

Who Watches (or reads) the Watchmen?

MAT 259: Assignment 1

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Data from Seattle Public Library

Keyword: Watchmen

Background

On the first day of lecture we looked at the various forms of media made available by the Seattle Public Library. Specifically, we were shown various visualizations of which genres and media forms were most actively circulated (checked in/out). Comics / graphic novels immediately jumped out to me. What an

ideal form of media for a library; due to the short length and frequency of new editions, buying/collecting comic books can be quite expensive. A library that carries comics provides a wonderful venue for individuals to have large comic collections at ones fingertips. What I wanted to know was, does this comic readership bleed over into other forms of media (books, movies, etc.)? I.e. does the foot-traffic associated with the library offering such sought-after content as comics lead to more checkouts of other forms of media? Vice versa, as new forms of media associated with the original comic are released, does older content become relevant once more?

As a first attempt to answer this question (and a first attempt to use SQL), I decided to investigate the first graphic novel that captivated me in grade-school: The Watchmen. Watchmen is an American comic book maxiseries by the British creative team of writer Alan Moore, artist Dave Gibbons and colorist John Higgins. It was published by DC Comics in 1986 and 1987, and collected in a single volume edition in 1987. The graphic novel has since then been adapted as a full length film, an animated series, and an HBO television series, and has several precursor and same-universe book series spin offs.



After this initial step I check for items that should not be included and found multiple:

- *Garbo and the Night Watchmen* is a collection of essays on pleasure and pain in the movies; solicited and edited by Alistair Cooke in 1936.
- *Nightwatchmen* is a book about a man who stumbles into a magical world and determines to find out where the night train goes and who the mysterious watchmen are. First published in 1969.
- *The German Episcopacy and the Implementation of the Decrees of the Fourth Lateran Council, 1216-1245* is part of a series on the history of christian traditions titled *Watchmen on the Tower*

