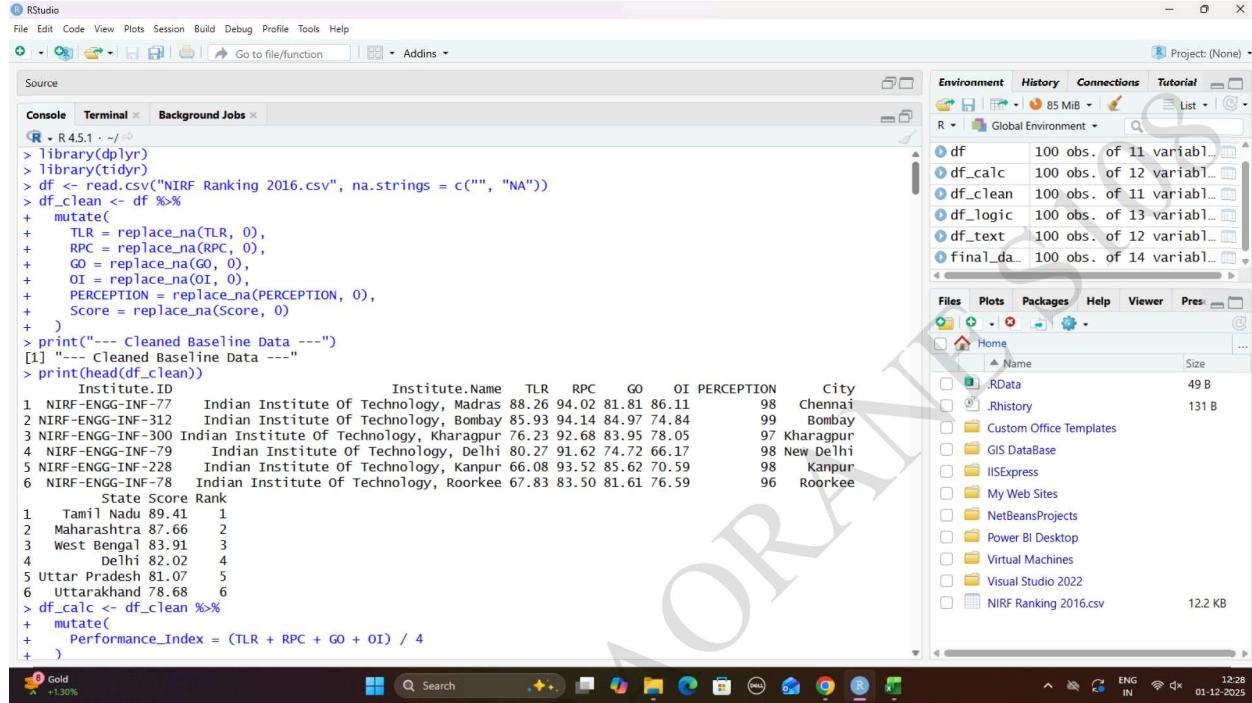


SHETH L.U.J & SIR M.V COLLEGE OF SCIENCE

SUBJECT : Data Analysis with SAS / SPSS / R

AIM : Creating new variables using transformations and calculations in R. import dataset.

