

## MAT 259 Assignment 1, Lakshman Nataraj

As an avid reader of Japanese manga, I was interested in seeing how many people read Japanese manga and how many watch the anime of the manga. I wanted to analyze this on the current most popular manga: Naruto. Some of the specific questions that I was interested in were:

### How many checkouts of Naruto manga books?

```
SELECT count(*) FROM spl2.inraw where title like "%naruto%" and itemtype = "acbk";
```

Ans: 44555, Query time: 50.047 sec

### How many checkouts of Naruto anime CD/DVDs?

```
SELECT count(*) FROM spl2.inraw where title like "%naruto%" and (itemtype = "accd" or itemtype = "acdvd") ;
```

Ans: 44519, Query Time: 54.875 sec

### What is the number of Naruto manga books checked out every year after 2006?

```
SELECT count(*),year(cout) FROM spl2.inraw  
where (title like "%naruto%" and itemtype="acbk")  
and year(cout)>="2006"  
group by year(cout);
```

9 rows returned, Query Time: 53.343 sec, CSV file: naruto\_books\_checkouts\_per\_year.csv

### What is the number of Naruto anime CD/DVDs checked out every year after 2006?

```
SELECT count(*),year(cout) FROM spl2.inraw  
where (title like "%naruto%" and (itemtype="accd" or itemtype="acdvd"))  
and year(cout)>="2006"  
group by year(cout);
```

9 rows returned, Query Time: 54.578 sec, CSV file: naruto\_cddvd\_checkouts\_per\_year.csv

**Comparison Table**

Year	Books	CD/DVDs
2006	<b>2814</b>	501
2007	<b>4595</b>	3817
2008	<b>10550</b>	8992
2009	9804	<b>10396</b>
2010	6369	<b>9944</b>
2011	4580	<b>6183</b>
2012	<b>2227</b>	2122
2013	<b>2245</b>	1697

2014	1	2
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**What is the checkout time (in number of days) for every book and CD/DVD checked out?**

*SELECT DATEDIFF(cin,cout) FROM spl2.inraw where (title like "%naruto%" and itemtype = "acbk") AND year(cout)>='2006' order by dayofyear(cout);*

43185 rows returned, Query Time: 54.094 sec, CSV file: naruto\_books\_chkout\_time.csv

*SELECT DATEDIFF(cin,cout) FROM spl2.inraw where (title like "%naruto%" and (itemtype = "accd" or itemtupe="acdvd")) AND year(cout)>='2006' order by dayofyear(cout) ;*

43654 rows returned, Query Time: 57.656 sec, CSV file: naruto\_cddvd\_chkout\_time.csv

**Comments and Analysis:**

The overall number of books and CD/DVDs of Naruto that have been checked out seem to be almost the same. However, a year by year analysis shows that from 2006 to 2008, the books seem to be more popular. But from 2009-2011, the number of CD/DVDs checked out were significantly more than the number of books. This could probably be due to the popularity of the new TV show *Naruto Shippuuden* which was released in the USA around mid 2008. The popularity of the CD/DVDs seem to fade from 2012 onwards. I was also interested to see the checkout times for books and CD/DVDs. However, since the rows returned were large (40K+), I plan to do a comparative visualization of both the checkout times in the next assignment.