To eliminate these I used the 'NOT LIKE' command

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671 SUM(CASE
672     WHEN (YEAR(cout) = 2019 AND MONTH(cout) = 12) THEN 1
673     ELSE 0
674     END) AS '2019-12'
675 FROM
676     spl_2016.outraw
677 WHERE
678     title LIKE '%watchmen%'
679     AND title NOT LIKE '%1937%'
680     AND title NOT LIKE '%German%'
681     AND title NOT LIKE '%Nightwatchmen%'
682 GROUP BY title , callNumber , itemtype
683 ORDER BY Counts DESC
684

```

Title	Counts	callNumber	itemtype	2006-1	2006-2	2006-3	2006-4	2006-5	2006-6	2006-7	2006-8	2006-9	2006-10	2006-11	2006-12	2007-1	2007-2
Watchmen	8281	DVD WATCHME	acdvd	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Watchmen	2345	YA 741.5942 M781W 1987	acbk	3	4	8	6	7	10	8	14	9	13	11	10	6	7
Watchmen Tales of the Black Freighter	1345	DVD WATCHME	acdvd	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Watchmen music from the motion picture	997	CD 781.542 W29	accd	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Watchmen the deluxe edition	782	741.5942 M7811W 2013	acbk	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Watchmen the complete motion comic	582	DVD WATCHME	acdvd	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Before Watchmen Nite Owl Dr Manhattan	349	741.5973 S1812B 2013	acbk	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Before Watchmen Ozymandias Crimson Corsair	329	741.5973 W4303B 2013	acbk	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Before Watchmen Minutemen Silk Spectre	303	741.5973 C7744B 2013	acbk	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Before Watchmen Comedian Rorschach	292	741.5973 A291B 2013	acbk	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Watching the watchmen	232	741.5 M7811G 2008	acbk	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Watchmen and philosophy a Rorschach test	119	741.5942 W29 2009	acbk	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Watchmen the complete motion comic	100	DVD WATCHMA	acdvd	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Watchmen the film companion	80	781.4372 W29A 2009	acbk	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Watchmen	74	741.5942 M781Wd	acbk	3	2	3	3	4	3	2	2	1	3	0	1	1	0
watchmen	50	FIC ALTMAN2004	acbk	0	0	0	2	0	0	3	0	1	1	0	1	0	0
Watchmen annotated	26	741.5942 M7811Wa 2017	acbk	0	0	0	0	0	0	0	0	0	0	0	0	0	0
watchmen	17	FIC FREEMAN	acbk	0	1	0	1	1	0	0	1	1	0	1	0	0	0

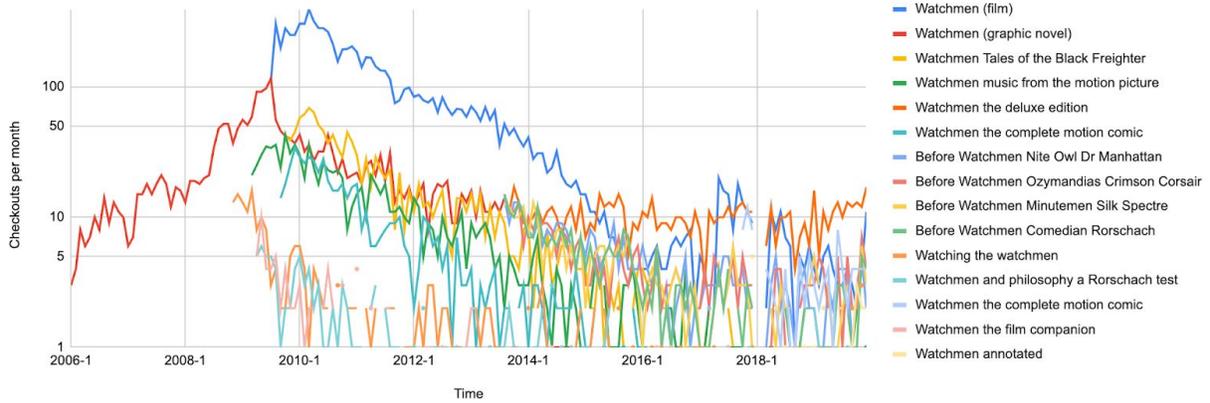
This concluded my SQL queries. From here I saved the data to a csv and imported it into excel.

Excel Data Cleaning and Plotting

After getting the data into excel I made a basic time series plot with all of the available data. I used a log scale on the y-axis so movement in the less popular / more obscure items could still be seen (with a normal y-axis, the graphic novel and movie stretch the y-axis so much that the movement of the less checked-out items is obscured).

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1														
2	Counts	8281	2345	1345	997	782	582	349	329	303	292	232	119	10