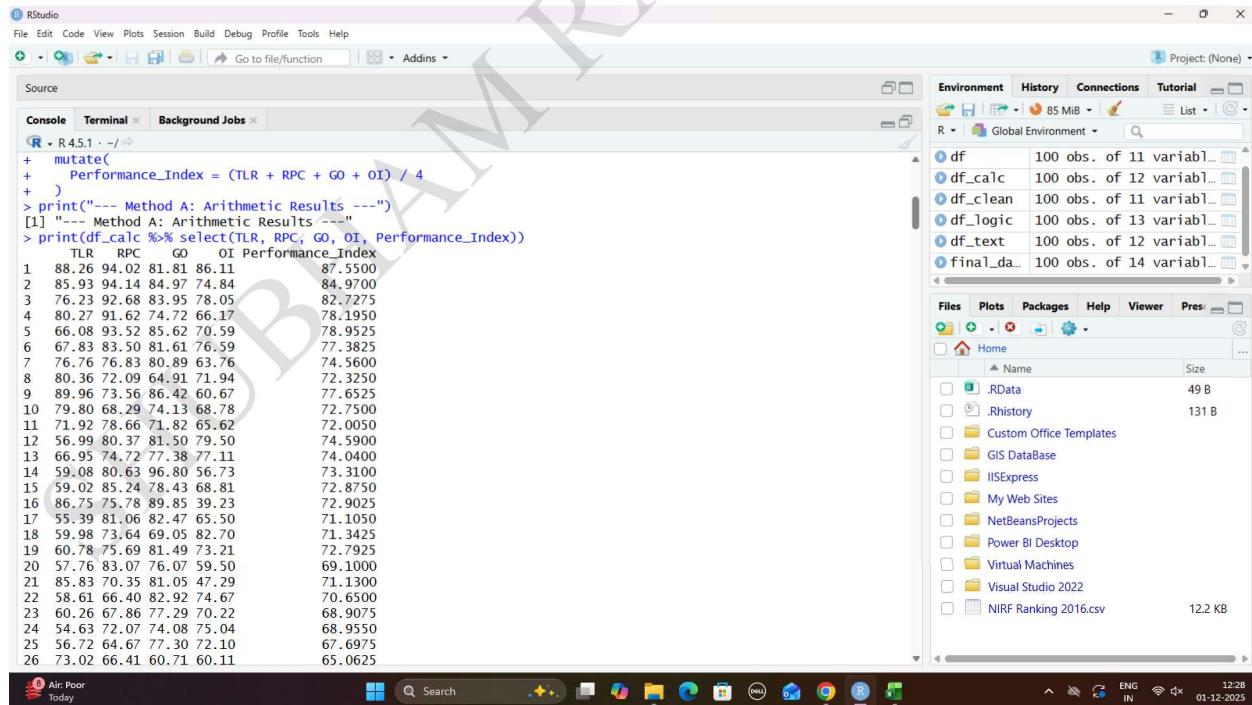
OUTPUT



```

library(dplyr)
library(tidyverse)
df <- read.csv("NIRF Ranking 2016.csv", na.strings = c("", "NA"))
df_clean <- df %>
  mutate(
    TLR = replace_na(TLR, 0),
    RPC = replace_na(RPC, 0),
    GO = replace_na(GO, 0),
    OI = replace_na(OI, 0),
    PERCEPTION = replace_na(PERCEPTION, 0),
    Score = replace_na(Score, 0)
  )
  print("---- Cleaned Baseline Data ----")
  [1] "---- Cleaned Baseline Data ----"
  print(head(df_clean))
    Institute.ID Institute.Name TLR RPC GO OI PERCEPTION City
1 NIRF-ENGG-INF-77 Indian Institute Of Technology, Madras 88.26 94.02 81.81 86.11 98 Chennai
2 NIRF-ENGG-INF-312 Indian Institute Of Technology, Bombay 85.93 94.14 84.97 74.84 99 Bombay
3 NIRF-ENGG-INF-300 Indian Institute Of Technology, Kharagpur 76.23 92.68 83.95 78.05 97 Kharagpur
4 NIRF-ENGG-INF-79 Indian Institute Of Technology, Delhi 80.27 91.62 74.72 66.17 98 New Delhi
5 NIRF-ENGG-INF-228 Indian Institute Of Technology, Kanpur 66.08 93.52 85.62 70.59 98 Kanpur
6 NIRF-ENGG-INF-78 Indian Institute Of Technology, Roorkee 67.83 83.50 81.61 76.59 96 Roorkee
  State Score Rank
1 Tamil Nadu 89.41 1
2 Maharashtra 87.66 2
3 West Bengal 83.91 3
4 Delhi 82.02 4
5 Uttar Pradesh 81.07 5
6 Uttarakhand 78.68 6
  df_calc <- df_clean %>
  mutate(
    Performance_Index = (TLR + RPC + GO + OI) / 4
  )

