“UE20CS312 - Data Analytics - Worksheet 1a - Part 1 - Exploring data with R”

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2022-08-25

Loading and viewing the file at glance

library(tidyverse)

## Warning: package 'tidyverse' was built under R version 4.2.1

## ── Attaching packages ─────────────────────────────────────── tidyverse 1.3.2 ──  
## ✔ ggplot2 3.3.6 ✔ purrr 0.3.4  
## ✔ tibble 3.1.8 ✔ dplyr 1.0.9  
## ✔ tidyr 1.2.0 ✔ stringr 1.4.0  
## ✔ readr 2.1.2 ✔ forcats 0.5.2

## Warning: package 'ggplot2' was built under R version 4.2.1

## Warning: package 'tibble' was built under R version 4.2.1

## Warning: package 'tidyr' was built under R version 4.2.1

## Warning: package 'readr' was built under R version 4.2.1

## Warning: package 'purrr' was built under R version 4.2.1

## Warning: package 'dplyr' was built under R version 4.2.1

## Warning: package 'stringr' was built under R version 4.2.1

## Warning: package 'forcats' was built under R version 4.2.1

## ── Conflicts ────────────────────────────────────────── tidyverse\_conflicts() ──  
## ✖ dplyr::filter() masks stats::filter()  
## ✖ dplyr::lag() masks stats::lag()

df <- read\_csv("C:\\Users\\Gaurav\\Desktop\\DA LAB\\WORKSHEET1\\top\_1000\_instagrammers.csv")

## Rows: 1000 Columns: 7  
## ── Column specification ────────────────────────────────────────────────────────  
## Delimiter: ","  
## chr (6): Name, Category, Followers, Audience Country, Authentic Engagement, ...  
## dbl (1): Rank  
##   
## ℹ Use `spec()` to retrieve the full column specification for this data.  
## ℹ Specify the column types or set `show\_col\_types = FALSE` to quiet this message.

df

## # A tibble: 1,000 × 7  
## Name Rank Category Follo…¹ Audie…² Authe…³ Engag…⁴  
## <chr> <dbl> <chr> <chr> <chr> <chr> <chr>   
## 1 cristiano 1 Sports with a ball 462.9M India 5.5M 6.6M   
## 2 leomessi 2 Sports with a ballFamily 347.2M Argent… 3.6M 4.8M   
## 3 kendalljenner 3 ModelingFashion 247.6M United… 3M 4.9M   
## 4 arianagrande 4 Music 321.4M United… 2.4M 3.4M   
## 5 zendaya 5 Cinema & Actors/actresse… 147M United… 4.3M 5.8M   
## 6 kimkardashian 6 FashionBeauty 323.6M United… 1.7M 2.5M   
## 7 taylorswift 7 Music 218.2M Brazil 2.4M 3.2M   
## 8 kyliejenner 8 FashionModelingBeauty 357M United… 1.2M 1.9M   
## 9 selenagomez 9 MusicLifestyle 334.9M United… 1.4M 1.9M   
## 10 thv 10 <NA> 46.3M United… 13.3M 13.3M   
## # … with 990 more rows, and abbreviated variable names ¹​Followers,  
## # ²​`Audience Country`, ³​`Authentic Engagement`, ⁴​`Engagement Avg.`  
## # ℹ Use `print(n = ...)` to see more rows

As you can see the 10th ranked influencer,thv,their category is missing.This suggests that the data is missing completely at random(MCAR).Hence,filling the blanks with NA and then storing them separately in data1.

data <- read.csv('C:\\Users\\Gaurav\\Desktop\\DA LAB\\WORKSHEET1\\top\_1000\_instagrammers.csv', header=TRUE, na.strings = c("","NA"))  
library("tidyr")  
data1<- data %>% drop\_na()   
data1