3	callNumber	DVD WATCHME	41.5942 M781W	DVD WATCHME	CD 781.542 W29.5942 M781W 2		DVD WATCHME	1.5973 S1812B 2	5973 W4303B 2	5973 C7744B 2	1.5973 A291B 2041.5	M7811G 20C41.5942 W29 20C		DVD WA
4	ItemType	acdv	acbk	acdv	accd	acbk	acdv	acbk	acbk	acbk	acbk	acbk	acbk	accd
5	Title	Watchmen (film)	Watchmen (film)	Tales of the Black Freighter	From the motion picture deluxe	Watchmen the complete motion comic	Watchmen Nite Owl Dr Manhattan	Ozymandias	Minutemen	Comedian	Watching the watchmen	philosophy a R	Watchmen the comp	
6	2006-1	0	3	0	0	0	0	0	0	0	0	0	0	0
7	2006-2	0	4	0	0	0	0	0	0	0	0	0	0	0
8	2006-3	0	8	0	0	0	0	0	0	0	0	0	0	0
9	2006-4	0	6	0	0	0	0	0	0	0	0	0	0	0
10	2006-5	0	7	0	0	0	0	0	0	0	0	0	0	0
11	2006-6	0	10	0	0	0	0	0	0	0	0	0	0	0
12	2006-7	0	8	0	0	0	0	0	0	0	0	0	0	0
13	2006-8	0	14	0	0	0	0	0	0	0	0	0	0	0
14	2006-9	0	9	0	0	0	0	0	0	0	0	0	0	0
15	2006-10	0	13	0	0	0	0	0	0	0	0	0	0	0
16	2006-11	0	11	0	0	0	0	0	0	0	0	0	0	0
17	2006-12	0	10	0	0	0	0	0	0	0	0	0	0	0
18	2007-1	0	6	0	0	0	0	0	0	0	0	0	0	0
19	2007-2	0	7	0	0	0	0	0	0	0	0	0	0	0
20	2007-3	0	15	0	0	0	0	0	0	0	0	0	0	0
21	2007-4	0	15	0	0	0	0	0	0	0	0	0	0	0
22	2007-5	0	18	0	0	0	0	0	0	0	0	0	0	0
23	2007-6	0	15	0	0	0	0	0	0	0	0	0	0	0
24	2007-7	0	18	0	0	0	0	0	0	0	0	0	0	0
25	2007-8	0	21	0	0	0	0	0	0	0	0	0	0	0
26	2007-9	0	18	0	0	0	0	0	0	0	0	0	0	0
27	2007-10	0	12	0	0	0	0	0	0	0	0	0	0	0
28	2007-11	0	17	0	0	0	0	0	0	0	0	0	0	0
29	2007-12	0	16	0	0	0	0	0	0	0	0	0	0	0
30	2008-1	0	13	0	0	0	0	0	0	0	0	0	0	0
31	2008-2	0	19	0	0	0	0	0	0	0	0	0	0	0
32	2008-3	0	19	0	0	0	0	0	0	0	0	0	0	0
33	2008-4	0	18	0	0	0	0	0	0	0	0	0	0	0
34	2008-5	0	20	0	0	0	0	0	0	0	0	0	0	0
35	2008-6	0	21	0	0	0	0	0	0	0	0	0	0	0
36	2008-7	0	34	0	0	0	0	0	0	0	0	0	0	0
37	2008-8	0	48	0	0	0	0	0	0	0	0	0	0	0
38	2008-9	0	62	0	0	0	0	0	0	0	0	0	0	0

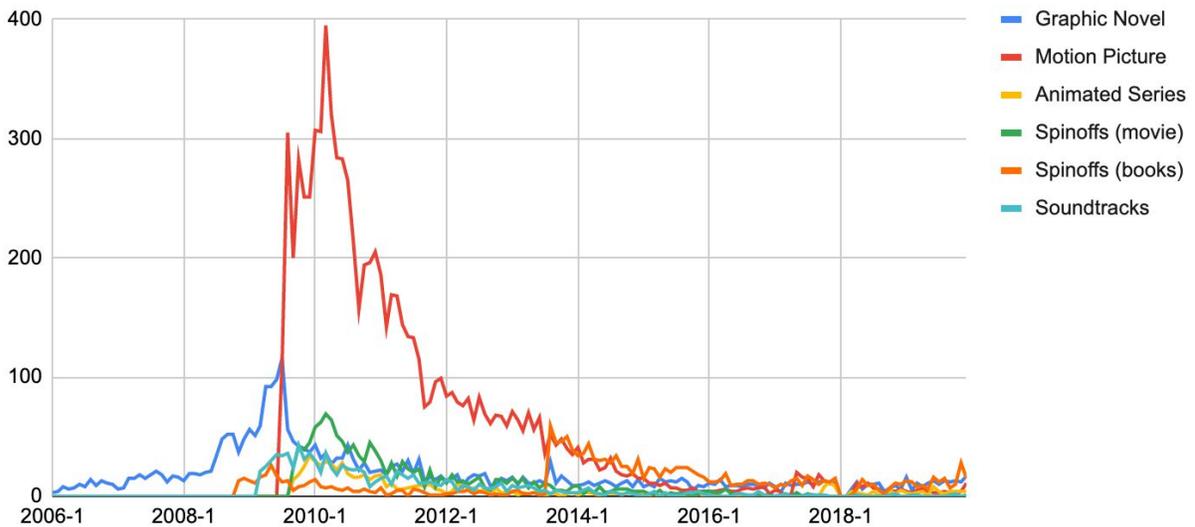
Watchmen Media Checkouts



Even with the log-scale, there were a few too many items, which made the plot tough to interpret. Furthermore, my initial question at hand was how different forms of media impacted each other's checkout activity. So I lumped all of the spinoff books and spinoff movies into one category, and combined the soundtracks. What remained looked like this:

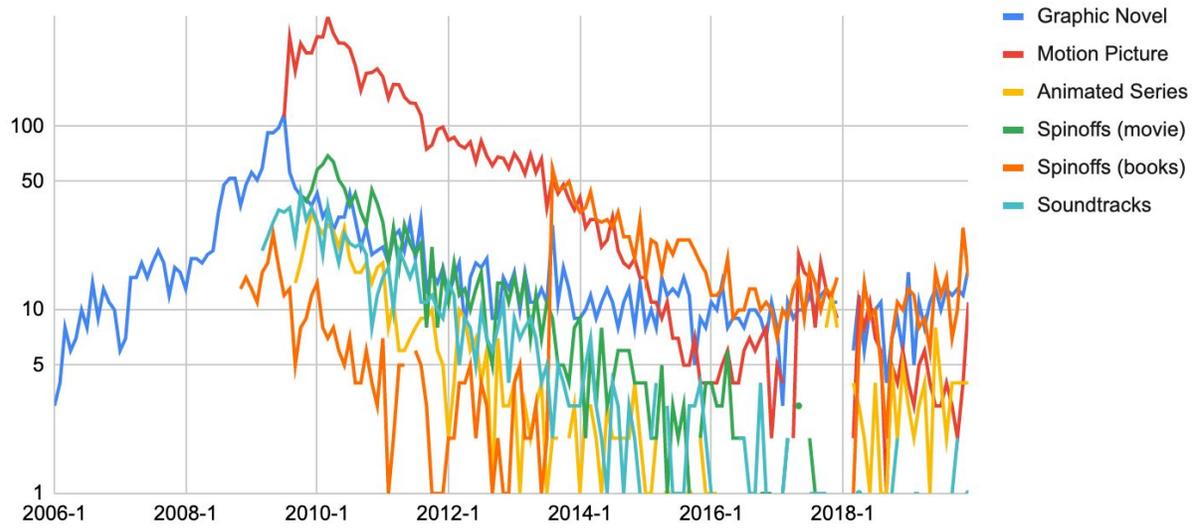
	A	B	C	D	E	F	G
1							
2	Counts	2345	8281	582	1345	349	997
3	callNumber	YA 741.5942 M781W 1987	DVD WATCHME	DVD WATCHME	DVD WATCHME	741.5973 S1812B 2013	CD 781.542 W29
4	Itemtype	acbk	acvd	acvd	acvd	acbk	accd
5		Graphic Novel	Motion Picture	Animated Series	Spinoffs (movie)	Spinoffs (books)	Soundtracks
6	2006-1	3	0	0	0	0	0
7	2006-2	4	0	0	0	0	0
8	2006-3	8	0	0	0	0	0
9	2006-4	6	0	0	0	0	0
10	2006-5	7	0	0	0	0	0
11	2006-6	10	0	0	0	0	0
12	2006-7	8	0	0	0	0	0
13	2006-8	14	0	0	0	0	0
14	2006-9	9	0	0	0	0	0
15	2006-10	13	0	0	0	0	0
16	2006-11	11	0	0	0	0	0
17	2006-12	10	0	0	0	0	0
18	2007-1	6	0	0	0	0	0
19	2007-2	7	0	0	0	0	0
20	2007-3	15	0	0	0	0	0
21	2007-4	15	0	0	0	0	0
22	2007-5	18	0	0	0	0	0
23	2007-6	15	0	0	0	0	0
24	2007-7	18	0	0	0	0	0
25	2007-8	21	0	0	0	0	0
26	2007-9	18	0	0	0	0	0
27	2007-10	12	0	0	0	0	0
28	2007-11	17	0	0	0	0	0
29	2007-12	16	0	0	0	0	0

Popularity of Watchmen Media



Once again I applied the y-axis log scale in order to make the trends of more/less popular items easier to compare.