```



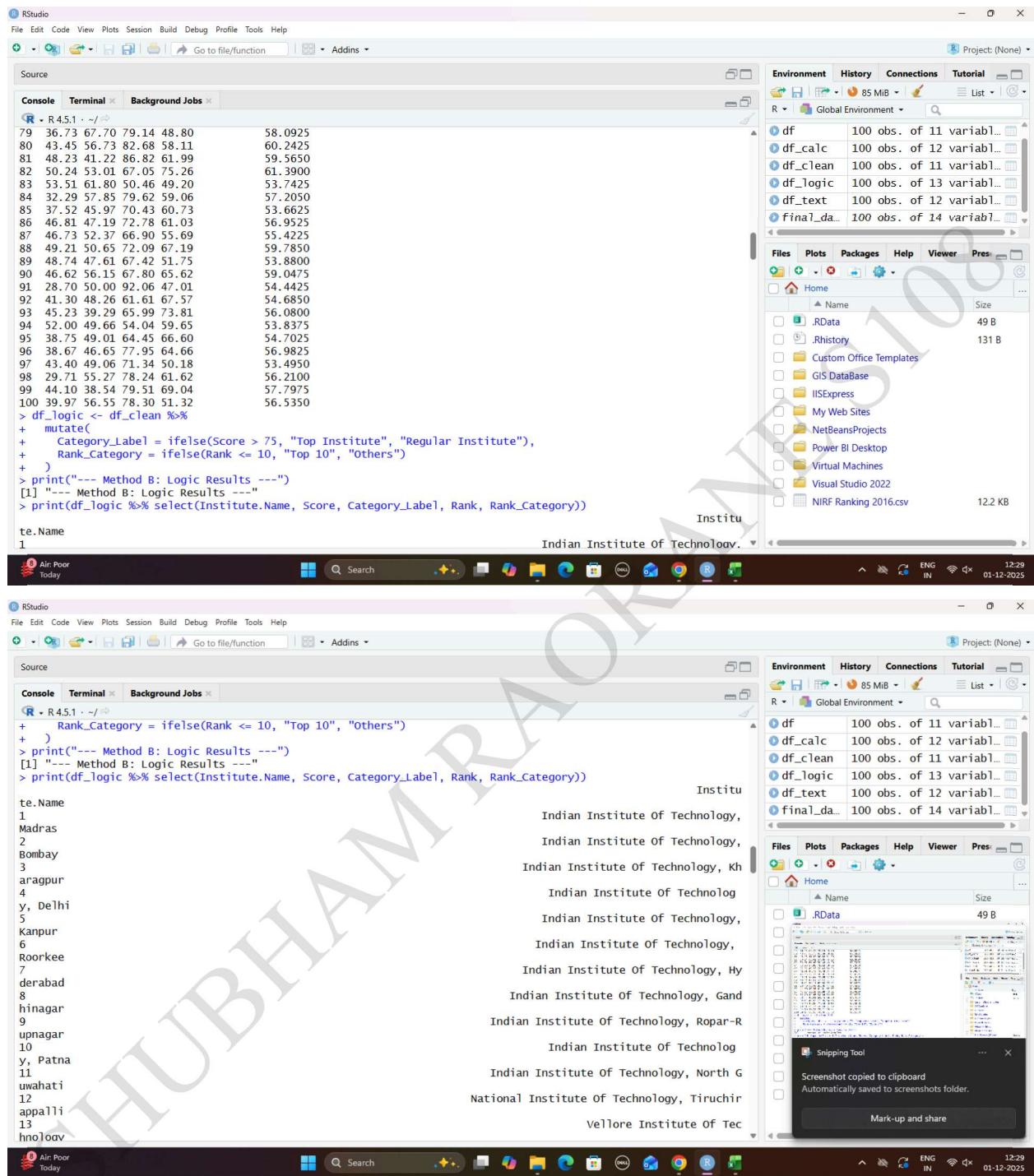
```

  + mutate(
    +   Performance_Index = (TLR + RPC + GO + OI) / 4
    + )
  print("---- Method A: Arithmetic Results ----")
  [1] "---- Method A: Arithmetic Results ----"
  print(df_calc %>% select(TLR, RPC, GO, OI, Performance_Index))
    TLR RPC GO OI Performance_Index
1 88.26 94.02 81.81 86.11 87.5500
2 85.93 94.14 84.97 74.84 84.9700
3 76.23 92.68 83.95 78.05 82.7275
4 80.27 91.62 74.72 66.17 78.1950
5 66.08 93.52 85.62 70.59 78.9525
6 67.83 83.50 81.61 76.59 77.3825
7 76.76 76.83 80.89 63.76 74.5600
8 80.36 72.09 64.91 71.94 72.3250
9 89.96 73.56 86.42 60.67 77.6525
10 79.80 68.29 74.13 68.78 72.7500
11 71.92 78.66 71.82 65.62 72.0050
12 56.99 80.37 81.50 79.50 74.5900
13 66.95 74.72 77.38 77.11 74.0400
14 59.08 80.63 96.80 56.73 73.3100
15 59.02 85.24 78.43 68.81 72.8750
16 86.75 75.78 89.85 39.23 72.9025
17 55.39 81.06 82.47 65.50 71.1050
18 59.98 73.64 69.05 82.70 71.3425
19 60.78 75.69 81.49 73.21 72.7925
20 57.76 83.07 76.07 59.50 69.1000
21 85.83 70.35 81.05 47.29 71.1300
22 58.61 66.40 82.92 74.67 70.6500
23 60.26 67.86 77.29 70.22 68.9075
24 54.63 72.07 74.08 75.04 68.9550
25 56.72 64.67 77.30 72.10 67.6975
26 73.02 66.41 60.71 60.11 65.0625

