> <chr> <dbl> <chr> <dbl> <chr>
1 1 Hardik Pandya Draft Pick ALL... 15 1950 MT Guja...

Environment History Conn

Global Environment

Data

bat_b... 327 obs. of ...
draft... 2 obs. of ...
high_... 22 obs. of ...
ipl 633 obs. of ...
low_c... 121 obs. of ...
speci... 575 obs. of ...
srh_e... 7 obs. of ...

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Users PRIYANKA Desktop

Name

.. _ .History .Rhistory
Adobe Express.Ink
Canva.Ink
desktop.ini
EONEDIT32.EXE
Guddu.jl
iplCSV
Krishna (Krishna Chaudhary) - ...
Netflix.Ink
S074 CN Practical no.1.pdf
S074 Krishna - Chrome.Ink
Spotify.Ink

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```

Console Terminal Background Jobs
R - R 4.5.2 - C:/users/PRIYANKA/Desktop/ipl.csv
...1 Player 'Base Price' TYPE 'COST IN ₹ (CR.)' 'Cost IN $ (000)' '2021 Squad' Team
<chr> <chr> <chr> <db> <chr>
1 1 Hardik Pandya Draft Pick ALL-- 15 1950 MI Guja...
2 123 Marcus Stoini Draft Pick ALL-- 9.2 1196 DC Luck...
>
> special_players <- subset(
+   ipl,
+   grepl("lakh", tolower('Base Price')) | `Cost IN $ (000)` > 300
+ ) cat("Special players (Lakh OR $ > 300K): ", nrow(special_players), "\n")
Special players (Lakh OR $ > 300K): 575
> head(special_players)
# A tibble: 6 × 8
...1 Player 'Base Price' TYPE 'COST IN ₹ (CR.)' 'Cost IN $ (000)' '2021 Squad' Team
<chr> <chr> <chr> <db> <chr>
1 0 Rashid Khan Draft Pick BOWL-- 15 1950 SRH Guja...
2 1 Hardik Pandya Draft Pick ALL-- 15 1950 MI Guja...
3 2 Lockie Fergus 2 Cr BOWL-- 10 1300 KKR Guja...
4 3 Rahul Tewatia 40 Lakh ALL-- 9 1170 RR Guja...
5 4 Shubman Gill Draft Pick BATT-- 8 1040 KKR Guja...
6 5 Mohammad Shah 2 Cr BOWL-- 6.25 812. PBKS Guja...
>
> low_cost_filter <- ipl %>
+ filter(`COST IN ₹ (CR.)` < 2)
> cat("Players with cost < 2 Cr: ", nrow(low_cost_filter), "\n")
Players with cost < 2 Cr: 121
> summary(low_cost_filter)$COST IN ₹ (CR.)
Min. 1st Qu. Median Mean 3rd Qu. Max.
0.2000 0.2000 0.4000 0.5682 0.7500 1.9000
>
> srh_expensive <- ipl %>
+ filter(`2021 Squad` == "SRH", `COST IN ₹ (CR.)` > 5)
> cat("SRH players with cost > 5 Cr: ", nrow(srh_expensive), "\n")
SRH players with cost > 5 Cr: 7
> head(srh_expensive)
# A tibble: 6 × 8
...1 Player 'Base Price' TYPE 'COST IN ₹ (CR.)' 'Cost IN $ (000)' '2021 Squad' Team
<chr> <chr> <chr> <db> <chr>
1 0 Rashid Khan Draft Pick BOWL-- 15 1950 SRH Guja...
2 53 David Warner 2 Cr BATT-- 6.25 812. SRH Delhi...

```

Environment History Conn

Data

- bat_b_ 327 obs. of 8
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- low_c_ 121 obs. of 8
- speci_ 575 obs. of 8
- srh_e_ 7 obs. of 8

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RStudio

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```

Console Terminal Background Jobs
R - R 4.5.2 - C:/users/PRIYANKA/Desktop/ipl.csv
...1 Player 'Base Price' TYPE 'COST IN ₹ (CR.)' 'Cost IN $ (000)' '2021 Squad' Team
<chr> <chr> <chr> <db> <chr>
1 0 Rashid Khan Draft Pick BOWL-- 15 1950 SRH Guja...
2 1 Hardik Pandya Draft Pick ALL-- 15 1950 MI Guja...
3 2 Lockie Fergus 2 Cr BOWL-- 10 1300 KKR Guja...
4 3 Rahul Tewatia 40 Lakh ALL-- 9 1170 RR Guja...
5 4 Shubman Gill Draft Pick BATT-- 8 1040 KKR Guja...
6 5 Mohammad Shah 2 Cr BOWL-- 6.25 812. PBKS Guja...
>
> low_cost_filter <- ipl %>
+ filter(`COST IN ₹ (CR.)` < 2)
> cat("Players with cost < 2 Cr: ", nrow(low_cost_filter), "\n")
Players with cost < 2 Cr: 121
> summary(low_cost_filter)$COST IN ₹ (CR.)
Min. 1st Qu. Median Mean 3rd Qu. Max.
0.2000 0.2000 0.4000 0.5682 0.7500 1.9000
>
> srh_expensive <- ipl %>
+ filter(`2021 Squad` == "SRH", `COST IN ₹ (CR.)` > 5)
> cat("SRH players with cost > 5 Cr: ", nrow(srh_expensive), "\n")
SRH players with cost > 5 Cr: 7
> head(srh_expensive)
# A tibble: 6 × 8
...1 Player 'Base Price' TYPE 'COST IN ₹ (CR.)' 'Cost IN $ (000)' '2021 Squad' Team
<chr> <chr> <chr> <db> <chr>
1 0 Rashid Khan Draft Pick BOWL-- 15 1950 SRH Guja...
2 53 David Warner 2 Cr BATT-- 6.25 812. SRH Delhi...
3 54 Syed Khaleel 50 Lakh BOWL-- 5.25 682. SRH Delhi...
4 101 Jonny Bairsto 1.5 Cr WICK-- 6.75 878. SRH Punj...
5 124 Jason Holder 1.5 Cr ALL-- 8.75 1138. SRH Luck...
6 214 Kane Williamson Retained BATT-- 14 1820 SRH Sunr...
>
> bat_bowl_filter <- ipl %>
+ filter(TYPE %in% c("BATTER", "BOWLER"))
> cat("BATTER or BOWLER count: ", nrow(bat_bowl_filter), "\n")
BATTER or BOWLER count: 327
> table(bat_bowl_filter$TYPE)

BATTER BOWLER
112 215

```

Environment History Conn

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- speci_ 575 obs. of 8
- srh_e_ 7 obs. of 8

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