

MYTHRI'S STT LAB PROJECT

➤ t=read.csv("C:/Users/banda/OneDrive/Desktop/stt/project.csv")

➤ t

142		Novo Balani
	artist.s._name	
1	Latto, Jung Kook	
2	Myke Towers	
3	Olivia Rodrigo	
4	Taylor Swift	
5	Bad Bunny	
6	Dave, Central Cee	
7	Eslabon Armado, Peso Pluma	
8	Quevedo	
9	Gunna	
10	Peso Pluma, Yng Lvcas	
11	Bad Bunny, Grupo Frontera	
12	NewJeans	
13	Miley Cyrus	
14	David Kushner	
15	Harry Styles	
16	SZA	
17	Fifty Fifty	
18	Billie Eilish	
19	Feid, Young Miko	
20	Jimin	
21	Gabito Ballesteros, Junior H, Peso Pluma	
22	Taylor Swift	
23	Arctic Monkeys	
24	Bizarrap, Peso Pluma	
25	The weeknd, Madonna, Playboi Carti	
26	Fuerza Regida	
27	Riizma, Selena G	
28	Tainy, Bad Bunny	
29	Morgan Wallen	
30	Dua Lina	

	track_name	
1	Seven (feat. Latto) (Explicit Ver.)	
2	LALA	
3	vampire	
4	Cruel Summer	
5	WHERE SHE GOES	
6	Sprinter	
7	Ella Baila Sola	
8	Columbia	
9	fukumean	
10	La Bebe - Remix	
11	un x100to	
12	Super Shy	
13	Flowers	
14	Daylight	
15	As It Was	
16	Kill Bill	
17	Cupid - Twin Ver.	
18	What Was I Made For? [From The Motion Picture "Barbie"]	
19	Classy 101	
20	Like Crazy	
21	LADY GAGA	
22	I Can See You (Taylor's Version) (From The	
23	I Wanna Be Yours	
24	Peso Pluma: Bzrp Music Sessions, Vol. 55	
25	Popular (with Playboi Carti & Madonna) - The Idol Vol. 1 (Music from the HBO Original Series)	
26	SABOR FRESA	
27	Calm Down (with Selena Gomez)	
28	MOJABI GHOST	
29	Last Night	
30	Dance The Night (From Barbie The Album)	

	artist_count	released_year	released_month	released_day	streams
1	2	2023	7	14	141381703
2	1	2023	3	23	133716286
3	1	2023	6	30	140003974
4	1	2019	8	23	800840817
5	1	2023	5	18	303236322
6	2	2023	6	1	183706234
7	2	2023	3	16	725980112
8	1	2023	7	7	58149378
9	1	2023	5	15	95217315
10	2	2023	3	17	553634067
11	2	2023	4	17	505671438
12	1	2023	7	7	58255150
13	1	2023	1	12	1316855716
14	1	2023	4	14	387570742
15	1	2022	3	31	2513188493
16	1	2022	12	8	1163093654
17	1	2023	2	24	496795686
18	1	2023	7	13	30546883
19	2	2023	3	31	335222234
20	1	2023	3	24	363369738
21	3	2023	6	22	86444842
22	1	2023	7	7	52135248
23	1	2013	1	1	1297026226
24	2	2023	5	31	200647221
25	3	2023	6	2	115364561
26	1	2023	6	22	78300654
27	2	2022	3	25	899183384
28	2	2023	6	29	61245289
29	1	2023	1	31	429829812
30	1	2023	5	25	127408954
31	1	2023	7	13	22581161

➤ Jk <- t %>% arrange(desc(streams))