## Name Rank  
## 1 cristiano 1  
## 2 leomessi 2  
## 3 kendalljenner 3  
## 4 arianagrande 4  
## 5 zendaya 5  
## 6 kimkardashian 6  
## 7 taylorswift 7  
## 8 kyliejenner 8  
## 9 selenagomez 9  
## 10 lalalalisa\_m 11  
## 11 jennierubyjane 12  
## 12 virat.kohli 13  
## 13 tomholland2013 14  
## 14 beyonce 18  
## 15 khloekardashian 19  
## 16 sooyaaa\_\_ 20  
## 17 billieeilish 21  
## 18 neymarjr 22  
## 19 khaby00 23  
## 20 justinbieber 24  
## 21 roses\_are\_rosie 25  
## 22 uarmyhope 26  
## 23 badbunnypr 27  
## 24 nickiminaj 28  
## 25 instagram 29  
## 26 bts.bighitofficial 31  
## 27 iamcardib 32  
## 28 kourtneykardash 33  
## 29 karolg 34  
## 30 zayn 35  
## 31 milliebobbybrown 37  
## 32 gigihadid 38  
## 33 jlo 39  
## 34 kingjames 40  
## 35 therock 41  
## 36 adele 42  
## 37 georginagio 43  
## 38 champagnepapi 44  
## 39 katrinakaif 45  
## 40 harrystyles 46  
## 41 mileycyrus 47  
## 42 eunwo.o\_c 48  
## 43 travisscott 49  
## 44 ester\_exposito 50  
## 45 robertdowneyjr 51  
## 46 dlwlrma 52  
## 47 actorleeminho 53  
## 48 narendramodi 54  
## 49 shawnmendes 55  
## 50 k.mbappe 56  
## 51 johnnydepp 57  
## 52 aliaabhatt 58  
## 53 oliviarodrigo 59  
## 54 anushkasharma 60  
## 55 dualipa 61  
## 56 dovecameron 62  
## 57 camila\_cabello 63  
## 58 noahschnapp 64  
## 59 danbilzerian 65  
## 60 charlidamelio 66  
## 61 dojacat 67  
## 62 chrishemsworth 68  
## 63 kimberly.loaiza 69  
## 64 lelepons 70  
## 65 iamzlatanibrahimovic 71  
## 66 mosalah 72  
## 67 bn\_sj2013 73  
## 68 jongsuk0206 74  
## 69 handemiyy 75  
## 70 niallhoran 76  
## 71 paulodybala 77  
## 72 gal\_gadot 78  
## 73 oohsehun 79  
## 74 realmadrid 80  
## 75 sadiesink\_ 81  
## 76 lilireinhart 82  
## 77 chrisbrownofficial 83  
## 78 fcbarcelona 84  
## 79 iamsrk 85  
## 80 ddlovato 86  
## 81 rashmika\_mandanna 87  
## 82 dishapatani 88  
## 83 songkang\_b 89  
## 84 bellahadid 90  
## 85 jacksonwang852g7 91  
## 86 deepikapadukone 92  
## 87 dannapaola 93  
## 88 blackpinkofficial 94  
## 89 haileybieber 95  
## 90 karimbenzema 96  
## 91 zacefron 97  
## 92 antonelaroccuzzo 98  
## 93 realstraykids 99  
## 94 nasa 100  
## 95 nasa 101  
## 96 twicetagram 104  
## 97 priyankachopra 105  
## 98 ursulolita 106  
## 99 jenniferaniston 107  
## 100 hi\_high\_hiy 108  
## 101 addisonraee 109  
## 102 nike 110  
## 103 finnwolfhardofficial 111  
## 104 samantharuthprabhuoffl 112  
## 105 madelame 113  
## 106 miakhalifa 114  
## 107 jannatzubair29 115  
## 108 katyperry 116  
## 109 meganfox 117  
## 110 vindiesel 118  
## 111 kapilsharma 119  
## 112 camimendes 120  
## 113 akshaykumar 121  
## 114 tyga 122  
## 115 ladygaga 124  
## 116 kritisanon 125  
## 117 hoooooyeony 126  
## 118 mrbeast 127  
## 119 rosalia.vt 128  
## 120 shakira 129  
## 121 pewdiepie 130  
## 122 hrithikroshan 131  
## 123 madelyncline 132  
## 124 hazardeden\_10 133  
## 125 shraddhakapoor 134  
## 126 vinijr 135  
## 127 emrata 136  
## 128 lanarhoades 137  
## 129 britneyspears 138  
## 130 maluma 139  
## 131 beingsalmankhan 140  
## 132 luisitocomunica 141  
## 133 natgeo 142  
## 134 madisonbeer 143  
## 135 jacquelinef143 144  
## 136 garethbale11 145  
## 137 norafatehi 146  
## 138 sabrinacarpenter 147  
## 139 marcelotwelve 148  
## 140 rohittt\_09\_ 149  
## 141 jasonstatham 150  
## 142 thedeverakonda 151  
## 143 theestallion 152  
## 144 theweeknd 153  
## 145 shahidkapoor 154  
## 146 elrubiuswtf 155  
## 147 annehathaway 156  
## 148 sydney\_sweeney 157  
## 149 erling.haaland 158  
## 150 lewishamilton 159  
## 151 hegdepooja 160  
## 152 luissuarez9 161  
## 153 championsleague 162  
## 154 433 163  
## 155 eminem 164  
## 156 rohitsharma45 165  
## 157 zkdlin 166  
## 158 jichangwook 168  
## 159 jamesrodriguez10 169  
## 160 greeicy 171  
## 161 emmachamberlain 172  
## 162 evaluna 173  
## 163 henrycavill 174  
## 164 carlinhosmaiaof 175  
## 165 domelipa 176  
## 166 saraalikhan95 177  
## 167 m10\_official 178  
## 168 cznburak 179  
## 169 imhyoseop 180  
## 170 vancityreynolds 181  
## 171 stephencurry30 182  
## 172 strangerthingstv 183  
## 173 justintimberlake 184  
## 174 feliciathegoat 185  
## 175 haileesteinfeld 186  
## 176 lukamodric10 187  
## 177 renebaebae 188  
## 178 do0\_nct 189  
## 179 paulpogba 190  
## 180 heybiblee 191  
## 181 sergioramos 192  
## 182 nattinatasha 193  
## 183 awez\_darbar 195  
## 184 bizarrap 196  
## 185 nina 197  
## 186 leedongwook\_official 198  
## 187 \_imyour\_joy 199  
## 188 bambam1a 200  
## 189 anuel 201  
## 190 momo 202  
## 191 zidane 204  
## 192 hardikpandya93 206  
## 193 sza 207  
## 194 zachking 208  
## 195 anitta 209  
## 196 liluzivert 210  
## 197 kartikaaryan 211  
## 198 louist91 212  
## 199 nehakakkar 213  
## 200 iamhalsey 214  
## 201 thenameisyash 215  
## 202 davidbeckham 216  
## 203 janhvikapoor 218  
## 204 lilbaby 219  
## 205 onyourm\_\_ark 220  
## 206 bbrightvc 221  
## 207 riaricis1795 223  
## 208 hannahstocking 224  
## 209 iansomerhalder 225  
## 210 somsomi0309 226  
## 211 mirella 227  
## 212 iamferv 228  
## 213 skuukzky 229  
## 214 anushkasen0408 230  
## 215 kunaguero 231  
## 216 psg 232  
## 217 mr\_faisu\_07 233  
## 218 larasilva 234  
## 219 paulolondra 235  
## 220 winmetawin 236  
## 221 taeoxo\_nct 237  
## 222 tinistoessel 238  
## 223 klrahul 239  
## 224 hero\_ft 240  
## 225 johnnyjsuh 241  
## 226 carryminati 242  
## 227 jessicah\_o 243  
## 228 samoylovaoxana 244  
## 229 colesprouse 245  
## 230 tigerjackieshroff 246  
## 231 manurios 249  
## 232 juandediospantoja 251  
## 233 rauwalejandro 252  
## 234 luvadepedreiro 253  
## 235 ronaldinho 254  
## 236 avneetkaur\_13 255  
## 237 xeesoxee 256  
## 238 daddyyankee 257  
## 239 iambeckyg 258  
## 240 xxxibgdrgn 259  
## 241 ileana\_official 260  
## 242 taeyeon\_ss 261  
## 243 sunnyleone 262  
## 244 keniaos 264  
## 245 maisa 265  
## 246 vickykaushal09 266  
## 247 riyaz.14 267  
## 248 sachintendulkar 268  
## 249 layzhang 269  
## 250 varundvn 270  
## 251 trippieredd 271  
## 252 clean\_0828 272  
## 253 angelrai07 274  
## 254 liampayne 276  
## 255 psg 278  
## 256 hi\_sseulgi 279  
## 257 charlieputh 280  
## 258 ashishchanchlani 281  
## 259 iammichelemorroneofficial 282  
## 260 anguscloud 284  
## 261 shaymitchell 285  
## 262 kiaraaliaadvani 286  
## 263 krisjenner 287  
## 264 perrieedwards 288  
## 265 yaocabrera 289  
## 266 tenlee\_1001 290  
## 267 min9yu\_k 291  
## 268 alexandradaddario 292  
## 269 alidaei 293  
## 270 gatenm123 294  
## 271 yaocabrera 295  
## 272 \_rl9 296  
## 273 bighit\_ent 297  
## 274 kimjuncotton 298  
## 275 whinderssonnunes 299  
## 276 imsebastianstan 301  
## 277 therealcalebmclaughlin 302  
## 278 nct 303  
## 279 m\_kayoung 305  
## 280 yellow\_3to3 306  
## 281 rudeth 308  
## 282 enhypen 311  
## 283 realbarbarapalvin 312  
## 284 marktuan 313  
## 285 maudyayunda 314  
## 286 bretmanrock 315  
## 287 elrodrigocontreras 316  
## 288 nct127 317  
## 289 lizasoberano 319  
## 290 bellapoarch 320  
## 291 bhuvan.bam22 321  
## 292 txt\_bighit 322  
## 293 jamescharles 324  
## 294 taehyung.bighitentertainment 325  
## 295 postmalone 326  
## 296 ssinz7 327  
## 297 o.dembele7 328  
## 298 ranveersingh 329  
## 299 jinyoung\_0922jy 330  
## 300 luisasonza 331  
## 301 bellathorne 332  
## 302 ksi 333  
## 303 kevindebruyne 334  
## 304 marvel 335  
## 305 fedez 337  
## 306 prattprattpratt 338  
## 307 itzy.all.in.us 339  
## 308 lestykejora 340  
## 309 jbalvin 341  
## 310 kehlani 342  
## 311 manchesterunited 343  
## 312 peytonlist 344  
## 313 wi\_\_wi\_\_wi 345  
## 314 dixiedamelio 346  
## 315 vinniehacker 347  
## 316 madhuridixitnene 348  
## 317 mathildtantot 349  
## 318 keerthysureshofficial 350  
## 319 ibaillanos 351  
## 320 easymoneysniper 352  
## 321 michelleobama 353  
## 322 ross\_lynch 354  
## 323 attahalilintar 355  
## 324 lizgillz 356  
## 325 cbum 357  
## 326 hassan\_reyvandi 358  
## 327 nicki.nicole 359  
## 328 demirose 360  
## 329 natashawilona12 361  
## 330 lexibrookerivera 362  
## 331 thebursin 363  
## 332 imouniroy 364  
## 333 yasmine\_sabri 365  
## 334 kevinhart4real 366  
## 335 sidmalhotra 367  
## 336 sommerray 368  
## 337 brunamarquezine 369  
## 338 miguel.g.herran 370  
## 339 louispartridge\_ 371  
## 340 pubity 372  
## 341 taina 373  
## 342 alok 374  
## 343 camilo 375  
## 344 alwaysramcharan 376  
## 345 lilyjcollins 377  
## 346 lilnasx 378  
## 347 sportscenter 379  
## 348 phil.coutinho 380  
## 349 thenotoriousmma 381  
## 350 ms\_puiyi 382  
## 351 nickjonas 384  
## 352 hyunah\_aa 385  
## 353 weareone.exo 387  
## 354 lildurk 388  
## 355 sadiomaneofficiel 390  
## 356 9gag 391  
## 357 for\_everyoung10 392  
## 358 caradelevingne 393  
## 359 saweetie 395  
## 360 daquan 396  
## 361 darshanravaldz 398  
## 362 jadepicon 399  
## 363 barbieferreira 400  
## 364 darshanravaldz 402  
## 365 kyo1122 403  
## 366 barbieferreira 404  
## 367 rakulpreet 405  
## 368 leaelui 406  
## 369 simoneses 407  
## 370 marvelstudios 408  
## 371 angeldimariajm 409  
## 372 juliette 410  
## 373 mingue.k 411  
## 374 obj 412  