Popularity of Watchmen Media



Lastly, I combined all media forms into one:

Total Monthly Checkouts (all Watchmen Media)



Assumptions and Analysis

- From October 1987 until October 2005, a live-action film adaptation of the Watchmen series became stranded in development hell, with some producers deeming the complex universe unfilmable.
- In October 2005, Warner Bros picked up the project. We see from the data beginning in 2006 that as the release of the movie (Feb. 2008) gets closer and closer, checkouts of the graphic novel continually increase.
- August 2008: Dave Gibbons publishes *Watching the Watchmen*, which is a behind-the-scenes look at his experience writing the *Watchmen* series, complete with artwork and never before seen sketches of the backstory. This is fairly popular at the library at first
- July 2009: The movie is acquired by the library and the checkouts/month instantly surpass the graphic novel and *Watching the Watchmen* (112 checkouts in the first month and 305 checkouts the next month)
- The film checkouts continue the upward trajectory that the graphic novel and backstory began, while the graphic novel checkout count takes a steep downturn.
- June 2013: *Watchmen, Deluxe Edition* is released.
- August 2013: *Before Watchmen* series is added to the library collective, and quickly becomes the most checked out in the Watchmen collection.
- November 2015: HBO confirms that they are seeking to develop a Watchmen TV series
 - This announcement coincides with a dramatic rise in checkouts of the Watchmen movie
- September 2017: Writing for the Watchmen television series began
- January-February 2018: Curious two months of missing data.
 - Looks like this was around the time of a transition to a new website and a stoppage of the mobile app. Perhaps this disrupted data export?
- August 2018: HBO greenlit a full season of Watchmen, scheduling the premiere of 2019
 - At this point we seen an uptick in checkouts of all of the various Watchmen media, exemplifying how buzz over a new release can stimulate readers to indulge in favorite classics in an attempt to prepare for the upcoming release
 - This trajectory is easiest to see in the total checkout plot

This analysis shows different forms of media for the same content are interconnected. Preceding the release of new content, consumers will revisit older / alternate material. In this way, we see that providing relatable content in different media sources can be an effective means for getting viewers to different sections of the library (providing movies, novels, and soundtracks related to the popular comic took comic book consumers out of that section and into other sections of the library. It would be interesting to see if these consumers that were predominantly comic book

readers ended up checking out other cds or movies AFTER the Watchmen film was released (did their habits change? We also see that at the initial release of new content, older content will decrease in viewership. Overall, the original content (the graphic novel) remains the most stable in terms of checkouts per month.

Complete Source Code