➤ Jk

```
> jk <- t %>% arrange(desc(streams))
> jk
```

	track_name	artist.s._name	artist_count	released_year
1	Blinding Lights	The Weeknd	1	2019
2	Shape of You	Ed Sheeran	1	2017
3	Someone You Loved	Lewis Capaldi	1	2018
4	Dance Monkey	Tones and I	1	2019
5	Sunflower - Spider-Man: Into the Spider-Verse	Post Malone, Swae Lee	2	2018
6	One Dance	Drake, WizKid, Kyla	3	2016
7	STAY (with Justin Bieber)	Justin Bieber, The Kid Laroi	2	2021
8	Believer	Imagine Dragons	1	2017
9	Closer	The Chainsmokers, Halsey	2	2016
10	Starboy	The Weeknd, Daft Punk	2	2016
11	Perfect	Ed Sheeran	1	2017
12	Heat Waves	Glass Animals	1	2020
13	As It Was	Harry Styles	1	2022
14	Señorita	Shawn Mendes, Camila Cabello	2	2019
15	Say You Won't Let Go	James Arthur	1	2016
16	Lovely - Bonus Track	Billie Eilish, Khalid	2	2017
17	Watermelon Sugar	Harry Styles	1	2019
18	Don't Start Now	Dua Lipa	1	2019
19	Lucid Dreams	Juice WRLD	1	2017
20	Sweater Weather	The Neighbourhood	1	2012
21	Thinking Out Loud	Ed Sheeran	1	2014
22	Photograph	Ed Sheeran	1	2014
23	Something Just Like This	The Chainsmokers, Coldplay	2	2017
24	Bohemian Rhapsody - Remastered 2011	Queen	1	1975
25	Shallow	Lady Gaga, Bradley Cooper	2	2018
26	Take Me To Church	Hozier	1	2013
27	Circles	Post Malone	1	2019
28	Love Yourself	Justin Bieber	1	2015
29	All of Me	John Legend	1	2013

	released_month	released_day	streams
1	11	29	3703895074
2	1	6	3562543890
3	11	8	2887241814
4	5	10	2864791672
5	10	9	2808096550
6	4	4	2713922350
7	7	9	2665343922
8	1	31	2594040133
9	5	31	2591224264
10	9	21	2565529693
11	1	1	2559529074
12	6	28	2557975762
13	3	31	2513188493
14	6	19	2484812918
15	9	9	2420461338
16	8	11	2355719893
17	11	17	2322580122
18	10	31	2303033973
19	6	15	2288695111
20	5	14	2282771485
21	1	1	2280566092
22	6	20	2236667932
23	2	22	2204080728
24	10	31	2197010679
25	9	27	2159346687
26	9	13	2135158446
27	8	30	2132335812
28	11	9	2123309722
29	8	1	2086124197
30	1	1	2011464183
31	1	1	2009094673

➤ Head(jk)

```
> head(jk)
```

	track_name	artist.s._name	artist_count	released_year	released_month	released_day	streams
1	Blinking Lights	The Weeknd	1	2019	11	29	3703895074
2	Shape of You	Ed Sheeran	1	2017	1	6	3562543890
3	Someone You Loved	Lewis Capaldi	1	2018	11	8	2887241814
4	Dance Monkey	Tones and I	1	2019	5	10	2864791672
5	Sunflower - Spider-Man: Into the Spider-Verse	Post Malone, Swae Lee	2	2018	10	9	2808096550
6	One Dance	Drake, WizKid, Kyla	3	2016	4	4	2713922350

➤ Tail(jk)

```
> tail(jk)
```

	track_name	artist.s._name	artist_count
948	Overdrive	Post Malone	1
949	Go! Bolinha, Go! Quadrado 2	Mc Pedrinho, DJ 900	2
950	QUEMA	Sog, Ryan Castro, Peso Pluma	3
951	Jhoom Jo Pathaan	Arijit Singh, Vishal Dadlani, Sukriti Kakar, Vishal-Shekhar, Shekhar Ravjiani, Kumar	6
952	Que Vuelvas	Carin Leon, Grupo Frontera	2
953	Love Grows (Where My Rosemary Goes)	Edison Lighthouse	1

	released_year	released_month	released_day	streams
948	2023	7	14	14780425
949	2023	6	1	11956641
950	2023	7	13	11599388
951	2022	12	22	1365184
952	2022	12	9	2762
953	1970	1	1	NA

- `artist_streams <- t %>%`
`group_by(artist.s._name) %>%`
`summarise(total_streams = sum(streams, na.rm = TRUE)) %>%`
`arrange(desc(total_streams))`
- `artiist_streams`