## 375 goar\_avetisyan 413  
## 376 yerimiese 414  
## 377 demetozdemir 415  
## 378 burakozcivit 416  
## 379 gururandhawa 417  
## 380 dntlrdl 418  
## 381 rachel\_mypark 420  
## 382 parishilton 421  
## 383 jhope\_bighitentertainment 422  
## 384 evcenf 423  
## 385 iynemliarasbulut 424  
## 386 yejinhand 425  
## 387 jin\_bighitentertainment 426  
## 388 thibautcourtois 427  
## 389 kun11xd 428  
## 390 sonamkapoor 429  
## 391 \_shotaroo\_ 430  
## 392 raphaelvarane 431  
## 393 pugachevmark 432  
## 394 shehnaazgill 433  
## 395 thenewclassic 434  
## 396 vanessahudgens 435  
## 397 mariabecerra 436  
## 398 jennaortega 437  
## 399 aron.piper 438  
## 400 \_seorina 439  
## 401 teddysphotos 440  
## 402 larissamanoela 441  
## 403 paulwesley 442  
## 404 parineetichopra 444  
## 405 romeosantos 445  
## 406 duki 446  
## 407 conangray 447  
## 408 jessnolimit 448  
## 409 chiaraferragni 450  
## 410 nadin\_serovski 451  
## 411 adamweitsman 452  
## 412 anupamaparameswaran96 453  
## 413 superstar\_dewasi99 454  
## 414 offsetyrn 455  
## 415 angeldimariajm 456  
## 416 juanpazurita 457  
## 417 antogriezmann 458  
## 418 jungkook\_bighitentertainment 459  
## 419 ana\_d\_armas 460  
## 420 dkharbour 461  
## 421 aboflah 463  
## 422 polo.capalot 464  
## 423 zefelipecantor 465  
## 424 yuyacst 466  
## 425 fuji\_an 467  
## 426 anahi 468  
## 427 kingbach 469  
## 428 yoona\_\_lim 470  
## 429 gianlucavacchi 471  
## 430 xavi 472  
## 431 anjimaxuofficially 473  
## 432 khabib\_nurmagomedov 474  
## 433 jimmyfallon 475  
## 434 gusttavolima 476  
## 435 julesleblanc 477  
## 436 ananyapanday 478  
## 437 nickyjam 479  
## 438 travisbarker 480  
## 439 nikefootball 481  
## 440 thehughjackman 483  
## 441 c.syresmith 484  
## 442 itsmarziapie 485  
## 443 jailyneojeda 486  
## 444 gioewbank 488  
## 445 indiancricketteam 489  
## 446 yugyeom 490  
## 447 deiveleonardo 491  
## 448 urvashirautela 492  
## 449 aliiiiiiiikarimi8 493  
## 450 fabriziorom 494  
## 451 sanchooo10 495  
## 452 joeyking 496  
## 453 nianaguerrero 497  
## 454 hshq 498  
## 455 lacasadepapel 499  
## 456 fcbayern 500  
## 457 vousmevoyez 502  
## 458 pefabiodemelo 503  
## 459 donya 505  
## 460 sav.labrant 506  
## 461 abdevilliers17 507  
## 462 arishfakhan138 508  
## 463 liamhemsworth 509  
## 464 iscoalarcon 510  
## 465 lucasranngel 512  
## 466 dear.zia 513  
## 467 hakkiakdenizz 514  
## 468 dra.deolanebezerra 515  
## 469 jokowi 516  
## 470 nusr\_et 517  
## 471 fortnite 518  
## 472 loud\_victor 519  
## 473 cvillaloboss 520  
## 474 dylansprouse 521  
## 475 melissamelmaia 522  
## 476 sofiaalcastro 523  
## 477 litkillah 524  
## 478 21savage 525  
## 479 amitabhbachchan 526  
## 480 maya\_hawke 527  
## 481 tatawerneck 528  
## 482 viihtube 529  
## 483 hm\_son7 530  
## 484 davido 531  
## 485 leonardodicaprio 532  
## 486 bernardokath 533  
## 487 chloegmoretz 534  
## 488 wizkidayo 535  
## 489 melo 536  
## 490 gessicakayane 538  
## 491 andreavaldirisos 539  
## 492 joaogomescantor 540  
## 493 quavohuncho 541  
## 494 travisbarker 542  
## 495 suga\_bighitentertainment 544  
## 496 netflixbrasil 546  
## 497 ridwankamil 547  
## 498 beautifuldestinations 548  
## 499 angelinajolie 549  
## 500 corinnakopf 550  
## 501 angelinajolie 551  
## 502 asabopp 552  
## 503 naileadevora 553  
## 504 lizakoshy 554  
## 505 marimaria 555  
## 506 ronaldo 556  
## 507 gisele 557  
## 508 liverpoolfc 558  
## 509 nehasharmaofficial 559  
## 510 marcusrashford 560  
## 511 golfarahani 561  
## 512 fuckjerry 562  
## 513 nazriyafahadh 563  
## 514 kyrieirving 564  
## 515 xsqueezie 565  
## 516 actorsuriya 566  
## 517 easportsfifa 567  
## 518 nessabarrett 568  
## 519 trentarnold66 569  
## 520 madisonbaileybabe 570  
## 521 jackharlow 571  
## 522 victoriajustice 572  
## 523 amauryguichon 573  
## 524 phoebejtonkin 574  
## 525 vanessamorgan 575  
## 526 smriti\_mandhana 576  
## 527 shreyaghoshal 577  
## 528 achrafhakimi 578  
## 529 aleoliveiracm 579  
## 530 xuminghao\_o 580  
## 531 nita\_shilimkar 581  
## 532 jeromepolin 582  
## 533 aishwaryaraibachchan\_arb 584  
## 534 emiliamernes 585  
## 535 markiplier 587  
## 536 jairmessiasbolsonaro 588  
## 537 loganpaul 589  
## 538 klaythompson 590  
## 539 malutrevejo 591  
## 540 virgilvandijk 592  
## 541 frenkiedejong 593  
## 542 karelyruiz 594  
## 543 ciara 595  
## 544 avani 598  
## 545 jensenackles 599  
## 546 jaybnow.hr 600  
## 547 jensenackles 601  
## 548 jaybnow.hr 602  
## 549 missasinfonia 603  
## 550 \_\_youngbae\_\_ 605  
## 551 zoeisabellakravitz 606  
## 552 premierleague 607  
## 553 catherinemcbroom 608  
## 554 nehasharmaofficial 609  
## 555 ridwankamil 610  
## 556 kit.connor 611  
## 557 toni.kr8s 612  
## 558 memezar 613  
## 559 dew\_jsu 614  
## 560 amadorat 615  
## 561 urstrulymahesh 616  
## 562 xuminghao\_o 617  
## 563 theslumpgod 618  
## 564 tiffanyyoungofficial 619  
## 565 juventus 620  
## 566 angeliqueboyer 622  
## 567 pozevidalouca 623  
## 568 narins\_beauty 624  
## 569 bhadbhabie 625  
## 570 sushitrash 627  
## 571 djsnake 628  
## 572 kareenakapoorkhan 629  
## 573 dindahw 630  
## 574 aslisona 632  
## 575 f1 633  
## 576 davidalaba 634  
## 577 haifawehbe 635  
## 578 zo 636  
## 579 felipeneto 637  
## 580 jaspritb1 638  
## 581 maudeapatow 639  
## 582 taylor\_hill 640  
## 583 regejean 641  
## 584 anupamaparameswaran96 642  
## 585 vikkialchester 643  
## 586 simonettalein 644  
## 587 troyesivan 645  
## 588 alvxaro 646  
## 589 paulwalker 647  
## 590 amandacerny 648  
## 591 yamigautam 649  
## 592 candiceking 650  
## 593 snoopdogg 651  
## 594 thiago6 652  
## 595 toni.kr8s 653  
## 596 egorkreed 654  
## 597 amybethmcnulty 655  
## 598 charles\_leclerc 656  
## 599 avengers 657  
## 600 dbook 658  
## 601 l7nnon 659  
## 602 faz3 660  
## 603 kentooyamazaki 661  
## 604 alishalehmann7 662  
## 605 yamigautam 663  
## 606 machinegunkelly 664  
## 607 davikah 665  
## 608 blythe 666  
## 609 kingryan 667  
## 610 sthefanematos 668  
## 611 \_agentgirl\_ 669  
## 612 riyadmahrez26.7 670  
## 613 ler\_chek 671  
## 614 arthuraguiar 672  
## 615 harshbeniwal 673  
## 616 youngdae0302 674  
## 617 casemiro 676  
## 618 jojotodynho 677  
## 619 dylanminnette 680  
## 620 djsnake 681  
## 621 aliandooo 682  
## 622 mclomaofficial 683  
## 623 pokimanelol 685  
## 624 emmaroberts 686  
## 625 lucyhale 687  
## 626 stebinben 688  
## 627 juki\_lop 689  
## 628 alfinetei 690  
## 629 centralcee 691  
## 630 syifahadjureal 692  
## 631 d\_degeaofficial 693  
## 632 elmarianaa 694  
## 633 calumhood 695  
## 634 willyrex 697  
## 635 liltjay 698  
## 636 floydmayweather 699  
## 637 onwardwanna 701  
## 638 milad\_khahhh 702  
## 639 angela\_aguilar\_ 703  
## 640 kaliuchis 704  
## 641 joaoguilherme 705  
## 642 harshbeniwal 706  
## 643 salmahayek 707  
## 644 rezagolzar 708  
## 645 acunilicali 709  
## 646 lacikaysomers 710  
## 647 karna.val 711  
## 648 arsenal 712  
## 649 violets.tv 716  
## 650 tohi 717  
## 651 rodridepaul 718  
## 652 maneskinofficial 719  
## 653 wanda\_nara 720  
## 654 perspolis 721  
## 655 miamalkova 723  
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## 370 Cinema & Actors/actressesComics & sketches 37.4M  
## 371 Sports with a ball 17.9M  
## 372 Cinema & Actors/actresses 33.7M  
## 373 Shows 5.8M  
## 374 Sports with a ball 16.2M  
## 375 Beauty 11.6M  
## 376 Lifestyle 10.7M  
## 377 Cinema & Actors/actresses 15.3M  
## 378 Cinema & Actors/actresses 21.6M  
## 379 Music 32.8M  
## 380 Lifestyle 6.5M  
## 381 Cinema & Actors/actresses 10.2M  
## 382 Modeling 19.6M  
## 383 Lifestyle 7.9M  
## 384 LifestyleBeauty 13.2M  
## 385 Cinema & Actors/actressesLifestyle 10.3M  
## 386 Cinema & Actors/actresses 6.9M  
## 387 Lifestyle 8.2M  
## 388 Sports with a ball 10.7M  
## 389 Lifestyle 6.7M  
## 390 FashionModeling 33.1M  
## 391 LifestyleMusic 5.4M  
## 392 Sports with a ball 19.1M  
## 393 Cars & MotorbikesLuxury 14.1M  
## 394 Cinema & Actors/actressesMusic 11.6M  
## 395 Music 16.4M  
## 396 Cinema & Actors/actresses 46.4M  
## 397 Music 9.8M  
## 398 Cinema & Actors/actressesLifestyle 8.2M  
## 399 MusicLifestyle 13.9M  
## 400 LifestyleCinema & Actors/actresses 6M  
## 401 Music 39.5M  
## 402 Cinema & Actors/actresses 46.1M  
## 403 Cinema & Actors/actresses 12.3M  
## 404 Cinema & Actors/actresses 37M  
## 405 Music 19.2M  
## 406 Music 10.1M  
## 407 Music 6.4M  
## 408 Shows 7.3M  
## 409 Beauty 27.5M  
## 410 FamilyLifestyle 9.4M  
## 411 Business & Careers 17.5M  
## 412 Cinema & Actors/actresses 12.2M  
## 413 MusicCinema & Actors/actresses 12.6M  
## 414 Music 19.9M  
## 415 Sports with a ball 17.7M  
## 416 Cinema & Actors/actresses 29.8M  
## 417 Sports with a ball 36.4M  
## 418 Management & MarketingMusic 9.5M  
## 419 Cinema & Actors/actressesLifestyle 7.1M  
## 420 Cinema & Actors/actresses 8.5M  
## 421 Humor & Fun & Happiness 7.4M  
## 422 MusicLifestyle 10.5M  
## 423 Music 24.6M  
## 424 Modeling 17.2M  
## 425 LifestyleFamily 11.8M  
## 426 MusicModeling 9.8M  
## 427 MusicArt/ArtistsCinema & Actors/actresses 22.7M  
## 428 