```

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SUBJECT : Data Analysis with SAS / SPSS / R



RStudio Session 1 (Top):

```

RStudio
File Edit Code View Plots Session Build Debug Profile Tools Help
Go to file/function Addins
Source
Console Terminal Background Jobs
R 4.5.1 - ~/d
79 36.73 67.79 79.14 48.80 58.0925
80 43.45 56.73 82.68 58.11 60.2425
81 48.23 41.22 86.82 61.99 59.5650
82 50.24 53.01 67.05 75.26 61.3900
83 53.51 61.80 50.46 49.20 53.7425
84 32.29 57.85 79.62 59.06 57.2050
85 37.52 45.97 70.43 60.73 53.6625
86 46.81 47.19 72.78 61.03 56.9525
87 46.73 52.37 66.90 55.69 55.4225
88 49.21 50.65 72.09 67.19 59.7850
89 48.74 47.61 67.42 51.75 53.8800
90 46.62 56.15 67.80 65.62 59.0475
91 28.70 50.00 92.06 47.01 54.4425
92 41.30 48.26 61.61 67.57 54.6850
93 45.23 39.29 65.99 73.81 56.0800
94 52.00 49.66 54.04 59.65 53.8375
95 38.75 49.01 64.45 66.60 54.7025
96 38.67 46.65 77.95 64.66 56.9825
97 43.40 49.06 71.34 50.18 53.4950
98 29.71 55.27 78.24 61.62 56.2100
99 44.10 38.54 79.51 69.04 57.7975
100 39.97 56.55 78.30 51.32 56.5350
> df_logic <- df_clean %>%
+   mutate(
+     Category_Label = ifelse(Score > 75, "Top Institute", "Regular Institute"),
+     Rank_Category = ifelse(Rank <= 10, "Top 10", "Others")
+   )
> print(" --- Method B: Logic Results ---")
[1] " --- Method B: Logic Results ---"
> print(df_logic %>% select(Institute.Name, Score, Category_Label, Rank, Rank_Category))