```
SELECT
  Title, COUNT(callNumber) AS Counts, callNumber, Itemtype,
  SUM(CASE
    WHEN (YEAR(cout) = 2006 AND MONTH(cout) = 1) THEN 1
    ELSE 0
  END) AS '2006-1',
  SUM(CASE
    WHEN (YEAR(cout) = 2006 AND MONTH(cout) = 2) THEN 1
    ELSE 0
  END) AS '2006-2',
  SUM(CASE
    WHEN (YEAR(cout) = 2006 AND MONTH(cout) = 3) THEN 1
    ELSE 0
  END) AS '2006-3',
  SUM(CASE
    WHEN (YEAR(cout) = 2006 AND MONTH(cout) = 4) THEN 1
    ELSE 0
  END) AS '2006-4',
  SUM(CASE
    WHEN (YEAR(cout) = 2006 AND MONTH(cout) = 5) THEN 1
    ELSE 0
  END) AS '2006-5',
  SUM(CASE
    WHEN (YEAR(cout) = 2006 AND MONTH(cout) = 6) THEN 1
    ELSE 0
  END) AS '2006-6',
  SUM(CASE
    WHEN (YEAR(cout) = 2006 AND MONTH(cout) = 7) THEN 1
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  END) AS '2006-7',
  SUM(CASE
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    ELSE 0
  END) AS '2006-8',
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    ELSE 0
  END) AS '2006-9',
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  END) AS '2006-11',
  SUM(CASE
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    ELSE 0
  END) AS '2006-12',
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    ELSE 0
  END) AS '2007-1',
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SUM(CASE
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  ELSE 0
END) AS '2007-2',
SUM(CASE
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  ELSE 0
END) AS '2007-3',
SUM(CASE
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END) AS '2007-4',
SUM(CASE
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END) AS '2007-6',
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END) AS '2007-8',
SUM(CASE
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END) AS '2007-9',
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  ELSE 0
END) AS '2007-10',
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END) AS '2007-11',
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END) AS '2007-12',
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  ELSE 0
END) AS '2008-2',
SUM(CASE
  WHEN (YEAR(cout) = 2008 AND MONTH(cout) = 3) THEN 1
  ELSE 0
END) AS '2008-3',
SUM(CASE