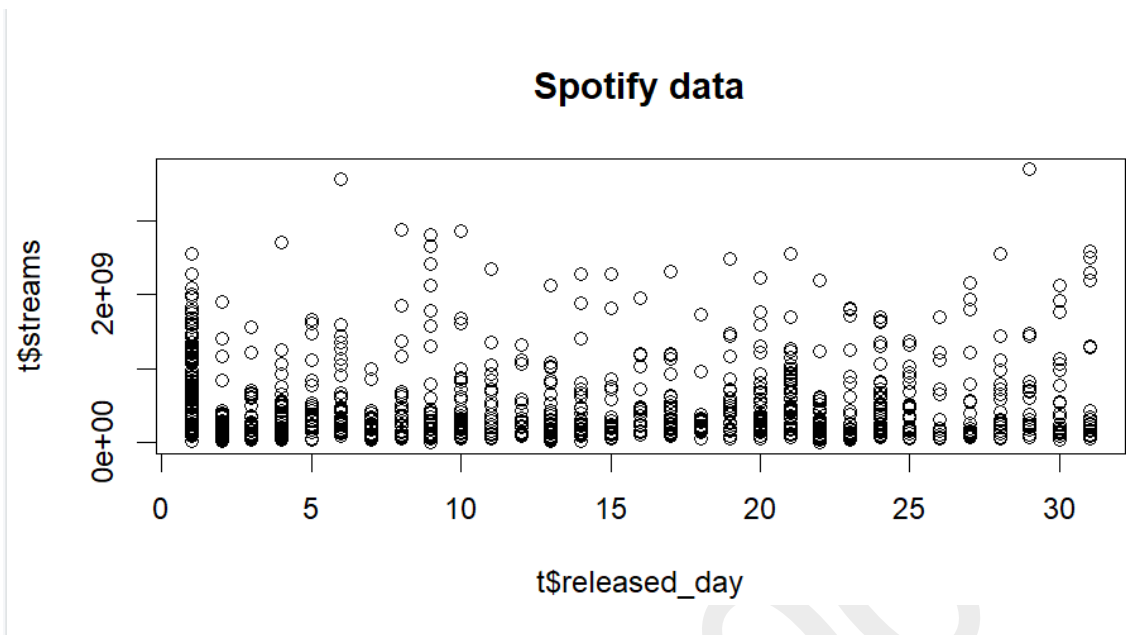
```
> artist_streams <- t %>%
+   group_by(artist.s._name) %>%
+   summarise(total_streams = sum(streams, na.rm = TRUE)) %>%
+   arrange(desc(total_streams))
> artiist_streams
Error: object 'artiist_streams' not found
> artist_streams
# A tibble: 645 × 2
  artist.s._name total_streams
  <chr>          <dbl>
1 The Weeknd      14185552870
2 Taylor Swift    14053658300
3 Ed Sheeran      13908947204
4 Harry Styles    11608645649
5 Bad Bunny       9997799607
6 Olivia Rodrigo  7442148916
7 Eminem          6183805596
8 Bruno Mars      5846920599
9 Arctic Monkeys  5569806731
10 Imagine Dragons 5272484650
```