Cinema & Actors/actresses 13.5M  
## 429 Lifestyle 22.4M  
## 430 Sports with a ball 9M  
## 431 Lifestyle 11.5M  
## 432 Fitness & Gym 33.5M  
## 433 ShowsHumor & Fun & Happiness 22.4M  
## 434 Music 43.8M  
## 435 MusicShows 9.7M  
## 436 Cinema & Actors/actresses 23M  
## 437 Music 43.4M  
## 438 Lifestyle 7.6M  
## 439 Sports with a ballClothing & Outfits 45.2M  
## 440 Cinema & Actors/actresses 30.5M  
## 441 Cinema & Actors/actressesLifestyle 19.1M  
## 442 BeautyLifestyle 8.3M  
## 443 ModelingLifestyle 14.2M  
## 444 Cinema & Actors/actressesModeling 28.4M  
## 445 Sports with a ball 24.6M  
## 446 MusicArt/ArtistsCinema & Actors/actresses 11.4M  
## 447 Literature & JournalismTrainers & Coaches 11.7M  
## 448 Cinema & Actors/actresses 53M  
## 449 Sports with a ball 9.4M  
## 450 Literature & JournalismShows 8.6M  
## 451 Sports with a ball 8.6M  
## 452 MusicCinema & Actors/actressesModeling 19M  
## 453 MusicKids & Toys 14.2M  
## 454 MusicCinema & Actors/actressesFashion 6.3M  
## 455 ShowsCinema & Actors/actresses 12.8M  
## 456 Sports with a ball 33.3M  
## 457 MusicCinema & Actors/actresses 10.3M  
## 458 Lifestyle 25.7M  
## 459 Fashion 15.2M  
## 460 FamilyLifestyleShows 7.1M  
## 461 Sports with a ballLifestyle 18.4M  
## 462 Cinema & Actors/actresses 29.3M  
## 463 Cinema & Actors/actresses 13.1M  
## 464 Sports with a ball 24.9M  
## 465 Lifestyle 19.8M  
## 466 Lifestyle 3.7M  
## 467 Business & Careers 23.5M  
## 468 Lifestyle 14.4M  
## 469 Finance & Economics 47.4M  
## 470 Food & Cooking 46.9M  
## 471 Computers & Gadgets 25.9M  
## 472 LifestyleSports with a ball 10.7M  
## 473 ShowsCinema & Actors/actresses 20.1M  
## 474 Cinema & Actors/actresses 9.2M  
## 475 Music 12.9M  
## 476 ShowsCinema & Actors/actressesLifestyle 8.8M  
## 477 Music 7.9M  
## 478 Music 13.5M  
## 479 Cinema & Actors/actresses 30.7M  
## 480 Music 7.3M  
## 481 Cinema & Actors/actressesFamily 53.6M  
## 482 Cinema & Actors/actresses 23.5M  
## 483 Sports with a ball 7.4M  
## 484 Music 24.6M  
## 485 Cinema & Actors/actresses 54.2M  
## 486 BeautyCinema & Actors/actressesFashion 17.3M  
## 487 Cinema & Actors/actresses 21.1M  
## 488 Music 14.9M  
## 489 Sports with a ball 9M  
## 490 ShowsHumor & Fun & Happiness 20M  
## 491 LifestyleBeauty 8.6M  
## 492 FamilyMusic 12.8M  
## 493 Music 21.4M  
## 494 Lifestyle 7.6M  
## 495 Music 7.6M  
## 496 ShowsCinema & Actors/actresses 31.8M  
## 497 Literature & JournalismBusiness & CareersFinance & Economics 18.4M  
## 498 PhotographyTravel 24.7M  
## 499 Lifestyle 13.2M  
## 500 Beauty 6.7M  
## 501 Family 13.2M  
## 502 Cinema & Actors/actresses 5.8M  
## 503 Shows 5.2M  
## 504 Cinema & Actors/actresses 20.1M  
## 505 Beauty 20.1M  
## 506 Sports with a ball 23M  
## 507 ModelingFashionLifestyle 19.4M  
## 508 Sports with a ball 39.5M  
## 509 Cinema & Actors/actresses 14.6M  
## 510 Sports with a ball 12.8M  
## 511 Cinema & Actors/actresses 13.4M  
## 512 Humor & Fun & Happiness 16.8M  
## 513 Lifestyle 6.1M  
## 514 Sports with a ball 16.9M  
## 515 MusicLifestyle 7.9M  
## 516 Cinema & Actors/actresses 4.9M  
## 517 Sports with a ball 26.7M  
## 518 LifestyleMusic 7M  
## 519 Sports with a ball 7.6M  
## 520 Lifestyle 6.7M  
## 521 LifestyleMusic 6.7M  
## 522 MusicCinema & Actors/actressesModeling 22.7M  
## 523 Food & Cooking 9M  
## 524 BeautyCinema & Actors/actressesModeling 8.4M  
## 525 MusicCinema & Actors/actresses 9.5M  
## 526 Sports with a ball 6.2M  
## 527 Music 24.4M  
## 528 Sports with a ball 9.9M  
## 529 Humor & Fun & Happiness 8.4M  
## 530 Music 4.9M  
## 531 FashionModeling 11.3M  
## 532 EducationHumor & Fun & Happiness 6.9M  
## 533 Cinema & Actors/actresses 10.4M  
## 534 Music 6M  
## 535 Shows 10.4M  
## 536 Finance & EconomicsBusiness & Careers 20.2M  
## 537 Fitness & Gym 23.3M  
## 538 Sports with a ballLifestyle 12.9M  
## 539 Music 11.6M  
## 540 Sports with a ball 12.3M  
## 541 Sports with a ball 10.6M  
## 542 Lifestyle 6.4M  
## 543 MusicModelingArt/Artists 32.3M  
## 544 BeautyLifestyle 18.9M  
## 545 Cinema & Actors/actresses 9.6M  
## 546 Music 6.9M  
## 547 Cinema & Actors/actresses 9.6M  
## 548 Music 6.9M  
## 549 Cinema & Actors/actresses 5.4M  
## 550 Music 13.4M  
## 551 Cinema & Actors/actresses 8.5M  
## 552 Sports with a ball 57.9M  
## 553 Family 7.4M  
## 554 Cinema & Actors/actresses 14.6M  
## 555 Literature & JournalismBusiness & CareersFinance & Economics 18.3M  
## 556 Cinema & Actors/actresses 4.3M  
## 557 Sports with a ball 34.2M  
## 558 Cinema & Actors/actresses 23.4M  
## 559 Cinema & Actors/actresses 6.1M  
## 560 FashionLifestyleBeauty 8.2M  
## 561 Cinema & Actors/actresses 8.7M  
## 562 Music 4.8M  
## 563 Music 5.4M  
## 564 ModelingFashion 12.3M  
## 565 Sports with a ball 54M  
## 566 ShowsCinema & Actors/actresses 14.2M  
## 567 LifestylePhotography 7M  
## 568 Lifestyle 9M  
## 569 Music 16.4M  
## 570 Music 6.3M  
## 571 Music 9.5M  
## 572 FamilyCinema & Actors/actresses 9.4M  
## 573 Cinema & Actors/actresses 14.5M  
## 574 Cinema & Actors/actressesLifestyle 23M  
## 575 Racing Sports 19.8M  
## 576 Sports with a ball 10.1M  
## 577 Music 10.1M  
## 578 Sports with a ball 14.2M  
## 579 Lifestyle 16M  
## 580 Lifestyle 9.8M  
## 581 LifestyleCinema & Actors/actresses 4.9M  
## 582 Art/ArtistsFashionModeling 19.9M  
## 583 Cinema & Actors/actressesMusic 6.3M  
## 584 Cinema & Actors/actresses 12.2M  
## 585 Music 11M  
## 586 BeautyCinema & Actors/actressesModeling 11.5M  
## 587 Art/ArtistsFashionMusic 13.2M  
## 588 Lifestyle 9.7M  
## 589 Cinema & Actors/actresses 15M  
## 590 Humor & Fun & Happiness 24M  
## 591 Cinema & Actors/actresses 16M  
## 592 FamilyLifestyle 9.9M  
## 593 LifestyleMusic 74.6M  
## 594 Sports with a ball 9.6M  
## 595 Sports with a ball 34.3M  
## 596 Music 14.7M  
## 597 LifestyleCinema & Actors/actresses 7.3M  
## 598 Racing Sports 8M  
## 599 Cinema & Actors/actresses 13.5M  
## 600 Sports with a ball 5.4M  
## 601 LifestyleArt/Artists 8.1M  
## 602 Lifestyle 14.4M  
## 603 Cinema & Actors/actresses 5M  
## 604 Sports with a ball 7.8M  
## 605 Cinema & Actors/actresses 16M  
## 606 Music 9.7M  
## 607 Modeling 16.9M  
## 608 Cinema & Actors/actressesModelingLifestyle 13.5M  
## 609 Fitness & Gym 8.9M  
## 610 Lifestyle 9.9M  
## 611 Shows 18.6M  
## 612 Sports with a ball 9.1M  
## 613 LifestyleBeauty 10.4M  
## 614 MusicCinema & Actors/actresses 13.9M  
## 615 Humor & Fun & HappinessShowsCinema & Actors/actresses 5.6M  
## 616 Music 4.4M  
## 617 Sports with a ball 15.9M  
## 618 Music 22.5M  
## 619 MusicCinema & Actors/actresses 7.4M  
## 620 Music 9.6M  
## 621 MusicCinema & Actors/actresses 16.7M  
## 622 Music 8.1M  
## 623 LifestyleShowsComputers & Gadgets 6.1M  
## 624 Cinema & Actors/actresses 18.1M  
## 625 Cinema & Actors/actresses 24.5M  
## 626 MusicShows 10.6M  
## 627 ShowsFamily 9.4M  
## 628 Humor & Fun & Happiness 21.7M  
## 629 LifestyleMusicSports with a ball 3.7M  
## 630 Modeling 15.4M  
## 631 Sports with a ball 13.5M  
## 632 Humor & Fun & Happiness 3.8M  
## 633 Music 7M  
## 634 Shows 8.7M  
## 635 LifestyleMusic 7.4M  
## 636 Fitness & Gym 28.4M  
## 637 LifestyleCinema & Actors/actresses 5.6M  
## 638 Lifestyle 6.5M  
## 639 Lifestyle 8.7M  
## 640 Music 3.9M  
## 641 MusicCinema & Actors/actressesLifestyle 16.1M  
## 642 Humor & Fun & HappinessShowsCinema & Actors/actresses 5.6M  
## 643 Cinema & Actors/actresses 21.5M  
## 644 Cinema & Actors/actresses 12.2M  
## 645 Cinema & Actors/actresses 13.7M  
## 646 MusicModelingArt/Artists 12.2M  
## 647 Lifestyle 7.3M  
## 648 Sports with a ball 22.2M  
## 649 Adult content 13.9M  
## 650 Lifestyle 12M  
## 651 Sports with a ball 4.8M  
## 652 Lifestyle 6.1M  
## 653 Lifestyle 13.6M  
## 654 Sports with a ball 8.1M  
## 655 Cinema & Actors/actresses 11M  
## 656 Sports with a ball 69M  
## 657 Lifestyle 14.6M  
## 658 Cinema & Actors/actresses 9.3M  
## 659 LifestyleModeling 8.7M  
## 660 Cinema & Actors/actresses 13.3M  
## 661 Lifestyle 7.3M  
## 662 Lifestyle 4.2M  
## 663 Sports with a ball 8.4M  
## 664 Cinema & Actors/actresses 9.6M  
## 665 LifestyleArt/Artists 11.7M  
## 666 Art/Artists 14.9M  
## 667 Racing Sports 19.9M  
## 668 Lifestyle 11.1M  
## 669 Lifestyle 11.6M  
## 670 MusicLifestyle 10.8M  
## 671 Cinema & Actors/actresses 10.6M  
## 672 Adult content 11.9M  
## 673 MusicCinema & Actors/actresses 17.2M  
## 674 Business & Careers 13.6M  
## 675 Music 9.4M  
## 676 Sports with a ballLifestyleKids & Toys 15.6M  
## 677 Music 16M  
## 678 Fitness & Gym 9.1M  
## 679 Cinema & Actors/actresses 13.5M  
## 680 Lifestyle 7.7M  
## 681 MusicCinema & Actors/actressesFashion 11.4M  
## 682 Sports with a ball 15.6M  
## 683 Lifestyle 6.3M  
## 684 Cinema & Actors/actresses 12.2M  
## 685 ShowsMusic 5.2M  
## 686 MusicCinema & Actors/actresses 22.7M  
## 687 ModelingLifestyle 10M  
## 688 Cinema & Actors/actressesModeling 13.9M  
## 689 Fitness & Gym 13.4M  
## 690 Adult content 5.4M  
## 691 ShowsCinema & Actors/actressesModeling 10.6M  
## 692 ModelingMusic 7M  
## 693 Lifestyle 4.3M  
## 694 MusicArt/Artists 29.7M  
## 695 Lifestyle 9.5M  
## 