

MVLU COLLEGE

PRACTICAL NO. 7

AIM: Selecting and dropping variables using select() in R. import dataset.

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The screenshot shows the RStudio interface with the following details:

- Console:** Displays a series of R commands and their outputs. The code involves reading data from Spotify and manipulating it using dplyr functions like `select`, `filter`, and `group_by`. It also includes operations like `dropped_multiple` and `dropped_one`.
- Global Environment:** A tree view of the global environment showing various objects and their characteristics (e.g., 298 obs. of 17 variables).
- File Bar:** Contains tabs for Source, Environment, History, Connections, and Tutorial.
- File Menu:** Includes options like File, Edit, Code, View, Plots, Session, Build, Debug, Profile, Tools, Help, and Help.
- Help Bar:** Shows "Project: (None)" and "List" with a search icon.
- Bottom Navigation:** Includes tabs for Files, Plots, Packages, Help, Viewer, and Presentation.

RStudio

File Edit Code View Plots Session Build Debug Profile Tools Help

Source

Console Background Jobs

R > R4.5.2 - ~

```
track_name artist_name track_popularity
1 Trippy Mane (ft. Project Pat) Diplo 0
2 Yelawolf OMG! Yelawolf 0
3 Hard 2 Find Riff Raff 4
> range_cols <- spotify %>
+ select(artist_name, album_name)
> print(head(range_cols, 3))
#> #> #>
```

	artist_name	artist_popularity	artist_followers	artist_genres	album_id
1	Diplo	77	2812821	moombahton	SQRFnGnbEMGFBKF2xTz5z
2	Yelawolf	64	2363438	country hip hop, southern hip hop	45Umwmv0xtJkL0jzg92
3	Riff Raff	48	193302	N/A	SE3ZEAL8guyWaLYB9L7gbp

```
album_name
1 d00mscrvll, Vol. 1
2 Yelawolf, OMG!
3 Hard 2 Find
>
> starts_with_track <- spotify %>
+ select(starts_with("track"))
> print(head(starts_with_track, 3))
#> #> #>
```

	track_id	track_name	track_number	track_popularity	track_duration_min
1	3E35LyekobimF5rAfmz1	Trippy Mane (ft. Project Pat)	4	0	1.55
2	1Q0w6G2z1MuqHPP2708	Yelawolf, OMG!	1	0	3.07
3	7ndkjzo1Ylfrx9EtBpmGU	Hard 2 Find	1	4	2.55

```
dropped_one <- spotify %>
+ select(-explicit)
> print(names(dropped_one))
#> [1] "track_id"           "track_name"        "track_number"      "track_popularity"   "artist_name"
#> [6] "artist_popularity"  "artist_followers"  "artist_genres"    "album_id"          "album_name"
#> [11] "album_release_date" "album_total_tracks" "album_type"       "track_duration_min"
```

```
dropped_multiple <- spotify %>
+ select(-(artist_followers, artist_genres))
> print(names(dropped_multiple))
#> [1] "track_id"           "track_name"        "track_number"      "track_popularity"   "artist_name"
#> [6] "artist_name"        "artist_popularity" "album_id"          "album_name"        "explicit"
#> [11] "album_total_tracks" "album_type"       "track_duration_min"
```

```
dropped_all <- spotify %>
+ select(-(album_id, album_total_tracks))
> print(names(dropped_all))
#> [1] "track_id"           "track_name"        "track_number"      "track_popularity"   "explicit"
#> [6] "artist_name"        "artist_popularity" "artist_followers"  "artist_genres"     "album_type"
#> [11] "track_duration_min"
```

Environment History Connections Tutorial

Import Dataset 143 MB | Global Environment

Data

- appended 298 obs. of 17 variables
- Cleaned_BMW_Sales... 99 obs. of 11 variables
- cleaned_Car_Price... 199 obs. of 10 variables
- df1 99 obs. of 11 variables
- df2 199 obs. of 10 variables
- dropped_multiple 4573 obs. of 13 variables
- dropped_one 4573 obs. of 14 variables
- dropped_range 4573 obs. of 11 variables
- housing 4573 obs. of 15 variables
- merged_full 294 obs. of 17 variables
- merged_inner 4 obs. of 17 variables
- merged_left 99 obs. of 17 variables
- range_cols 4573 obs. of 6 variables
- selected_cols 4573 obs. of 3 variables
- spotify 4573 obs. of 15 variables
- spotify_data_clean 8573 obs. of 15 variables
- starts_with_track 4573 obs. of 5 variables

Values

key	"vehicle_id"
keys	chr [1:4] "model" "year" "fuel_type" "transmissi...

Files Plots Packages Help Viewer Presentation

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