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```

    WHEN (YEAR(cout) = 2008 AND MONTH(cout) = 4) THEN 1
    ELSE 0
END) AS '2008-4',
SUM(CASE
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END) AS '2008-5',
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END) AS '2008-6',
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END) AS '2008-7',
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    ELSE 0
END) AS '2008-8',
SUM(CASE
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    ELSE 0
END) AS '2008-9',
SUM(CASE
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END) AS '2008-10',
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END) AS '2009-2',
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END) AS '2009-3',
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    ELSE 0
END) AS '2009-4',
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    ELSE 0
END) AS '2009-5',
SUM(CASE
    WHEN (YEAR(cout) = 2009 AND MONTH(cout) = 6) THEN 1

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ELSE 0
END) AS '2009-6',
SUM(CASE
  WHEN (YEAR(cout) = 2009 AND MONTH(cout) = 7) THEN 1
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END) AS '2009-7',
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END) AS '2009-8',
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END) AS '2010-1',
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END) AS '2010-2',
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END) AS '2010-6',
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  ELSE 0
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SUM(CASE
  WHEN (YEAR(cout) = 2010 AND MONTH(cout) = 8) THEN 1
  ELSE 0
```

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END) AS '2010-8',
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END) AS '2010-9',
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END) AS '2011-10',

```

```

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  ELSE 0
END) AS '2012-1',
SUM(CASE
  WHEN (YEAR(cout) = 2012 AND MONTH(cout) = 2) THEN 1
  ELSE 0
END) AS '2012-2',
SUM(CASE
  WHEN (YEAR(cout) = 2012 AND MONTH(cout) = 3) THEN 1
  ELSE 0
END) AS '2012-3',
SUM(CASE
  WHEN (YEAR(cout) = 2012 AND MONTH(cout) = 4) THEN 1
  ELSE 0
END) AS '2012-4',
SUM(CASE
  WHEN (YEAR(cout) = 2012 AND MONTH(cout) = 5) THEN 1
  ELSE 0
END) AS '2012-5',
SUM(CASE
  WHEN (YEAR(cout) = 2012 AND MONTH(cout) = 6) THEN 1
  ELSE 0
END) AS '2012-6',
SUM(CASE
  WHEN (YEAR(cout) = 2012 AND MONTH(cout) = 7) THEN 1
  ELSE 0
END) AS '2012-7',
SUM(CASE
  WHEN (YEAR(cout) = 2012 AND MONTH(cout) = 8) THEN 1
  ELSE 0
END) AS '2012-8',
SUM(CASE
  WHEN (YEAR(cout) = 2012 AND MONTH(cout) = 9) THEN 1
  ELSE 0
END) AS '2012-9',
SUM(CASE
  WHEN (YEAR(cout) = 2012 AND MONTH(cout) = 10) THEN 1
  ELSE 0
END) AS '2012-10',
SUM(CASE
  WHEN (YEAR(cout) = 2012 AND MONTH(cout) = 11) THEN 1
  ELSE 0
END) AS '2012-11',
SUM(CASE
  WHEN (YEAR(cout) = 2012 AND MONTH(cout) = 12) THEN 1
  ELSE 0
END) AS '2012-12',
SUM(CASE