696 Beauty 7.7M  
## 697 Sports with a ball 39.7M  
## 698 ScienceMachinery & Technologies 15M  
## 699 LifestyleFamily 27.3M  
## 700 Humor & Fun & Happiness 18.1M  
## 701 Music 5.1M  
## 702 Photography 1.6M  
## 703 Sports with a ballLiterature & Journalism 17.4M  
## 704 Sports with a ball 8.7M  
## 705 Cinema & Actors/actressesMusic 3.1M  
## 706 Humor & Fun & Happiness 20.9M  
## 707 Music 9.2M  
## 708 Sports with a ball 12.5M  
## 709 Art/Artists 17M  
## 710 Machinery & TechnologiesComputers & Gadgets 13.5M  
## 711 Sports with a ball 5M  
## 712 Music 7.3M  
## 713 Sports with a ball 18.7M  
## 714 Sports with a ball 31.5M  
## 715 Shows 6.9M  
## 716 Shows 8.4M  
## 717 Music 5.4M  
## 718 Sports with a ball 12.4M  
## 719 Fitness & Gym 6.7M  
## 720 Cinema & Actors/actresses 18.7M  
## 721 Music 7.3M  
## 722 Cinema & Actors/actressesShows 30.4M  
## 723 Lifestyle 7.5M  
## 724 LifestyleBeauty 8M  
## 725 Sports with a ball 17.5M  
## 726 Cinema & Actors/actresses 7.4M  
## 727 Lifestyle 6.9M  
## 728 Finance & EconomicsBusiness & CareersFamily 35.4M  
## 729 Cinema & Actors/actresses 4.4M  
## 730 Cinema & Actors/actresses 3.8M  
## 731 Sports with a ball 11.5M  
## 732 LifestyleCinema & Actors/actressesModeling 8.7M  
## 733 Beauty 6.1M  
## 734 LifestyleModelingFashion 6.8M  
## 735 Music 39.6M  
## 736 Music 7.6M  
## 737 Modeling 18.3M  
## 738 Sports with a ball 9.2M  
## 739 Sports with a ball 14.5M  
## 740 Music 15.2M  
## 741 Music 8.8M  
## 742 ModelingLifestyle 7.1M  
## 743 Fitness & Gym 13.4M  
## 744 Cinema & Actors/actressesModelingFashion 11.8M  
## 745 Lifestyle 9.1M  
## 746 Beauty 26.6M  
## 747 Cinema & Actors/actressesHumor & Fun & HappinessModeling 9.9M  
## 748 Lifestyle 10.7M  
## 749 Modeling 18.8M  
## 750 Music 4.1M  
## 751 Lifestyle 6M  
## 752 Beauty 8.1M  
## 753 Cinema & Actors/actresses 4.5M  
## 754 Cinema & Actors/actresses 11.7M  
## 755 ShowsFamily 18.4M  
## 756 Cinema & Actors/actresses 20.9M  
## 757 Shows 10.3M  
## 758 Lifestyle 10M  
## 759 MusicCinema & Actors/actressesLifestyle 9.9M  
## 760 BeautyModelingAdult content 9M  
## 761 Sports with a ball 14.1M  
## 762 Adult content 12.3M  
## 763 Sports with a ball 22.2M  
## 764 Sports with a ball 14.5M  
## 765 ShowsCinema & Actors/actresses 123.7M  
## 766 LifestyleSports with a ball 7.4M  
## 767 Music 9.6M  
## 768 Music 27.4M  
## 769 LifestyleModelingCinema & Actors/actresses 24.3M  
## 770 LifestyleMusic 6M  
## 771 Family 7M  
## 772 Music 9.6M  
## 773 Music 27.4M  
## 774 LifestyleModelingCinema & Actors/actresses 24.3M  
## 775 LifestyleMusic 6M  
## 776 Family 7M  
## 777 Lifestyle 6.9M  
## 778 Sports with a ball 34.8M  
## 779 Music 15.9M  
## 780 Lifestyle 6.8M  
## 781 Shows 9.8M  
## 782 Sports with a ball 9.6M  
## 783 Music 15.5M  
## 784 Fitness & Gym 19M  
## 785 Cinema & Actors/actresses 14.4M  
## 786 Shows 7.3M  
## 787 LifestyleSports with a ball 7.3M  
## 788 LifestyleCinema & Actors/actresses 3.2M  
## 789 Cinema & Actors/actressesLifestyle 25.3M  
## 790 Sports with a ball 19.3M  
## 791 MusicLifestyle 12.7M  
## 792 Cinema & Actors/actressesMusic 8.5M  
## 793 Sports with a ball 4M  
## 794 MusicCinema & Actors/actresses 22M  
## 795 Sports with a ball 6.3M  
## 796 Music 4.1M  
## 797 Art/ArtistsCinema & Actors/actresses 16.2M  
## 798 Sports with a ball 9.9M  
## 799 Cinema & Actors/actresses 11.3M  
## 800 Music 7.5M  
## 801 Shows 11.9M  
## 802 Cinema & Actors/actressesModelingFashion 14.8M  
## 803 Music 11.7M  
## 804 Art/Artists 8M  
## 805 Business & CareersFinance & Economics 15.7M  
## 806 Lifestyle 3.7M  
## 807 Cinema & Actors/actresses 3.6M  
## 808 Music 21M  
## 809 LifestylePhotography 12.1M  
## 810 Cinema & Actors/actresses 12M  
## 811 LifestylePhotography 3.5M  
## 812 Sports with a ball 11.5M  
## 813 Music 4.4M  
## 814 Beauty 15.4M  
## 815 Shows 20.4M  
## 816 Computers & GadgetsMachinery & Technologies 12.8M  
## 817 Music 4.6M  
## 818 Music 9M  
## 819 Lifestyle 16.6M  
## 820 Cinema & Actors/actresses 6.1M  
## 821 Art/Artists 16.9M  
## 822 Lifestyle 3.7M  
## 823 Cinema & Actors/actressesModelingFashion 9.4M  
## 824 Lifestyle 9.4M  
## 825 FamilyLifestyleCinema & Actors/actresses 15.1M  
## 826 Art/Artists 3.5M  
## 827 Art/ArtistsCinema & Actors/actressesShows 21.3M  
## 828 MusicArt/Artists 9.3M  
## 829 Sports with a ball 13.5M  
## 830 Music 18.4M  
## 831 Lifestyle 4M  
## 832 Humor & Fun & Happiness 21.5M  
## 833 Music 16.6M  
## 834 Lifestyle 3.5M  
## 835 Lifestyle 3.7M  
## 836 Shows 7.5M  
## 837 Cinema & Actors/actressesLifestyle 16.3M  
## 838 LifestyleCinema & Actors/actresses 6.5M  
## 839 MusicArt/Artists 38.4M  
## 840 Animals 10.1M  
## 841 Cinema & Actors/actressesLifestyle 7.2M  
## 842 BeautyLifestyleFashion 7.1M  
## 843 Cinema & Actors/actressesLifestyle 8M  
## 844 Shows 9.2M  
## 845 Cinema & Actors/actresses 10.4M  
## 846 Cinema & Actors/actresses 8.8M  
## 847 Fitness & Gym 15.3M  
## 848 Fashion 6.6M  
## 849 Music 21.2M  
## 850 Cinema & Actors/actresses 26M  
## 851 Cinema & Actors/actresses 13.4M  
## 852 Cinema & Actors/actressesLifestyle 8.5M  
## 853 ModelingBeauty 10.7M  
## 854 LifestyleModeling 7M  
## 855 Cinema & Actors/actresses 13.7M  
## 856 Cinema & Actors/actressesModeling 9.8M  
## 857 Lifestyle 10.3M  
## 858 ShowsCinema & Actors/actresses 17.8M  
## 859 Family 21.5M  
## 860 Computers & GadgetsMachinery & Technologies 7.4M  
## 861 LifestyleFashion 5.1M  
## 862 Cinema & Actors/actresses 11.2M  
## 863 Sports with a ball 11.6M  
## 864 MusicFashion 14.6M  
## 865 BeautyCinema & Actors/actresses 8.1M  
## 866 Cinema & Actors/actresses 16.8M  
## 867 Racing Sports 13.9M  
## 868 Music 13.9M  
## 869 ShowsModeling 6.9M  
## 870 Modeling 19.7M  
## 871 LifestyleMusicArt/Artists 4.7M  
## 872 Lifestyle 13.6M  
## 873 Modeling 7.7M  
## 874 Humor & Fun & HappinessCinema & Actors/actresses 2.6M  
## 875 Computers & GadgetsPhotography 27.8M  
## 876 ShowsCinema & Actors/actresses 20.4M  
## 877 MusicShows 13.8M  
## 878 Cinema & Actors/actresses 17.2M  
## 879 BeautyHumor & Fun & HappinessCinema & Actors/actresses 3.5M  
## 880 Cinema & Actors/actressesFashion 15.8M  
## 881 Sports with a ball 13.6M  
## 882 Cinema & Actors/actresses 12.2M  
## 883 Music 3.1M  
## 884 LifestyleSports with a ball 24.8M  
## 885 Computers & GadgetsMachinery & Technologies 7.9M  
## 886 Shows 9.8M  
## 887 Cinema & Actors/actressesMusic 8.5M  
## 888 Adult content 7.3M  
## 889 Cinema & Actors/actresses 13.1M  
## 890 Cinema & Actors/actressesModeling 15M  
## 891 Literature & JournalismCinema & Actors/actresses 4.5M  
## 892 LifestyleFamily 6.3M  
## 893 Literature & JournalismFashion 39.6M  
## 894 FamilyCinema & Actors/actresses 4.8M  
## 895 Lifestyle 13.9M  
## 896 Humor & Fun & HappinessLifestyleBeauty 8.8M  
## 897 Music 10.1M  
## 898 Lifestyle 9M  
## 899 MusicArt/Artists 5M  
## 900 Music 7.3M  
## 901 Music 5M  
## 902 MusicCinema & Actors/actresses 10.9M  
## 903 Shows 7.4M  
## 904 LifestyleModeling 6.6M  
## 905 Modeling 5M  
## 906 Music 8M  
## 907 TravelCinema & Actors/actresses 4M  
## 908 Sports with a ball 15M  
## 909 Shows 13M  
## Audience.Country Authentic.Engagement Engagement.Avg.  
## 1 India 5.5M 6.6M  
## 2 Argentina 3.6M 4.8M  
## 3 United States 3M 4.9M  
## 4 United States 2.4M 3.4M  
## 5 United States 4.3M 5.8M  
## 6 United States 1.7M 2.5M  
## 7 Brazil 2.4M 3.2M  
## 8 United States 1.2M 1.9M  
## 9 United States 1.4M 1.9M  
## 10 Indonesia 6.3M 7.3M  
## 11 Indonesia 7M 8.3M  
## 12 India 2.1M 2.4M  
## 13 United States 5.7M 7M  
## 14 United States 949.9K 1.3M  
## 15 United States 1.1M 1.4M  
## 16 Indonesia 4.9M 5.6M  
## 17 United States 2.4M 3.1M  
## 18 Brazil 1.3M 1.8M  
## 19 India 2.8M 3.9M  
## 20 India 798.5K 1.2M  
## 21 Indonesia 4M 4.6M  
## 22 South Korea 6.9M 6.9M  
## 23 United States 3.9M 6M  
## 24 United States 744.2K 1.2M  
## 25 India 339.6K 434.3K  
## 26 Indonesia 3M 3.3M  
## 27 United States 1.1M 1.5M  
## 28 United States 739.8K 1.1M  
## 29 Mexico 3M 3.7M  
## 30 India 2.7M 4.3M  
## 31 Brazil 2.8M 3.5M  
## 32 United States 1.6M 2.4M  
## 33 United States 585.7K 743.2K  
## 34 United States 741.7K 1.3M  
## 35 India 373.2K 479.8K  
## 36 United States 2.2M 3.1M  
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## 66 Egypt 753.4K 1.1M  
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## 82 India 696K 855.2K  
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## 91 United States 514.9K 747.1K  
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## 603 Japan 636.6K 740K  