```

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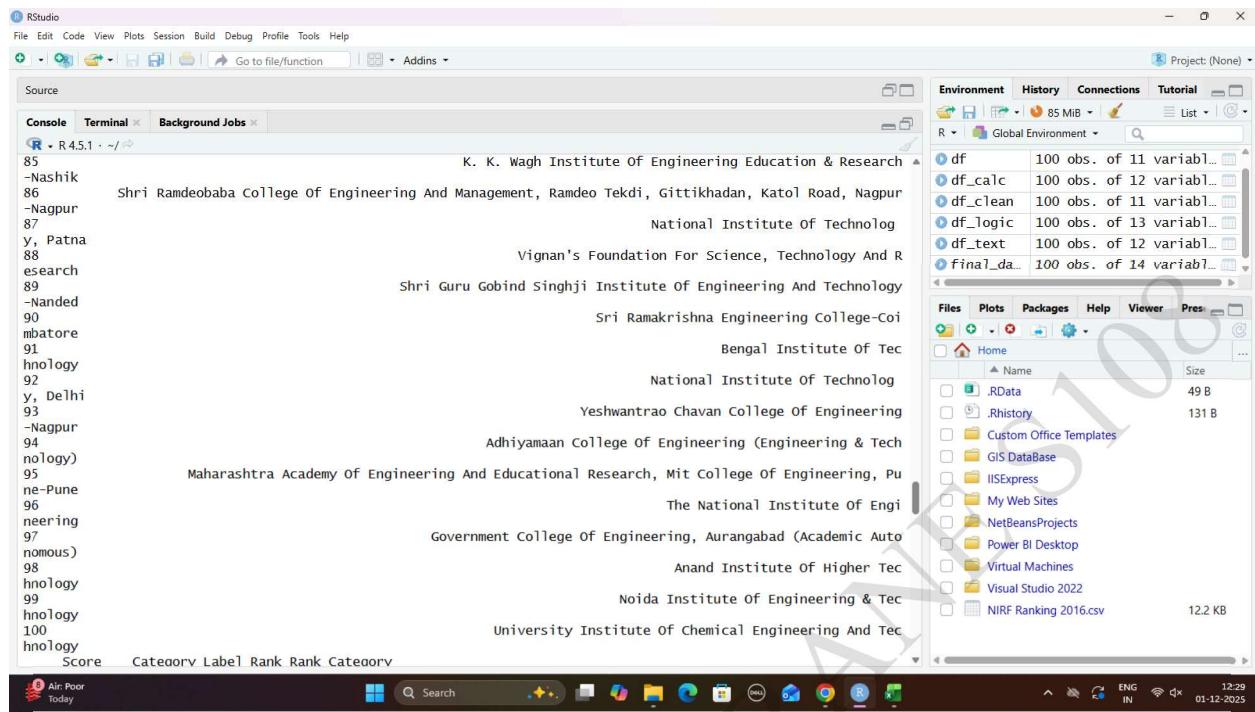
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SHETH L.U.J & SIR M.V COLLEGE OF SCIENCE