```

```
    WHEN (YEAR(cout) = 2013 AND MONTH(cout) = 1) THEN 1
    ELSE 0
END) AS '2013-1',
SUM(CASE
    WHEN (YEAR(cout) = 2013 AND MONTH(cout) = 2) THEN 1
    ELSE 0
END) AS '2013-2',
SUM(CASE
    WHEN (YEAR(cout) = 2013 AND MONTH(cout) = 3) THEN 1
    ELSE 0
END) AS '2013-3',
SUM(CASE
    WHEN (YEAR(cout) = 2013 AND MONTH(cout) = 4) THEN 1
    ELSE 0
END) AS '2013-4',
SUM(CASE
    WHEN (YEAR(cout) = 2013 AND MONTH(cout) = 5) THEN 1
    ELSE 0
END) AS '2013-5',
SUM(CASE
    WHEN (YEAR(cout) = 2013 AND MONTH(cout) = 6) THEN 1
    ELSE 0
END) AS '2013-6',
SUM(CASE
    WHEN (YEAR(cout) = 2013 AND MONTH(cout) = 7) THEN 1
    ELSE 0
END) AS '2013-7',
SUM(CASE
    WHEN (YEAR(cout) = 2013 AND MONTH(cout) = 8) THEN 1
    ELSE 0
END) AS '2013-8',
SUM(CASE
    WHEN (YEAR(cout) = 2013 AND MONTH(cout) = 9) THEN 1
    ELSE 0
END) AS '2013-9',
SUM(CASE
    WHEN (YEAR(cout) = 2013 AND MONTH(cout) = 10) THEN 1
    ELSE 0
END) AS '2013-10',
SUM(CASE
    WHEN (YEAR(cout) = 2013 AND MONTH(cout) = 11) THEN 1
    ELSE 0
END) AS '2013-11',
SUM(CASE
    WHEN (YEAR(cout) = 2013 AND MONTH(cout) = 12) THEN 1
    ELSE 0
END) AS '2013-12',
SUM(CASE
    WHEN (YEAR(cout) = 2014 AND MONTH(cout) = 1) THEN 1
    ELSE 0
END) AS '2014-1',
SUM(CASE
    WHEN (YEAR(cout) = 2014 AND MONTH(cout) = 2) THEN 1
    ELSE 0
END) AS '2014-2',
SUM(CASE
    WHEN (YEAR(cout) = 2014 AND MONTH(cout) = 3) THEN 1
```

```
ELSE 0
END) AS '2014-3',
SUM(CASE
  WHEN (YEAR(cout) = 2014 AND MONTH(cout) = 4) THEN 1
  ELSE 0
END) AS '2014-4',
SUM(CASE
  WHEN (YEAR(cout) = 2014 AND MONTH(cout) = 5) THEN 1
  ELSE 0
END) AS '2014-5',
SUM(CASE
  WHEN (YEAR(cout) = 2014 AND MONTH(cout) = 6) THEN 1
  ELSE 0
END) AS '2014-6',
SUM(CASE
  WHEN (YEAR(cout) = 2014 AND MONTH(cout) = 7) THEN 1
  ELSE 0
END) AS '2014-7',
SUM(CASE
  WHEN (YEAR(cout) = 2014 AND MONTH(cout) = 8) THEN 1
  ELSE 0
END) AS '2014-8',
SUM(CASE
  WHEN (YEAR(cout) = 2014 AND MONTH(cout) = 9) THEN 1
  ELSE 0
END) AS '2014-9',
SUM(CASE
  WHEN (YEAR(cout) = 2014 AND MONTH(cout) = 10) THEN 1
  ELSE 0
END) AS '2014-10',
SUM(CASE
  WHEN (YEAR(cout) = 2014 AND MONTH(cout) = 11) THEN 1
  ELSE 0
END) AS '2014-11',
SUM(CASE
  WHEN (YEAR(cout) = 2014 AND MONTH(cout) = 12) THEN 1
  ELSE 0
END) AS '2014-12',
SUM(CASE
  WHEN (YEAR(cout) = 2015 AND MONTH(cout) = 1) THEN 1
  ELSE 0
END) AS '2015-1',
SUM(CASE
  WHEN (YEAR(cout) = 2015 AND MONTH(cout) = 2) THEN 1
  ELSE 0
END) AS '2015-2',
SUM(CASE
  WHEN (YEAR(cout) = 2015 AND MONTH(cout) = 3) THEN 1
  ELSE 0
END) AS '2015-3',
SUM(CASE
  WHEN (YEAR(cout) = 2015 AND MONTH(cout) = 4) THEN 1
  ELSE 0
END) AS '2015-4',
SUM(CASE
  WHEN (YEAR(cout) = 2015 AND MONTH(cout) = 5) THEN 1
  ELSE 0
```

```
END) AS '2015-5',
SUM(CASE
  WHEN (YEAR(cout) = 2015 AND MONTH(cout) = 6) THEN 1
  ELSE 0
END) AS '2015-6',
SUM(CASE
  WHEN (YEAR(cout) = 2015 AND MONTH(cout) = 7) THEN 1
  ELSE 0
END) AS '2015-7',
SUM(CASE
  WHEN (YEAR(cout) = 2015 AND MONTH(cout) = 8) THEN 1
  ELSE 0
END) AS '2015-8',
SUM(CASE
  WHEN (YEAR(cout) = 2015 AND MONTH(cout) = 9) THEN 1
  ELSE 0
END) AS '2015-9',
SUM(CASE
  WHEN (YEAR(cout) = 2015 AND MONTH(cout) = 10) THEN 1
  ELSE 0
END) AS '2015-10',
SUM(CASE
  WHEN (YEAR(cout) = 2015 AND MONTH(cout) = 11) THEN 1
  ELSE 0
END) AS '2015-11',
SUM(CASE
  WHEN (YEAR(cout) = 2015 AND MONTH(cout) = 12) THEN 1
  ELSE 0
END) AS '2015-12',
SUM(CASE
  WHEN (YEAR(cout) = 2016 AND MONTH(cout) = 1) THEN 1
  ELSE 0
END) AS '2016-1',
SUM(CASE
  WHEN (YEAR(cout) = 2016 AND MONTH(cout) = 2) THEN 1
  ELSE 0
END) AS '2016-2',
SUM(CASE
  WHEN (YEAR(cout) = 2016 AND MONTH(cout) = 3) THEN 1
  ELSE 0
END) AS '2016-3',
SUM(CASE
  WHEN (YEAR(cout) = 2016 AND MONTH(cout) = 4) THEN 1
  ELSE 0
END) AS '2016-4',
SUM(CASE
  WHEN (YEAR(cout) = 2016 AND MONTH(cout) = 5) THEN 1
  ELSE 0
END) AS '2016-5',
SUM(CASE
  WHEN (YEAR(cout) = 2016 AND MONTH(cout) = 6) THEN 1
  ELSE 0
END) AS '2016-6',
SUM(CASE
  WHEN (YEAR(cout) = 2016 AND MONTH(cout) = 7) THEN 1
  ELSE 0
END) AS '2016-7',
```

```
SUM(CASE
  WHEN (YEAR(cout) = 2016 AND MONTH(cout) = 8) THEN 1
  ELSE 0
END) AS '2016-8',
SUM(CASE
  WHEN (YEAR(cout) = 2016 AND MONTH(cout) = 9) THEN 1
  ELSE 0
END) AS '2016-9',
SUM(CASE
  WHEN (YEAR(cout) = 2016 AND MONTH(cout) = 10) THEN 1
  ELSE 0
END) AS '2016-10',
SUM(CASE
  WHEN (YEAR(cout) = 2016 AND MONTH(cout) = 11) THEN 1
  ELSE 0
END) AS '2016-11',
SUM(CASE
  WHEN (YEAR(cout) = 2016 AND MONTH(cout) = 12) THEN 1
  ELSE 0
END) AS '2016-12',
SUM(CASE
  WHEN (YEAR(cout) = 2017 AND MONTH(cout) = 1) THEN 1
  ELSE 0
END) AS '2017-1',
SUM(CASE
  WHEN (YEAR(cout) = 2017 AND MONTH(cout) = 2) THEN 1
  ELSE 0
END) AS '2017-2',
SUM(CASE
  WHEN (YEAR(cout) = 2017 AND MONTH(cout) = 3) THEN 1
  ELSE 0
END) AS '2017-3',
SUM(CASE
  WHEN (YEAR(cout) = 2017 AND MONTH(cout) = 4) THEN 1
  ELSE 0
END) AS '2017-4',
SUM(CASE
  WHEN (YEAR(cout) = 2017 AND MONTH(cout) = 5) THEN 1
  ELSE 0
END) AS '2017-5',
SUM(CASE
  WHEN (YEAR(cout) = 2017 AND MONTH(cout) = 6) THEN 1
  ELSE 0
END) AS '2017-6',
SUM(CASE
  WHEN (YEAR(cout) = 2017 AND MONTH(cout) = 7) THEN 1
  ELSE 0
END) AS '2017-7',
SUM(CASE
  WHEN (YEAR(cout) = 2017 AND MONTH(cout) = 8) THEN 1
  ELSE 0
END) AS '2017-8',
SUM(CASE
  WHEN (YEAR(cout) = 2017 AND MONTH(cout) = 9) THEN 1
  ELSE 0
END) AS '2017-9',
SUM(CASE
```

```

    WHEN (YEAR(cout) = 2017 AND MONTH(cout) = 10) THEN 1
    ELSE 0
END) AS '2017-10',
SUM(CASE
    WHEN (YEAR(cout) = 2017 AND MONTH(cout) = 11) THEN 1
    ELSE 0
END) AS '2017-11',
SUM(CASE
    WHEN (YEAR(cout) = 2017 AND MONTH(cout) = 12) THEN 1
    ELSE 0
END) AS '2017-12',
SUM(CASE
    WHEN (YEAR(cout) = 2018 AND MONTH(cout) = 1) THEN 1
    ELSE 0
END) AS '2018-1',
SUM(CASE
    WHEN (YEAR(cout) = 2018 AND MONTH(cout) = 2) THEN 1
    ELSE 0
END) AS '2018-2',
SUM(CASE
    WHEN (YEAR(cout) = 2018 AND MONTH(cout) = 3) THEN 1
    ELSE 0
END) AS '2018-3',
SUM(CASE
    WHEN (YEAR(cout) = 2018 AND MONTH(cout) = 4) THEN 1
    ELSE 0
END) AS '2018-4',
SUM(CASE
    WHEN (YEAR(cout) = 2018 AND MONTH(cout) = 5) THEN 1
    ELSE 0
END) AS '2018-5',
SUM(CASE
    WHEN (YEAR(cout) = 2018 AND MONTH(cout) = 6) THEN 1
    ELSE 0
END) AS '2018-6',
SUM(CASE
    WHEN (YEAR(cout) = 2018 AND MONTH(cout) = 7) THEN 1
    ELSE 0
END) AS '2018-7',
SUM(CASE
    WHEN (YEAR(cout) = 2018 AND MONTH(cout) = 8) THEN 1
    ELSE 0
END) AS '2018-8',
SUM(CASE
    WHEN (YEAR(cout) = 2018 AND MONTH(cout) = 9) THEN 1
    ELSE 0
END) AS '2018-9',
SUM(CASE
    WHEN (YEAR(cout) = 2018 AND MONTH(cout) = 10) THEN 1
    ELSE 0
END) AS '2018-10',
SUM(CASE
    WHEN (YEAR(cout) = 2018 AND MONTH(cout) = 11) THEN 1
    ELSE 0
END) AS '2018-11',
SUM(CASE
    WHEN (YEAR(cout) = 2018 AND MONTH(cout) = 12) THEN 1