## 604 Brazil 248.2K 468.8K  
## 605 India 192.2K 223.5K  
## 606 United States 234K 376.2K  
## 607 Thailand 161.6K 210.2K  
## 608 Philippines 229.7K 261.5K  
## 609 United States 267.2K 403.6K  
## 610 Brazil 159.3K 365.6K  
## 611 Russia 164.4K 189.4K  
## 612 Algeria 306.8K 395.2K  
## 613 Russia 264K 342K  
## 614 Brazil 116.9K 270.8K  
## 615 India 488.4K 636K  
## 616 Indonesia 607.3K 801.6K  
## 617 Spain 146.6K 219.8K  
## 618 Brazil 96.5K 155.3K  
## 619 United States 292.1K 474.8K  
## 620 India 308.1K 366.2K  
## 621 Indonesia 134.8K 215.1K  
## 622 Brazil 253.1K 433.1K  
## 623 United States 430.6K 567K  
## 624 United States 126.7K 187.8K  
## 625 United States 106.3K 139.1K  
## 626 India 260.2K 318.9K  
## 627 Mexico 314.5K 365.5K  
## 628 Brazil 71.1K 160.9K  
## 629 United Kingdom 382.2K 936K  
## 630 Indonesia 177.6K 219.3K  
## 631 United Kingdom 176.1K 248.8K  
## 632 Mexico 607.3K 887.8K  
## 633 United States 305.9K 490.9K  
## 634 Spain 330.3K 392.1K  
## 635 United States 251.6K 464.5K  
## 636 United States 66.9K 118.1K  
## 637 United States 364.7K 608.3K  
## 638 Iran 379.9K 541K  
## 639 Mexico 316.9K 383.6K  
## 640 United States 491.7K 848.7K  
## 641 Brazil 105.8K 205.5K  
## 642 India 461.7K 601K  
## 643 United States 123.9K 152.5K  
## 644 Iran 190.9K 280.7K  
## 645 Turkey 198.6K 245.4K  
## 646 United States 158.6K 272.3K  
## 647 Russia 385.1K 449.2K  
## 648 United Kingdom 97.3K 146K  
## 649 Italy 171.7K 236K  
## 650 Iran 188.4K 275.2K  
## 651 Argentina 372.7K 675.7K  
## 652 Italy 374.4K 528.4K  
## 653 Argentina 165.2K 233.3K  
## 654 Iran 281.2K 400.1K  
## 655 India 211.9K 287.6K  
## 656 United States 29.9K 45.3K  
## 657 India 157.3K 214.4K  
## 658 Turkey 263.7K 341.7K  
## 659 India 286.4K 359.1K  
## 660 United States 202.7K 229.3K  
## 661 United States 271.1K 423.6K  
## 662 South Korea 600.1K 736.1K  
## 663 Italy 234.7K 366K  
## 664 Brazil 194K 318.5K  
## 665 United States 186.1K 256.9K  
## 666 United States 132.3K 201.4K  
## 667 Italy 119.9K 150.8K  
## 668 United States 184.6K 271.4K  
## 669 Iran 179.7K 262K  
## 670 India 188.5K 279.2K  
## 671 India 208.6K 282.5K  
## 672 Brazil 188.4K 252.2K  
## 673 India 148.1K 172.8K  
## 674 Russia 170.9K 220.9K  
## 675 Mexico 220.7K 324.8K  
## 676 United States 144.6K 189.3K  
## 677 Brazil 137.9K 186.4K  
## 678 Mexico 281.7K 330.8K  
## 679 Indonesia 127.7K 220K  
## 680 Indonesia 259.5K 389.5K  
## 681 Brazil 207.3K 257.7K  
## 682 Spain 151.1K 188.8K  
## 683 United States 192.2K 478.5K  
## 684 India 180.9K 239.4K  
## 685 Indonesia 502.2K 570.4K  
## 686 Egypt 105K 129.1K  
## 687 Brazil 238.5K 290.3K  
## 688 United States 139.1K 208.1K  
## 689 Mexico 154.5K 215.7K  
## 690 United States 391.8K 550.7K  
## 691 Brazil 204.3K 275.5K  
## 692 United States 328K 419.6K  
## 693 United States 232.1K 687.7K  
## 694 Argentina 70.6K 97.6K  
## 695 Colombia 213.2K 313K  
## 696 France 275K 378.6K  
## 697 Spain 49.4K 72.2K  
## 698 United States 157.9K 191.7K  
## 699 United States 68.8K 105.1K  
## 700 Brazil 84.2K 159.8K  
## 701 Argentina 249.9K 570.3K  
## 702 Senegal 919.9K 1.9M  
## 703 Italy 105.7K 164.1K  
## 704 Spain 217.8K 330.3K  
## 705 United States 0 918.6K  
## 706 Indonesia 80.8K 137.6K  
## 707 Indonesia 259.1K 310.4K  
## 708 United States 123K 227.9K  
## 709 United States 123K 166.8K  
## 710 Brazil 145.3K 211.9K  
## 711 United Kingdom 326.2K 571.5K  
## 712 United States 304.6K 390.7K  
## 713 Brazil 91K 148.4K  
## 714 Brazil 64.8K 88.1K  
## 715 United Arab Emirates 0 408.6K  
## 716 India 277.6K 342.8K  
## 717 Indonesia 408.9K 522.6K  
## 718 United States 137.9K 222.5K  
## 719 United States 344.9K 421.4K  
## 720 Brazil 94.5K 147.7K  
## 721 South Korea 320.1K 385.7K  
## 722 Brazil 55.8K 90.5K  
## 723 India 237.7K 373.9K  
## 724 United States 198.4K 350.5K  
## 725 Brazil 101.6K 156.8K  
## 726 Morocco 277K 375.3K  
## 727 United States 210.5K 404.2K  
## 728 United States 66.7K 77.5K  
## 729 India 489.7K 634.4K  
## 730 Italy 547.2K 730K  
## 731 Turkey 195.7K 236.4K  
## 732 Iran 252.6K 313.5K  
## 733 India 396.1K 491.8K  
## 734 United States 277.6K 406.4K  
## 735 Indonesia 51.4K 68K  
## 736 Philippines 323.2K 360.6K  
## 737 Brazil 83.8K 148.8K  
## 738 United States 180.6K 298.3K  
## 739 Spain 128.6K 185.5K  
## 740 United States 104.2K 177.1K  
## 741 Colombia 202.8K 314.7K  
## 742 United States 230.5K 383.3K  
## 743 Mexico 143.1K 198.8K  
## 744 Thailand 185.5K 226.5K  
## 745 Brazil 186.4K 300.5K  
## 746 Indonesia 80.2K 100.8K  
## 747 Japan 257.2K 273.9K  
## 748 Indonesia 193.9K 247.6K  
## 749 Russia 102.1K 140.8K  
## 750 Indonesia 540.2K 654.9K  
## 751 Indonesia 340.9K 449.4K  
## 752 Mexico 289.9K 331.6K  
## 753 Indonesia 452.2K 599.2K  
## 754 Spain 167.3K 225.4K  
## 755 Russia 116.7K 143.4K  
## 756 Brazil 100K 127.3K  
## 757 United States 173.7K 256K  
## 758 Brazil 76.9K 270.3K  
## 759 Brazil 172.6K 269.2K  
## 760 United States 193.5K 295.7K  
## 761 Chile 113K 186.3K  
## 762 United States 160.8K 214.2K  
## 763 United Kingdom 78.2K 117.7K  
## 764 Spain 116.5K 178.9K  
## 765 United States 20.6K 21.1K  
## 766 United States 218.9K 353.7K  
## 767 Indonesia 240.1K 269.6K  
## 768 Brazil 64.7K 95.8K  
## 769 India 87.3K 105.7K  
## 770 India 342.5K 433.6K  
## 771 Russia 303.5K 374.4K  
## 772 Indonesia 240.1K 269.6K  
## 773 Brazil 64.7K 95.8K  
## 774 India 87.3K 105.7K  
## 775 India 342.5K 433.6K  
## 776 Russia 303.5K 374.4K  
## 777 Kazakhstan 279.9K 370.6K  
## 778 Indonesia 48.9K 72.7K  
## 779 Brazil 95.9K 158.3K  
## 780 Brazil 147.9K 379.4K  
## 781 Russia 213.8K 262.4K  
## 782 Spain 205.3K 265.4K  
## 783 Mexico 113.6K 162.8K  
## 784 United States 102K 131.2K  
## 785 India 151.5K 172.8K  
## 786 Iran 277.1K 350.1K  
## 787 United States 212K 342.5K  
## 788 India 677K 777K  
## 789 Brazil 67.2K 97.8K  
## 790 United States 64.8K 128.4K  
## 791 United States 137.9K 193.2K  
## 792 India 246.4K 293.8K  
## 793 United Kingdom 414.4K 622.5K  
## 794 Brazil 81.1K 111.6K  
## 795 Spain 278.8K 395K  
## 796 Indonesia 501.5K 608.3K  
## 797 India 124.3K 150K  
## 798 Brazil 167K 252.5K  
## 799 United States 185.8K 214.4K  
## 800 Mexico 272.4K 328K  
## 801 Brazil 161.5K 202.8K  
## 802 Mexico 128.2K 163K  
## 803 Brazil 63.1K 205.3K  
## 804 United States 174.7K 309.2K  
## 805 Egypt 112.8K 152.6K  
## 806 Thailand 473.2K 646.4K  
## 807 Indonesia 542.9K 669.3K  
## 808 Indonesia 71.9K 113.6K  
## 809 United States 167.2K 197.8K  
## 810 Spain 150.1K 198K  
## 811 Mexico 459.2K 679.7K  
## 812 Turkey 171.7K 207.5K  
## 813 Japan 536.8K 559.8K  
## 814 Brazil 70.7K 154.4K  
## 815 Brazil 93.1K 117.4K  
## 816 United States 151.7K 185.4K  
## 817 United States 336.5K 518.9K  
## 818 Brazil 184.4K 262.5K  
## 819 United States 89.6K 139.8K  
## 820 India 338K 382.5K  
## 821 United States 100.2K 136.8K  
## 822 Thailand 481.5K 633.3K  
## 823 Turkey 194.8K 249.6K  
## 824 United States 158.2K 247.4K  
## 825 Brazil 113.6K 160.7K  
## 826 Russia 528.5K 676.7K  
## 827 United States 91.3K 108.3K  
## 828 United States 190.3K 249.1K  
## 829 Spain 111.7K 168.1K  
## 830 Italy 83.7K 125.6K  
## 831 Russia 520.5K 577.4K  
## 832 Brazil 54.6K 105.3K  
## 833 Brazil 98.2K 136.7K  
## 834 France 586.8K 662.4K  
## 835 Italy 417.9K 619.6K  
## 836 United States 144.5K 305.9K  
## 837 Iran 101.3K 139K  
## 838 Turkey 283.8K 349.3K  
## 839 India 41.3K 58.5K  
## 840 India 173.1K 222K  
## 841 Turkey 266.8K 316.1K  
## 842 Indonesia 264.1K 318.8K  
## 843 Brazil 226.8K 284.3K  
## 844 Brazil 75.3K 248K  
## 845 United States 152.6K 213.4K  
## 846 United States 196.6K 256.7K  
## 847 United States 76.8K 145K  
## 848 India 274K 338K  
## 849 United States 65.3K 105.9K  
## 850 India 74.1K 85.3K  
## 851 United States 130.5K 166.6K  
## 852 Turkey 220K 264.7K  
## 853 Indonesia 168.8K 206.1K  
## 854 India 252.4K 321.2K  
## 855 Turkey 134.3K 168.3K  
## 856 Italy 185.8K 230.9K  
## 857 Albania 147.5K 212.9K  
## 858 United States 102.8K 123.4K  
## 859 Indonesia 73.6K 101.4K  
## 860 Spain 247.3K 297.8K  
## 861 United States 310.9K 438.1K  
## 862 Brazil 119.2K 197.2K  
## 863 United States 109.8K 188.4K  
## 864 United States 102K 149.3K  
## 865 Indonesia 253.9K 273.9K  
## 866 Brazil 77.8K 129.2K  
## 867 Indonesia 119.3K 155.9K  
## 868 United States 109.3K 155.9K  
## 869 United States 225.8K 316.7K  
## 870 United States 82.5K 109.7K  
## 871 Brazil 399.6K 479.5K  
## 872 Indonesia 112.9K 159K  
## 873 United States 190.2K 283.9K  
## 874 India 675.1K 840.6K  
## 875 India 57.9K 77.3K  
## 876 India 92K 105.9K  
## 877 Turkey 133.2K 155.5K  
## 878 India 102.1K 125.3K  
## 879 India 527.9K 624.4K  
## 880 Egypt 100.5K 134.5K  
## 881 Brazil 104.7K 156.1K  
## 882 India 126.8K 173.7K  
## 883 United States 539.9K 692.2K  
## 884 United States 60.9K 85.5K  
## 885 United States 233.5K 271K  
## 886 Brazil 127.8K 218.9K  
## 887 India 211.6K 252.1K  
## 888 United States 214.2K 295.2K  
## 889 India 131.1K 160.2K  
## 890 Iraq 98.8K 140.4K  
## 891 Iran 365.3K 481.4K  
## 892 Germany 273.4K 337.5K  
## 893 United States 34.2K 52.5K  
## 894 United States 324.7K 439.5K  
## 895 United States 98.2K 148.2K  
## 896 India 191.5K 240.4K  
## 897 United States 147.4K 203.6K  
## 898 United States 176.7K 234.1K  
## 899 Japan 393.6K 422K  
## 900 Indonesia 238.2K 283.7K  
## 901 Philippines 337.9K 416.3K  
## 902 United States 149.9K 188.5K  
## 903 Indonesia 225.6K 279.5K  
## 904 Pakistan 267.4K 315.8K  
## 905 Philippines 357.5K 412.1K  
## 906 India 211.1K 261.8K  
## 907 Indonesia 434.2K 518.2K  
## 908 France 76.4K 135.5K  
## 909 Iraq 117.6K 157.6K

