

## MONGODB STUDYPOINT EXERCISE

### HOW MANY TWITTER USERS ARE IN OUR DATABASE?

```
// QUERY - How many Twitter users are in our database
public void howManyUsers(){
    int users = connect.collection.distinct("user", BsonValue.class)
        .into(new ArrayList<BsonValue>()).size();
    System.out.println("Get All users: " + users);
}
```

#### SYSTEM RESULTS

All Users count  
·Get All users: 659178

### WHICH TWITTER USERS LINK THE MOST TO OTHER TWITTER USERS (PROVIDE TOP TEN)

```
// QUERY - Which twitter users link the most to other Twitter users (provide the top ten)
public void mostLinkedUsers(int topten){
    connect.collection.aggregate(Arrays.asList(
        Aggregates.match(regex("text", ".*@.*")),
        Aggregates.group("$user", sum("tweets", 1)),
        Aggregates.sort(descending("tweets")),
        Aggregates.limit(topten))).forEach(print());
}
```

#### SYSTEM RESULTS

Most linked users  
{ "\_id" : "lost\_dog", "tweets" : 549 }  
{ "\_id" : "tweetpet", "tweets" : 310 }  
{ "\_id" : "VioletsCRUK", "tweets" : 251 }  
{ "\_id" : "what\_bugs\_u", "tweets" : 246 }  
{ "\_id" : "tsarnick", "tweets" : 245 }

### WHO ARE THE MOST MENTIONED TWITTER USERS (PROVIDE TOP FIVE)

NOT IMPLEMENTED

## WHO ARE THE MOST ACTIVE TWITTER USERS (PROVIDE TOP TEN)

```
// QUERY - Who are the most active twitter users (top ten)
public void mostActiveUsers(int topten){
    connect.collection.aggregate(Arrays.asList(
        Aggregates.group("$user", sum("tweets", 1)),
        Aggregates.sort(descending("tweets")),
        Aggregates.limit(topten))).forEach(print());
}
```

## SYSTEM RESULTS

Most active users

```
{ "_id" : "lost_dog", "tweets" : 549 }
{ "_id" : "webwoke", "tweets" : 345 }
{ "_id" : "tweetpet", "tweets" : 310 }
{ "_id" : "SallytheShizzle", "tweets" : 281 }
{ "_id" : "VioletsCRUK", "tweets" : 279 }
{ "_id" : "mcraddictal", "tweets" : 276 }
{ "_id" : "tsarnick", "tweets" : 248 }
{ "_id" : "what_bugs_u", "tweets" : 246 }
{ "_id" : "Karen230683", "tweets" : 238 }
{ "_id" : "DarkPiano", "tweets" : 236 }
```

## WHO ARE THE FIVE MOST GRUMPY (MOST NEGATIVE TWEETS)

## WHO ARE THE FIVE MOST HAPPY (MOST POSITIVE TWEETS)

```
public void mostGrumpyUsers(int topfive){
    connect.collection.aggregate(Arrays.asList(
        Aggregates.match(regex("text", "fuck")),
        Aggregates.sort(descending("tweets")),
        Aggregates.limit(topfive))).forEach(print());
}

// Query - Who are the five most grumpy and the most happy? (five users for each group)
public void mostHappyUsers(int topfive){
    connect.collection.aggregate(Arrays.asList(
        Aggregates.match(regex("text", "love")),
        Aggregates.sort(descending("tweets")),
        Aggregates.limit(topfive))).forEach(print());
}
```

## SYSTEM RESULTS

```
"ilovedanah", "text" : "@nachojohnny Brian don't make me fuck u up LOL I replied 2 ur message...did u get my # ? I miss u" }
"jmbirney", "text" : "I reaaaly miss john mayer's twitters. fuck rude people. Remove him if you don't like his tweets, bitchfucks." }
"iggyp", "text" : "I just saw that they found that Tracy girl in a piece of luggage... How fucking terrible" }
"taspenca", "text" : "Is fucked to go back to IC" }
"roniker", "text" : "fuck omg austins always there though man &lt;3 love you" }

"bmr0201", "text" : "I'm missing you babe.. but as long as your alive I'm happy.. Yawwwnn.. I'm tired my love imma try to sleep hopefully you had a headstart" }
"CaddyStage", "text" : "@robluketic love the french. I tell people here in the south i'm qtr. french and they snarl at me. french are beautiful people" }
"Pbearfox", "text" : "@julieebaby awe i love you too!!!! 1 am here i miss you" }
"starkissed", "text" : "@LettyA ahh ive always wanted to see rent love the soundtrack!!" }
"eyezup", "text" : "@mercedesashley Damn! The grind is inspirational and saddening at the same time. Don't want you to stop cuz I like what u do! Much love" }
```