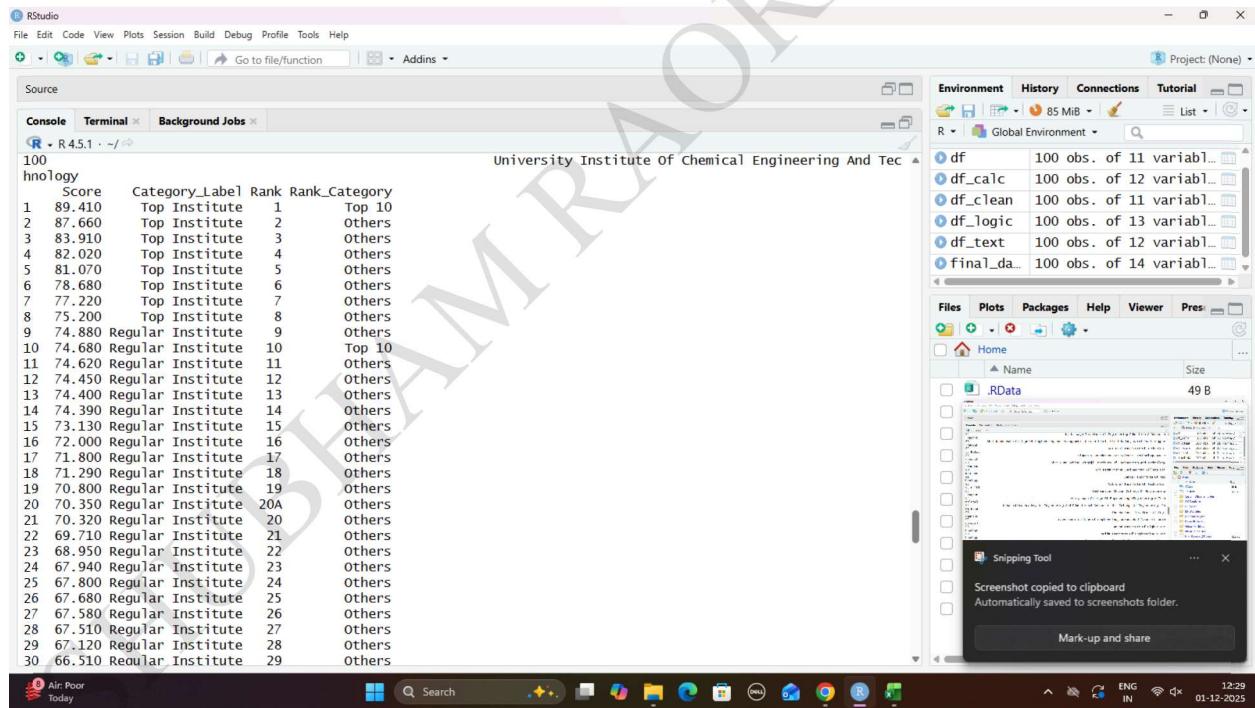
SUBJECT : Data Analysis with SAS / SPSS / R



The screenshot shows the RStudio interface with the following details:

- Console:** Displays a list of 100 institutes, each with a unique ID (e.g., 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100) and their names. The names are repeated for each institute.
- Environment:** Shows a list of data frames (df, df_calc, df_clean, df_logic, df_text, final_da) and a Global Environment.
- Files:** Shows a list of files including .RData, .Rhistory, Custom Office Templates, GIS DataBase, IISExpress, My Web Sites, NetBeansProjects, Power BI Desktop, Virtual Machines, Visual Studio 2016, and NIRF Ranking 2016.csv.

Second Screenshot:



The screenshot shows the RStudio interface with the following details:

- Console:** Displays a table with 30 rows of data. The columns are Score, Category_Label, Rank, and Rank_Category.
- Environment:** Shows a list of data frames (df, df_calc, df_clean, df_logic, df_text, final_da) and a Global Environment.
- Files:** Shows a list of files including .RData, .Rhistory, Custom Office Templates, GIS DataBase, IISExpress, My Web Sites, NetBeansProjects, Power BI Desktop, Virtual Machines, Visual Studio 2016, and Snipping Tool.