###PROBLEM1 Get the summary statistics (mean, median, mode, min, max, 1st quartile, 3rd quartile and standard deviation) for the dataset. Calculate these only for the numerical columns [Audience Country, Authentic Engagement and Engagement Average]. What can you determine from the summary statistics? How does your Instagram stats hold up with the top 1000 :P ?

###For audience country:

aud\_country <- data1$Audience.Country  
 summary(aud\_country)

## Length Class Mode   
## 909 character character

country\_table<-table(data1$Audience.Country)#to get a the table of country names and frequencies corresponding to it   
 sorted\_table<-country\_table[order(country\_table,decreasing=TRUE)] #to sort in decreasing order   
 print(sorted\_table)

##   
## United States India Brazil   
## 254 151 140   
## Indonesia Mexico Spain   
## 111 35 34   
## Russia Argentina Turkey   
## 24 23 18   
## United Kingdom Iran Italy   
## 17 16 16   
## South Korea Colombia Philippines   
## 11 8 7   
## France Thailand Egypt   
## 6 6 5   
## Germany Iraq Japan   
## 4 4 4   
## Morocco Nigeria United Arab Emirates   
## 2 2 2   
## Albania Algeria Chile   
## 1 1 1   
## China Kazakhstan Pakistan   
## 1 1 1   
## Poland Senegal Syria   
## 1 1 1

print(paste("total number of unique entries (countries) is : ",length(sorted\_table)))

## [1] "total number of unique entries (countries) is : 33"

print(paste("the max freq. country is : United States with freq of 254"))

## [1] "the max freq. country is : United States with freq of 254"

###For Authentic Engagement

sapply(df,class)

## Name Rank Category   
## "character" "numeric" "character"   
## Followers Audience Country Authentic Engagement   
## "character" "character" "character"   
## Engagement Avg.   
## "character"

a<- df[["Authentic Engagement"]]  
a <- ifelse(grepl('m', ignore.case = TRUE, a), as.numeric(gsub("[$M]", "", a)) \* 10^6,  
 as.numeric(gsub("[$K]", "", a)) \* 10^3)

## Warning in ifelse(grepl("m", ignore.case = TRUE, a), as.numeric(gsub("[$M]", :  
## NAs introduced by coercion  
  
## Warning in ifelse(grepl("m", ignore.case = TRUE, a), as.numeric(gsub("[$M]", :  
## NAs introduced by coercion

summary(a)

## Min. 1st Qu. Median Mean 3rd Qu. Max.   
## 0 169000 316050 566199 604275 13300000

getmode <- function(v) {  
 uniqv <- unique(v)  
 uniqv[which.max(tabulate(match(v, uniqv)))]  
}  
getmode(a)

## [1] 0

sd(a)

## [1] 995608.9

###For Engagement Average

b<-df[["Engagement Avg."]]  
b <- ifelse(grepl('m', ignore.case = TRUE, b), as.numeric(gsub("[$M]", "", b)) \* 10^6,  
 as.numeric(gsub("[$K]", "", b)) \* 10^3)

## Warning in ifelse(grepl("m", ignore.case = TRUE, b), as.numeric(gsub("[$M]", :  
## NAs introduced by coercion  
  
## Warning in ifelse(grepl("m", ignore.case = TRUE, b), as.numeric(gsub("[$M]", :  
## NAs introduced by coercion

summary(b)

## Min. 1st Qu. Median Mean 3rd Qu. Max.   
## 21100 252425 463300 772861 850125 13300000

getmode(b)

## [1] 1100000

sd(b)

## [1] 1117135

###PROBLEM2 What are the top 3 audience countries that follow most of the top 1000 instagrammers? Hint: Go back to bar graph created earlier. Use R to calculate the percentage of the top 1000 instagrammers that have the top 1 audience country.

t<-table(data1$Audience.Country)  
 sorted\_table<-t[order(t,decreasing=TRUE)]   
 print(sorted\_table)

##   
## United States India Brazil   
## 254 151 140   
## Indonesia Mexico Spain   
## 111 35 34   
## Russia Argentina Turkey   
## 24 23 18   
## United Kingdom Iran Italy   
## 17 16 16   
## South Korea Colombia Philippines   
## 11 8 7   
## France Thailand Egypt   
## 6 6 5   
## Germany Iraq Japan   
## 4 4 4   
## Morocco Nigeria United Arab Emirates   
## 2 2 2   
## Albania Algeria Chile   
## 1 1 1   
## China Kazakhstan Pakistan   
## 1 1 1   
## Poland Senegal Syria   
## 1 1 1

sorted\_table[1:3]

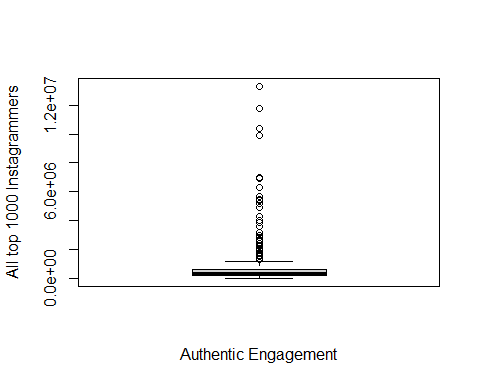
##   
## United States India Brazil   
## 254 151 140

freq\_values<-as.numeric(sorted\_table)  
 print(paste("percentage of top 1000 in 1st aud country is :",freq\_values[1]/length(data1$Audience.Country) \* 100))

## [1] "percentage of top 1000 in 1st aud country is : 27.9427942794279"

###PROBLEM3 Create a horizontal box plot using the column Authentic.Engagement. What inferences can you make from this box and whisker plot?

#as defined above--> a<- df[["Authentic Engagement"]]  
boxplot(a , xlab = "Authentic Engagement", border = "black",ylab = "All top 1000 Instagrammers")

 IN BOXPLOT: 1. Median ~ 0.3 million 2. 1st quarile ~ 0.2 million 3. 3rd quartile ~ 0.6 million 4. IQR ~ 0.4 million. 5. Outliers present beyond 1.25 million. 6. Most of the top 1000 instagrammers have an engagement between thousands to 1.25 million. Distribution is positively skewed as median is closer to lower quartile.

###PROBLEM 4 Create a histogram where the x-axis contains the Audience Country and y-axis contains the total follower count for accounts with that Audience Country. Which country is associated with the most amount of followers? Hint: Recall the concept of groupby() in Pandas. Try using the aggregate() function in R to achieve the same goal. What is the total for India and what rank does it fall compared to other countries?

#audcountry<-df[["Audience Country"]]  
followers<-df[["Followers"]]  
followers <- ifelse(grepl('m', ignore.case = TRUE, followers), as.numeric(gsub("[$M]", "", followers)) \* 10^6,  
 as.numeric(gsub("[$K]", "", followers)) \* 10^3)  
print(followers) #converted numeric values