- `bts_rank <- artist_streams %>%`
`filter(artist.s._name == "BTS")`

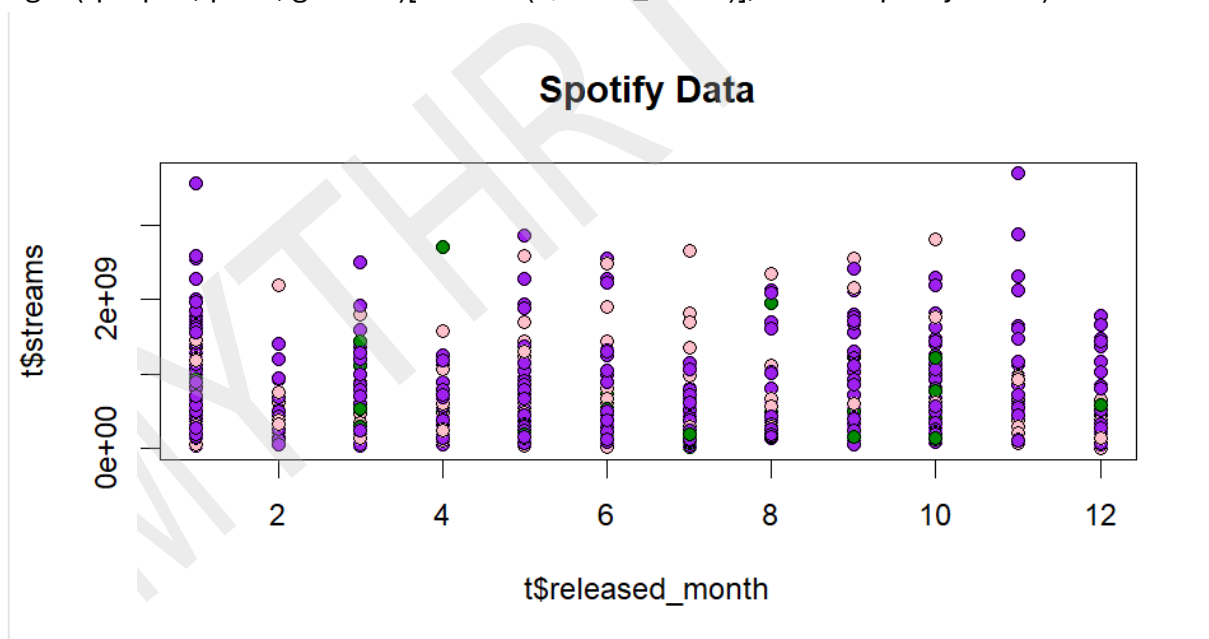
➤ `bts_rank`

```
> bts_rank <- artist_streams %>%
+   filter(artist.s._name == "BTS")
> bts_rank
# A tibble: 1 × 3
  artist.s._name total_streams rank
  <chr>          <dbl> <int>
1 BTS            4389891591    15
```

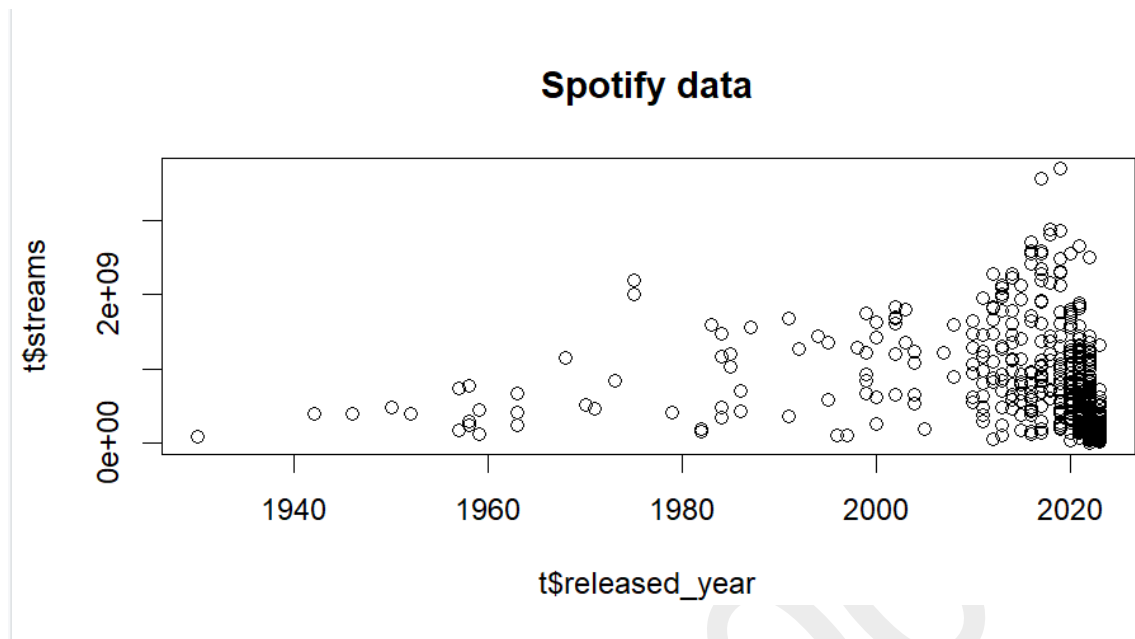
➤ `plot(t$released_day, t$streams, main="Spotify data")`