```

```

ELSE 0
END) AS '2018-12',
SUM(CASE
  WHEN (YEAR(cout) = 2019 AND MONTH(cout) = 1) THEN 1
  ELSE 0
END) AS '2019-1',
SUM(CASE
  WHEN (YEAR(cout) = 2019 AND MONTH(cout) = 2) THEN 1
  ELSE 0
END) AS '2019-2',
SUM(CASE
  WHEN (YEAR(cout) = 2019 AND MONTH(cout) = 3) THEN 1
  ELSE 0
END) AS '2019-3',
SUM(CASE
  WHEN (YEAR(cout) = 2019 AND MONTH(cout) = 4) THEN 1
  ELSE 0
END) AS '2019-4',
SUM(CASE
  WHEN (YEAR(cout) = 2019 AND MONTH(cout) = 5) THEN 1
  ELSE 0
END) AS '2019-5',
SUM(CASE
  WHEN (YEAR(cout) = 2019 AND MONTH(cout) = 6) THEN 1
  ELSE 0
END) AS '2019-6',
SUM(CASE
  WHEN (YEAR(cout) = 2019 AND MONTH(cout) = 7) THEN 1
  ELSE 0
END) AS '2019-7',
SUM(CASE
  WHEN (YEAR(cout) = 2019 AND MONTH(cout) = 8) THEN 1
  ELSE 0
END) AS '2019-8',
SUM(CASE
  WHEN (YEAR(cout) = 2019 AND MONTH(cout) = 9) THEN 1
  ELSE 0
END) AS '2019-9',
SUM(CASE
  WHEN (YEAR(cout) = 2019 AND MONTH(cout) = 10) THEN 1
  ELSE 0
END) AS '2019-10',
SUM(CASE
  WHEN (YEAR(cout) = 2019 AND MONTH(cout) = 11) THEN 1
  ELSE 0
END) AS '2019-11',
SUM(CASE
  WHEN (YEAR(cout) = 2019 AND MONTH(cout) = 12) THEN 1
  ELSE 0
END) AS '2019-12'
FROM
spl_2016.outraw
WHERE
title LIKE '%watchmen%'
AND title NOT LIKE '%1937%'
AND title NOT LIKE '%German%'
AND title NOT LIKE '%Nightwatchmen%'

```

```
GROUP BY title , callNumber , itemtype  
ORDER BY Counts DESC
```