## [1] 462900000 347200000 247600000 321400000 147000000 323600000 218200000  
## [8] 357000000 334900000 46300000 79900000 68200000 206900000 67600000  
## [15] 38100000 36500000 37400000 267400000 260400000 62100000 104300000  
## [22] 176200000 78600000 245900000 61000000 37400000 41400000 197800000  
## [29] 528400000 43000000 66000000 137300000 189000000 54500000 46200000  
## [36] 36000000 53200000 74900000 217500000 127400000 327300000 50600000  
## [43] 39000000 116600000 65600000 46300000 178200000 29200000 45800000  
## [50] 29400000 53200000 27000000 30100000 68200000 69400000 72400000  
## [57] 26600000 67200000 27100000 59300000 85100000 48100000 64400000  
## [64] 24700000 32900000 48900000 24200000 55100000 35200000 49000000  
## [71] 54600000 51900000 22200000 23000000 28500000 30200000 47700000  
## [78] 83800000 23300000 121800000 21600000 29000000 115100000 110000000  
## [85] 30000000 136300000 32300000 52100000 14400000 53200000 28900000  
## [92] 67800000 34500000 47700000 45900000 55900000 53900000 20000000  
## [99] 21900000 78600000 78600000 9600000 17000000 26100000 80200000  
## [106] 24100000 40700000 14300000 40400000 227600000 24600000 24200000  
## [113] 25400000 27800000 43300000 167200000 20400000 81700000 42000000  
## [120] 27100000 62600000 35400000 12100000 53100000 49700000 23400000  
## [127] 19000000 20900000 75600000 21900000 43500000 12600000 27000000  
## [134] 73400000 21300000 29500000 16800000 41600000 62700000 53000000  
## [141] 32300000 232200000 31800000 62200000 47800000 41200000 27400000  
## [148] 57200000 23600000 30700000 16000000 29100000 40300000 35300000  
## [155] 17000000 24400000 13600000 17100000 29000000 20700000 44100000  
## [162] 95700000 50800000 36200000 24400000 14100000 10800000 20600000  
## [169] 49800000 9800000 21200000 15900000 20700000 21300000 25800000  
## [176] 18900000 40700000 24500000 37000000 8500000 44500000 44700000  
## [183] 20500000 65500000 13000000 19100000 24300000 10700000 10300000  
## [190] 54700000 14400000 52300000 35900000 6600000 21400000 13500000  
## [197] 25700000 14600000 14000000 16600000 28800000 6900000 6900000  
## [204] 33100000 29400000 21700000 12300000 24700000 62900000 16100000  
## [211] 25500000 18500000 70400000 30100000 10900000 74500000 29400000  
## [218] 17700000 19800000 9000000 15500000 9100000 31300000 22100000  
## [225] 23100000 15100000 27200000 10000000 17900000 38000000 23500000  
## [232] 61200000 27900000 17400000 13800000 13800000 9400000 18300000  
## [239] 12900000 7600000 8700000 15900000 12100000 15200000 36000000  
## [246] 35400000 6300000 10200000 11100000 5600000 22300000 15000000  
## [253] 15300000 67400000 32300000 9300000 45800000 32800000 21200000  
## [260] 14900000 18700000 53100000 13700000 13600000 44000000 14100000  
## [267] 27300000 35100000 14200000 43200000 13100000 8000000 6600000  
## [274] 20500000 5800000 24400000 5700000 61200000 12500000 16500000  
## [281] 14600000 14900000 5500000 8200000 33800000 24300000 48900000  
## [288] 15500000 14700000 9800000 6900000 22600000 9000000 17000000  
## [295] 14300000 26800000 13000000 10300000 58600000 4800000 9400000  
## [302] 14200000 14400000 8400000 8300000 5900000 8200000 6500000  
## [309] 12000000 7300000 10500000 17900000 12800000 16900000 18400000  
## [316] 12900000 14100000 7300000 17300000 14100000 14800000 12500000  
## [323] 5300000 22900000 10000000 22400000 13700000 10900000 40100000  
## [330] 9900000 29500000 25400000 11600000 18000000 65400000 11000000  
## [337] 14200000 37400000 17200000 25700000 52800000 14000000 59000000  
## [344] 20200000 10100000 25000000 5800000 32000000 10200000 13400000  
## [351] 7800000 13100000 50300000 10200000 23900000 14100000 9000000  
## [358] 19500000 12200000 19900000 38900000 8500000 10700000 23900000  
## [365] 19400000 148800000 19900000 26500000 43100000 14100000 7600000  
## [372] 31800000 16000000 27700000 27500000 8100000 27000000 12500000  
## [379] 31300000 25000000 45800000 18700000 4900000 32900000 18100000  
## [386] 6900000 10000000 13900000 7300000 11600000 58200000 5100000  
## [393] 43000000 7900000 13200000 16800000 6200000 15300000 20700000  
## [400] 6300000 6200000 15300000 13300000 6300000 22100000 11600000  
## [407] 34800000 37400000 17900000 33700000 5800000 16200000 11600000  
## [414] 10700000 15300000 21600000 32800000 6500000 6400000 10200000  
## [421] 19600000 7900000 13200000 10300000 6900000 8200000 10700000  
## [428] 6700000 33100000 5400000 19100000 14100000 11600000 16400000  
## [435] 46400000 9800000 8200000 13900000 6000000 39500000 46100000  
## [442] 12300000 6900000 37000000 19200000 10100000 6400000 7300000  
## [449] 5300000 27500000 9400000 17500000 12200000 12600000 19900000  
## [456] 17700000 29800000 36400000 9500000 7100000 8500000 5600000  
## [463] 7400000 10500000 24600000 17200000 11800000 9800000 22700000  
## [470] 13500000 22400000 9000000 11500000 33500000 22400000 43800000  
## [477] 9700000 23000000 43400000 7600000 45200000 5900000 30500000  
## [484] 19100000 8300000 14200000 4900000 28400000 24600000 11400000  
## [491] 11700000 53000000 9400000 8600000 8600000 19000000 14200000  
## [498] 6300000 12800000 33300000 14300000 10300000 25700000 12300000  
## [505] 15200000 7100000 18400000 29300000 13100000 24900000 8800000  
## [512] 19800000 3700000 23500000 14400000 47400000 46900000 25900000  
## [519] 10700000 20100000 9200000 12900000 8800000 7900000 13500000  
## [526] 30700000 7300000 53600000 23500000 7400000 24600000 54200000  
## [533] 17300000 21100000 14900000 9000000 5800000 20000000 8600000  
## [540] 12800000 21400000 7600000 15100000 7600000 4700000 31800000  
## [547] 18400000 24700000 13200000 6700000 13200000 5800000 5200000  
## [554] 20100000 20100000 23000000 19400000 39500000 14600000 12800000  
## [561] 13400000 16800000 6100000 16900000 7900000 4900000 26700000  
## [568] 7000000 7600000 6700000 6700000 22700000 9000000 8400000  
## [575] 9500000 6200000 24400000 9900000 8400000 4900000 11300000  
## [582] 6900000 3900000 10400000 6000000 7600000 10400000 20200000  
## [589] 23300000 12900000 11600000 12300000 10600000 6400000 32300000  
## [596] 4200000 8600000 18900000 9600000 6900000 9600000 6900000  
## [603] 5400000 7900000 13400000 8500000 57900000 7400000 14600000  
## [610] 18300000 4300000 34200000 23400000 6100000 8200000 8700000  
## [617] 4800000 5400000 12300000 54000000 3900000 14200000 7000000  
## [624] 9000000 16400000 20000000 6300000 9500000 9400000 14500000  
## [631] 10600000 23000000 19800000 10100000 10100000 14200000 16000000  
## [638] 9800000 4900000 19900000 6300000 12200000 11000000 11500000  
## [645] 13200000 9700000 15000000 24000000 16000000 9900000 74600000  
## [652] 9600000 34300000 14700000 7300000 8000000 13500000 5400000  
## [659] 8100000 14400000 5000000 7800000 16000000 9700000 16900000  
## [666] 13500000 8900000 9900000 18600000 9100000 10400000 13900000  
## [673] 5600000 4400000 2500000 15900000 22500000 4200000 9000000  
## [680] 7400000 9600000 16700000 8100000 4500000 6100000 18100000  
## [687] 24500000 10600000 9400000 21700000 3700000 15400000 13500000  
## [694] 3800000 7000000 5900000 8700000 7400000 28400000 3000000  
## [701] 5600000 6500000 8700000 3900000 16100000 5600000 21500000  
## [708] 12200000 13700000 12200000 7300000 22200000 5700000 5900000  
## [715] 10200000 13900000 12000000 4800000 6100000 13600000 8100000  
## [722] 12400000 11000000 69000000 14600000 9300000 2900000 8700000  
## [729] 13300000 7300000 4200000 8400000 9600000 11700000 14900000  
## [736] 19900000 11100000 11600000 10800000 10600000 11900000 17200000  
## [743] 13600000 9400000 15600000 16000000 9100000 13500000 7700000  
## [750] 13000000 11400000 15600000 6300000 12200000 5200000 22700000  
## [757] 10000000 13900000 13400000 4100000 5400000 10600000 7000000  
## [764] 4300000 29700000 9500000 7700000 39700000 15000000 27300000  
## [771] 18100000 5100000 1600000 17400000 8700000 3100000 20900000  
## [778] 9200000 12500000 17000000 13500000 5000000 7300000 18700000  
## [785] 31500000 6900000 8400000 5400000 12400000 6700000 18700000  
## [792] 7300000 30400000 7500000 8000000 17500000 7400000 6900000  
## [799] 35400000 4400000 3800000 11500000 8700000 4600000 6100000  
## [806] 6800000 39600000 7600000 18300000 9200000 14500000 15200000  
## [813] 8800000 5100000 7100000 13400000 3500000 11800000 9100000  
## [820] 26600000 9900000 10700000 18800000 4100000 6000000 8100000  
## [827] 4500000 11700000 18400000 20900000 3000000 10300000 10000000  
## [834] 9900000 9000000 14100000 12300000 22200000 14500000 6100000  
## [841] 123700000 8100000 7400000 2500000 9600000 27400000 24300000  
## [848] 6000000 7000000 5500000 8100000 9600000 27400000 24300000  
## [855] 6000000 7000000 5500000 6900000 34800000 15900000 6800000  
## [862] 9800000 9600000 15500000 19000000 14400000 7300000 7300000  
## [869] 3200000 25300000 19300000 12700000 8500000 4000000 22000000  
## [876] 6300000 4100000 16200000 9900000 11300000 7500000 11900000  
## [883] 14800000 11700000 8000000 15700000 3700000 3600000 21000000  
## [890] 12100000 3000000 12000000 6500000 3500000 11500000 4400000  
## [897] 15400000 20400000 12800000 4600000 9000000 16600000 6100000  
## [904] 16900000 3700000 9400000 9400000 15100000 3500000 21300000  
## [911] 9300000 13500000 18400000 4000000 21500000 16600000 3500000  
## [918] 3700000 7500000 16300000 6500000 6800000 38400000 10100000  
## [925] 7200000 7100000 8000000 9200000 10400000 8800000 15300000  
## [932] 6600000 21200000 26000000 13400000 8500000 8100000 10700000  
## [939] 7000000 4000000 13700000 9800000 10300000 17800000 21500000  
## [946] 7400000 5100000 11200000 11600000 14600000 8100000 16800000  
## [953] 13900000 13900000 6900000 19700000 4700000 13600000 7700000  
## [960] 2600000 27800000 20400000 13800000 17200000 3500000 15800000  
## [967] 13600000 12200000 3100000 24800000 7900000 3200000 9800000  
## [974] 8500000 7300000 13100000 15000000 4500000 6300000 8200000  
## [981] 39600000 3000000 4800000 13900000 8800000 10100000 3400000  
## [988] 9000000 5000000 7300000 5000000 10900000 7400000 6600000  
## [995] 5000000 8000000 4000000 15000000 9800000 13000000

###Total followers of each country   
Foll<-aggregate(followers, by=list(audcountry=df[["Audience Country"]]), FUN=sum)  
print(Foll)

## audcountry x  
## 1 Albania 10300000  
## 2 Algeria 9100000  
## 3 Argentina 741800000  
## 4 Brazil 3663200000  
## 5 Chile 14100000  
## 6 China 28900000  
## 7 Colombia 170200000  
## 8 Egypt 125500000  
## 9 France 162400000  
## 10 Germany 108100000  
## 11 India 5684300000  
## 12 Indonesia 2140600000  
## 13 Iran 256100000  
## 14 Iraq 45500000  
## 15 Italy 296800000  
## 16 Japan 24300000  
## 17 Kazakhstan 6900000  
## 18 Mexico 777700000  
## 19 Morocco 17300000  
## 20 Nigeria 39500000  
## 21 Pakistan 6600000  
## 22 Philippines 79500000  
## 23 Poland 26800000  
## 24 Russia 387400000  
## 25 Senegal 1600000  
## 26 South Korea 178300000  
## 27 Spain 823300000  
## 28 Syria 9000000  
## 29 Thailand 60300000  
## 30 Turkey 313300000  
## 31 United Arab Emirates 21300000  
## 32 United Kingdom 319100000  
## 33 United States 9247800000

df[["Followers"]] <- followers  
#Ranking the Countries   
names(Foll$x)<- Foll$audcountry  
s <- sort(Foll$x, decreasing = TRUE)  
names(s)

## NULL

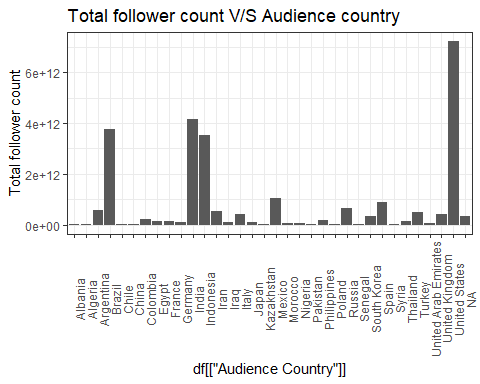
top5<-s[1:5]  
top5

## [1] 9247800000 5684300000 3663200000 2140600000 823300000

###Rank  
rank(s)

## [1] 33 32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9  
## [26] 8 7 6 5 4 3 2 1

library(ggplot2)  
sumdata <- df %>% group\_by(df[["Audience Country"]]) %>% mutate(sums = sum(followers)) %>% ungroup() %>% ggplot(aes(x = df[["Audience Country"]], y = sums)) + geom\_bar(stat = "identity") + labs(y="Total follower count",title="Total follower count V/S Audience country") + theme\_bw() + theme(axis.text.x = element\_text(angle = 90))   
#sum<-sumdata + theme(axis.text.x = element\_text(hjust = 5))  
print(sumdata)

 From the above graph we can understand that the United States is associated with the maximum number of follower count which is over 8000000000 as seen in the graph (actual value as computed : 9020800000) with reference to the graph we can conclude that India is in the 2nd position of follower count with around little less than 6000000000 (actual value as computed : 5619600000 ).

###CONCLUSION: In a few short sentences, describe your Instagram profile (category, followers, estimated engagement). Compare your profile to the analysis done of the top 1000 profiles. If you were tasked to becoming an influencer, what would be the best way for you to increase your followers and user engagement?

My Instagram account \_gaurav\_mahajan\_ is a private one.I have 410 followers and I follow 798 accounts. Estimated engagement is not applicable to my account.I hope I will have a few followers post the upload.

It’s peanuts compared to all those out there in the dataset.I am nowhere near the i in the word influencer. But the best ways to increase followers and engagement is creating good content that is not only perceivable by the local audience but also by global audiences.Making reels,posting photos and videos online has become a form of art.Followers can be increased by posting frequently on a public handle ,simultaneously sticking to the ongoing trends and using hashtags.