SHETH L.U.J & SIR M.V COLLEGE OF SCIENCE

SUBJECT : Data Analysis with SAS / SPSS / R

RStudio

File Edit Code View Plots Session Build Debug Profile Tools Help

Console Terminal Background Jobs

```
R > R 4.5.1 - ~/r
98 49.410 Regular Institute 98 Others
99 49.240 Regular Institute 99 Others
100 49.090 Regular Institute 100 Others
> df_text <- df_clean %>%
+   mutate(
+     Summary = paste(Institute.Name, "located in", City, "has score", Score)
+   )
> print(" --- Method C: Text Transformation ---")
[1] " --- Method C: Text Transformation ---"
> print(head(df_text$Summary))
[1] "Indian Institute Of Technology, Madras Located in Chennai has score 89.41"
[2] "Indian Institute Of Technology, Bombay Located in Bombay has score 87.66"
[3] "Indian Institute Of Technology, Kharagpur Located in Kharagpur has score 83.91"
[4] "Indian Institute Of Technology, Delhi Located in New Delhi has score 82.02"
[5] "Indian Institute Of Technology, Kanpur Located in Kanpur has score 81.07"
[6] "Indian Institute Of Technology, Roorkee Located in Roorkee has score 78.68"
> final_dataset <- df_clean %>%
+   mutate(
+     Overall_Index = (TLR + RPC + GO + OI + PERCEPTION) / 5,
+     High_Performer = ifelse(Overall_Index > 80, TRUE, FALSE),
+     Status_Report = paste0("Score: ", Score, " | Rank: ", Rank)
+   )
> print(" --- Final Combined Dataset ---")
[1] " --- Final Combined Dataset ---"
> print(head(final_dataset))
  Institute.ID Institute.Name TLR RPC GO OI PERCEPTION City
1 NIRF-ENGG-INF-77 Indian Institute Of Technology, Madras 88.26 94.02 81.81 86.11 98 Chennai
2 NIRF-ENGG-INF-312 Indian Institute Of Technology, Bombay 85.93 94.14 84.97 74.84 99 Bombay
3 NIRF-ENGG-INF-300 Indian Institute Of Technology, Kharagpur 76.23 92.68 83.95 78.05 97 Kharagpur
4 NIRF-ENGG-INF-79 Indian Institute Of Technology, Delhi 80.27 91.62 74.72 66.17 98 New Delhi
5 NIRF-ENGG-INF-228 Indian Institute Of Technology, Kanpur 66.08 93.52 85.62 70.59 98 Kanpur
6 NIRF-ENGG-INF-78 Indian Institute Of Technology, Roorkee 67.83 83.50 81.61 76.59 96 Roorkee
  State Score Rank Overall_Index High_Performer Status_Report
1 Tamil Nadu 89.41 1 89.640 TRUE Score: 89.41 | Rank: 1
2 Maharashtra 87.66 2 87.776 TRUE Score: 87.66 | Rank: 2
3 West Bengal 83.91 3 85.582 TRUE Score: 83.91 | Rank: 3
4 Delhi 82.02 4 82.156 TRUE Score: 82.02 | Rank: 4
5 Uttar Pradesh 81.07 5 82.762 TRUE Score: 81.07 | Rank: 5
6 Uttarakhand 78.68 6 81.106 TRUE Score: 78.68 | Rank: 6
> |
```

Environment History Connections Tutorial

Files Plots Packages Help Viewer Pres

Home

- 49 B .RData
- 131 B .Rhistory
- Custom Office Templates
- GIS DataBase
- IISExpress
- My Web Sites
- NetBeansProjects
- Power BI Desktop
- Virtual Machines
- Visual Studio 2022
- NIRF Ranking 2016.csv 12.2 KB

12:29 01-12-2025

RStudio

File Edit Code View Plots Session Build Debug Profile Tools Help

Console Terminal Background Jobs

S108-R PROGRAM PRAC10.R df_calc df_clean df_logic df_text final_dataset

```
df
```

Institute.ID	Institute.Name	TLR	RPC	GO	OI	PERCEPTION	City
1	Indian Institute Of Technology, Madras	88.26	94.02	81.81	86.11	98	Chennai
2	Indian Institute Of Technology, Bombay	85.93	94.14	84.97	74.84	99	Bombay
3	Indian Institute Of Technology, Kharagpur	76.23	92.68	83.95	78.05	97	Kharagpur
4	Indian Institute Of Technology, Delhi	80.27	91.62	74.72	66.17	98	New Delhi
5	Indian Institute Of Technology, Kanpur	66.08	93.52	85.62	70.59	98	Kanpur
6	Indian Institute Of Technology, Roorkee	67.83	83.50	81.61	76.59	96	Roorkee
	State Score Rank Overall_Index High_Performer Status_Report						
1	Tamil Nadu	89.41	1	89.640	TRUE Score: 89.41 Rank: 1		
2	Maharashtra	87.66	2	87.776	TRUE Score: 87.66 Rank: 2		
3	West Bengal	83.91	3	85.582	TRUE Score: 83.91 Rank: 3		
4	Delhi	82.02	4	82.156	TRUE Score: 82.02 Rank: 4		
5	Uttar Pradesh	81.07	5	82.762	TRUE Score: 81.07 Rank: 5		
6	Uttarakhand	78.68	6	81.106	TRUE Score: 78.68 Rank: 6		

