

Automating Booklist Curation With SQL

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 #IUG2019



Sunday, May 5th | Pre-Conference

Monday, May 6th – Wednesday, May 8th | Main Conference

Who Am I?

- Cataloger & Acquisitions Librarian turned self-taught data enthusiast
- Minuteman Library Network
 - 41 Member consortia
 - MetroWest area outside Boston
 - Both Public and Academic members



This is Rufus #DogsOfIUG

Background

- October 2017 formed web redesign taskforce to update public and staff web pages
- Design was last refreshed in 2013
- In discovery found that our booklists received the most traffic beyond our home page by far
- Had begun to pursue automated lists for our old site and wished to expand on those efforts

Prior Website

- [Michael L. Printz Award](#)
- [Newbery Medal](#)
- [Top 10 Best Fiction for Young Adults](#)
- [Working Together for Justice](#)

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Awards - Mystery

- [Agatha Awards](#)
- [Edgar Awards](#)
- [The Crime Writers' Association Dagger Awards](#)

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Bestseller Lists / Everyone

- [New York Times Advice, How-To & Miscellaneous Bestsellers](#)
- [New York Times Business Bestsellers](#)
- [New York Times Children's Middle Grade Hardcover Bestsellers](#)
- [New York Times Children's Picture Books Bestsellers](#)
- [New York Times Children's Series Bestsellers](#)
- [New York Times Hardcover Fiction Bestsellers](#)
- [New York Times Hardcover Nonfiction Bestsellers](#)
- [New York Times Paperback Nonfiction Bestsellers](#)
- [New York Times Paperback Trade Fiction Bestsellers](#)
- [New York Times Science Bestsellers](#)
- [New York Times Sports and Fitness Bestsellers](#)
- [New York Times Young Adult Hardcover Bestsellers](#)

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Other Booklists - Adults / Everyone

- [Red Sox items](#)
- [Top Requests in the Minuteman Library Network](#)

- Lacked a content strategy
- Overwhelmed by awards lists
- More popular lists fell to bottom of navigation

Prior Website

National Book Awards

Presented annually in the USA, by the National Book Foundation, to recognize achievements in fiction, non-fiction, poetry, and young people's literature.

For more information see: [The National Book Foundation](#)

Click on the titles below to search the catalog

Year	Category	Title	Author
2017	Fiction	Sing, Unburied, Sing	Jesmyn Ward
	Nonfiction	The Future Is History: How Totalitarianism Reclaimed Russia	Masha Gessen
	Poetry	Half-light: Collected Poems 1965-2016	Frank Bidart
	Young People's Literature	Far from the Tree	Robin Benway
2016	Fiction	The Underground Railroad	Colson Whitehead
	Nonfiction	Stamped from the Beginning: The Definitive History of Racist Ideas in America	Ibram X. Kendi
	Poetry	The Performance of Becoming Human	Daniel Borzutzky
	Young People's Literature	March: Book Three	John Lewis, Andrew Aydin & Nate Powell (Artist)
2015	Fiction	Fortune Smiles: Stories	Adam Johnson
	Nonfiction	Between the World and Me	Ta-Nehisi Coates
	Poetry	Voyage of the Sable Venus	Robin Coste Lewis
	Young People's Literature	Challenger Deep	Neal Shusterman

Nobel Prize for Literature

The very first Nobel Prize in Literature was awarded in 1901 to the French poet and philosopher Sully Prudhomme, who in his poetry showed the "rare combination of the qualities of both heart and intellect." Over the years, the Nobel Prize in Literature has distinguished the works of authors from many different languages and cultural backgrounds. The prize has been awarded to unknown masters as well as authors acclaimed worldwide.





For more information see: [The Nobel Prize for Literature](#)

Click on the titles below to search the catalog

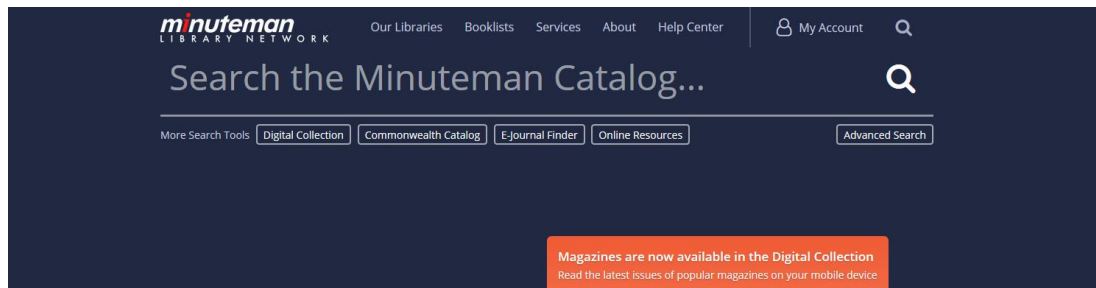
Year	Author
2017	Kazuo Ishiguro
2016	Bob Dylan
2015	Svetlana Alexievich
2014	Patrick Modiano
2013	Alice Munro
2012	Mo Yan
2011	Tomas Tranströmer
2010	Mario Vargas Llosa
2009	Herta Müller
2008	Jean-Marie Gustave Le Clézio
2007	Doris Lessing
2006	Orhan Pamuk

New York Times Hardcover Fiction Bestseller List For the week ending Oct 14, 2018

Click on the titles below to search the catalog

Rank	Last Week	Title	Author	Cover
1	new	An Absolutely Remarkable Thing	Hank Green	
2	new	Vince Flynn: Red War	Kyle Mills	
3	2	Juror #3	James Patterson and Nancy Allen	
4	new	Transcription	Kate Atkinson	

New Website



- Developed by **A+OM**
- Launched Oct 2018
- Booklists are now featured prominently

Booklists

Explore lists of popular and critically acclaimed books, movies, and other materials at our member libraries.