➤ `plot(t$streams, t$released_month, pch=21, bg=c("purple","pink","green4")[unclass(t$artist_count)], main="Spotify Data")`

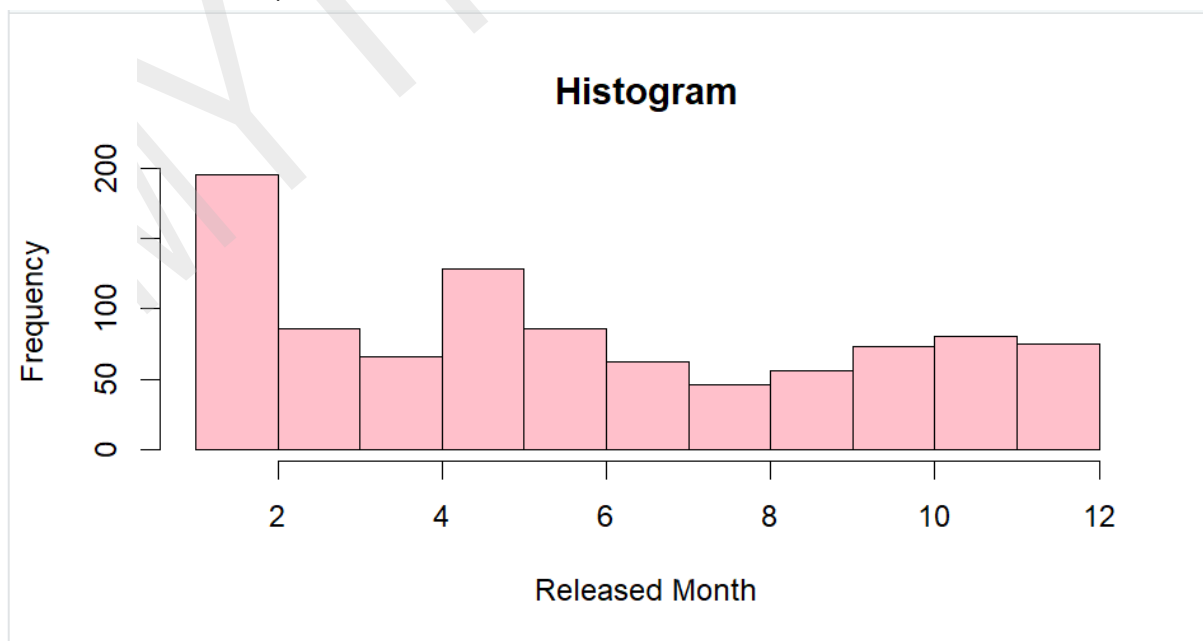


➤ `plot(t$released_year, t$streams , main="Spotify data")`

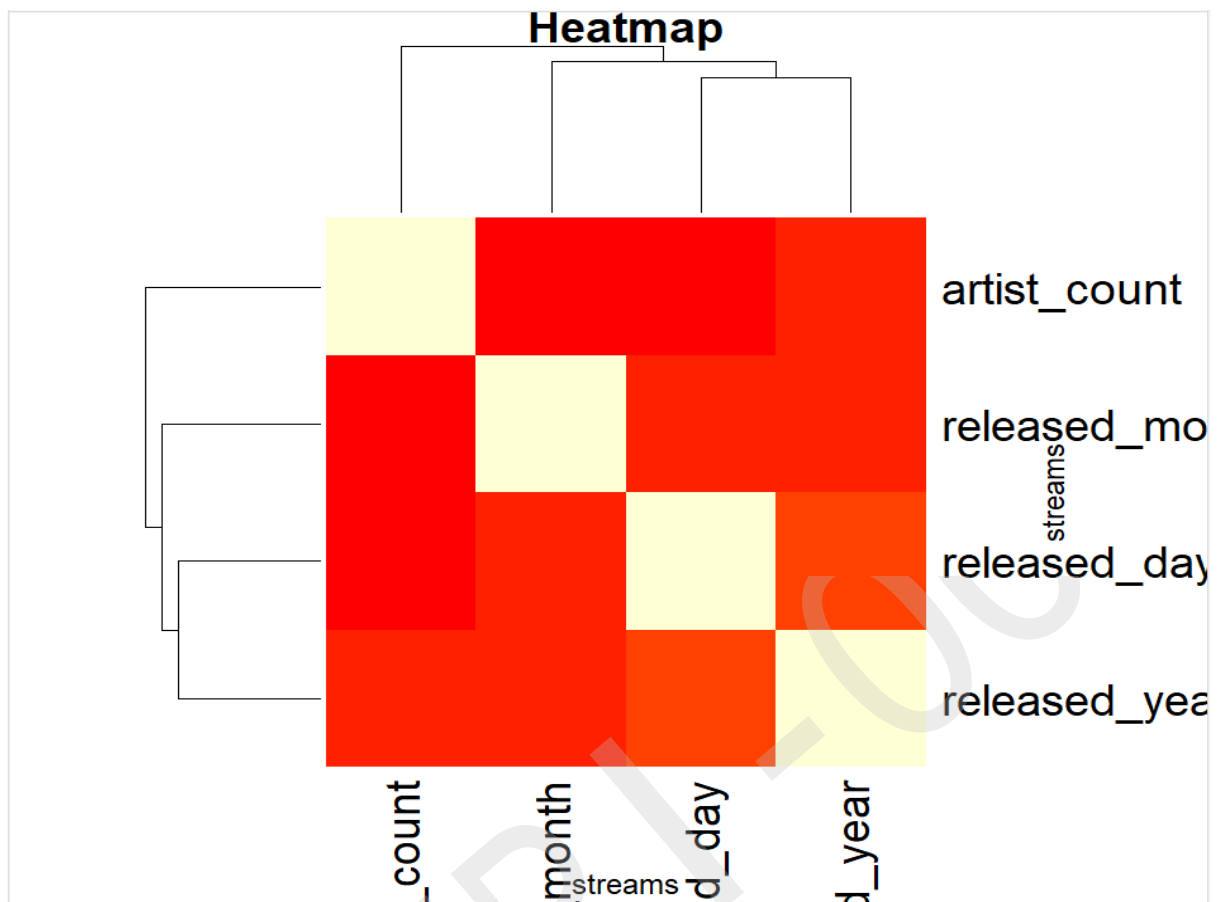


HISTOGRAM

➤ `hist(t$released_month,`
`main = "Histogram",`
`xlab = "Released Month",`
`col = "pink",`
`border = "black")`



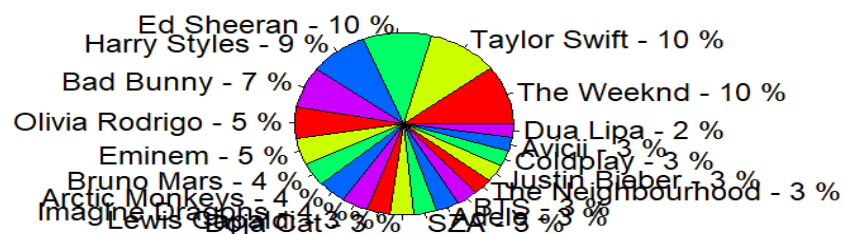
HEATMAP



PIE CHART

```
> top_artists <- head(artist_streams, 20)
> pie(top_artists$total_streams,
+     labels = labels,
+     main = "Top 20 Artists by Total Streams",
+     col = rainbow(5))
```

Top 20 Artists by Total Streams



BOX PLOT

```
> top5 <- head(artist_streams, 5)
> barplot(top5$total_streams,
+         names.arg = top5$artist.s._name,
+         col = "skyblue",
+         main = "Top 5 Artists by Total Streams",
+         xlab = "Artist",
+         ylab = "Total Streams",
+         las = 2)
>
```