12:30 01-12-2025

RStudio

File Edit Code View Plots Session Build Debug Profile Tools Help

Console Terminal Background Jobs

```
S108-R PROGRAM PRAC10.R df_calc df_clean df_logic df_text final_dataset
```

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RStudio

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Filter

Institute.ID Institute.Name TLR RPC GO OI PERCEPTION City

1	NIRF-ENGG-INF-77	Indian Institute Of Technology, Madras	88.26	94.02	81.81	86.11	98	Chennai
2	NIRF-ENGG-INF-312	Indian Institute Of Technology, Bombay	85.93	94.14	84.97	74.84	99	Bombay
3	NIRF-ENGG-INF-300	Indian Institute Of Technology, Kharagpur	76.23	92.68	83.95	78.05	97	Kharagpur
4	NIRF-ENGG-INF-79	Indian Institute Of Technology, Delhi	80.27	91.62	74.72	66.17	98	New Delhi
5	NIRF-ENGG-INF-228	Indian Institute Of Technology, Kanpur	66.08	93.52	85.62	70.59	98	Kanpur
6	NIRF-ENGG-INF-78	Indian Institute Of Technology, Roorkee	67.83	83.50	81.61	76.59	96	Roorkee
7	NIRF-ENGG-INF-345	Indian Institute Of Technology, Hyderabad	76.76	76.83	80.89	63.76	95	Hyderabad
8	NIRF-ENGG-INF-298	Indian Institute Of Technology, Gandhinagar	80.36	72.09	64.91	71.94	96	Ahmedabad
9	NIRF-ENGG-INF-340	Indian Institute Of Technology, Ropar-Rupnagar	89.96	73.56	86.42	60.67	38	Rupnagar
10	NIRF-ENGG-INF-344	Indian Institute Of Technology, Patna	79.80	68.29	74.13	68.78	93	Patna
11	NIRF-ENGG-INF-299	Indian Institute Of Technology, North Guwahati	71.92	78.66	71.82	65.62	94	Guwahati
12	NIRF-ENGG-INF-370	National Institute Of Technology, Tiruchirappalli	56.99	80.37	81.50	79.50	92	Tiruchirappalli
13	NIRF-ENGG-768	Vellore Institute Of Technology	66.95	74.72	77.38	77.11	91	Vellore
14	NIRF-ENGG-INF-423	Indian Institute Of Technology (Banaras Hindu University), V...	59.08	80.63	96.80	56.73	96	Varanasi
15	NIRF-ENGG-INF-373	Sardar Vallabhbhai National Institute Of Technology	59.02	85.24	78.43	68.81	83	Surat
16	NIRF-ENGG-INF-346	Indian Institute Of Technology, Indore	86.75	75.78	89.85	39.23	46	Indore
17	NIRF-ENGG-1-2451694143	Birla Institute Of Technology	55.39	81.06	82.47	65.50	90	RANCHI

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Console Terminal Background Jobs

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> View(df_calc)
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> View(df_logic)

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RStudio

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S108-R PROGRAM PRAC10.R df_calc df_clean df_logic df_text final_dataset

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Showing 1 to 17 of 100 entries, 13 total columns

Console Terminal Background Jobs

R 4.5.1 -/→

> View(df_calc)
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Console Terminal Background Jobs
> R 4.5.1 -/-
> View(df_calc)
> View(df_clean)
> View(df_logic)

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Showing 1 to 17 of 100 entries, 14 total columns

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Console Terminal Background Jobs
> R 4.5.1 -/-
> View(df_calc)
> View(df_clean)
> View(df_logic)

```