New & Bestsellers

Award Winners

Kids & Teen

Local Interest

Audio & Video

Recommended



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Goals for new site

- Regularly provide new content
- Limit staff time necessary for curation
- Diversify lists
 - More formats, backlists, diverse authors and subject matter
- Maintain design standards

List types

- Static Lists (drag and drop editor)
- NYT Books API lists
- SQL based
 - Data driven (new items, trending items)
 - Lazy curation (staff picks, books adapted to film)
 - Topical
 - Some are permanent (Mass Travel guides) most are temporary (Queen Victoria's 200th Birthday)

Static Lists

New & Bestsellers Award Winners Kids & Teens Local Interest Audio & Video Recommended Reads

Topics

Agatha Awards

Bram Stoker Awards

Edgar Awards

Eisner Awards

Gold Dagger Awards

Hugo Awards

James Beard Foundation Cookbook Hall of Fame

James Beard Foundation Cookbook of the Year

Man Booker Prize

Massachusetts Book Awards

National Book Award







National Book Critics Circle Award

The National Book Awards

Presented annually in the USA, by the National Book Foundation, to recognize achievements in fiction, non-fiction, poetry, and young people's literature.

For more information see: [The National Book Foundation](#)

2018 Winners

The Friend Sigrid Nunez 2018 Fiction		The New Negro: The Life of Alain Locke Jeffrey C Stewart 2018 Nonfiction	
Indecency Justin Phillip Reed 2018 Poetry		The Poet X Elizabeth Acevedo 2018 Young People's Literature	
Sing, Unburied, Sing Jesmyn Ward 2017 Fiction		The Future Is History: How Totalitarianism Reclaimed Russia Masha Gessen 2017	

- Use Drupal drag and drop editor
- Large investment of staff time
- Only use with lists requiring few updates
- Awards lists



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NYT Books API

New & Bestsellers Award Winners Kids & Teens Local Interest Audio & Video Recommended Reads

Topics [New York Times Hardcover Fiction Bestsellers](#)

Coming Soon (Books) For the week ending Nov 25, 2018

Coming Soon (Videos)

New Audiobooks

New Books

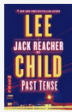



New Videos

New York Times Advice, How-To & Miscellaneous Bestsellers

New York Times Business Bestsellers

New York Times Children's Middle Grade Hardcover Bestsellers

New York Times Children's Picture Books Bestsellers

Rank	Last Week	Title	Author	Cover
1	new	Past Tense	Lee Child	
2	new	Nine Perfect Strangers	Liane Moriarty	
3	2	The Reckoning	John Grisham	
4	3	Dark Sacred Night	Michael Connelly	

- Atom built custom booklist module
- Run weekly via cron job
- Defined most fields used to populate lists in new site

NYT Books API

For more information:

<https://developer.nytimes.com/>



SQL Lists

New & Bestsellers Award Winners Kids & Teens Local Interest Audio & Video Recommended Reads

Topics

Books About Books

Books You Can't Put Down

NaNoWriMo

Thanksgiving





Top Request By Library

Top Requests List

Trending Titles

Top Requests List

The top 50 books by current holds throughout the Minuteman Library Network

Title	Author	Cover
Winter in paradise : a novel	Hilderbrand, Elin, author.	
Becoming	Obama, Michelle, 1964- author.	
Kingdom of the blind	Penny, Louise, author.	
Nine perfect strangers	Moriarty, Liane, author.	
The Tattooist of Auschwitz : A Novel	Morris, Heather (Screenwriter), author.	

All queries online at:

<https://github.com/jmgold/SQL-Queries/wiki/Booklists>

Direct links to specific queries in slide notes

Booklist fields

Standard fields

- Title
 - Encore Link
 - defaults to keyword if blank
- Author
- Cover Image
 - Using Syndetics
 - Needs ISBN or UPC

Optional Fields

- Location
- Format
- Publication Date
- Rank
- Last Week Rank

The Basic Query

SELECT

'https://find.minilib.net/iii/encore/record/C__R'||id2reckey(b.bib_record_id) AS field_booklist_entry_encore_url,
b.best_title AS title,

REPLACE(SPLIT_PART(SPLIT_PART(b.best_author,' (,1),', '2),','')||' '||SPLIT_PART(b.best_author,',',1)
AS field_booklist_entry_author,

(

SELECT

'https://syndetics.com/index.aspx?isbn='||SUBSTRING(s.content FROM '[0-9]+')||'/SC.gif&client=minuteman'
FROM sierra_view.subfield s

WHERE

b.bib_record_id = s.record_id AND s.marc_tag = '020' AND s.tag = 'a'

ORDER BY s.occ_num

LIMIT 1

) AS field_booklist_entry_cover

FROM

sierra_view.bib_record_property b

GROUP BY 1,2,3,4 ;



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Parsing the best_author field

b.best_author	Sharma, Robin S. (Robin Shilip), 1964- author.
<code>SPLIT_PART(b.best_author, ' ', 1)</code>	Sharma, Robin S.
<code>SPLIT_PART(SPLIT_PART(b.best_author, ' ', 1), ',', 2)</code>	Robin S.
<code>REPLACE(SPLIT_PART(SPLIT_PART(b.best_author, ' ', 1), ',', 2), ',', '')</code>	Robin S
<code>REPLACE(SPLIT_PART(SPLIT_PART(b.best_author, ' ', 1), ',', 2), ',', '') ' ' SPLIT_PART(b.best_author, ' ', 1)</code>	Robin S Sharma



Building a cover image link

```
(SELECT  
'https://syndetics.com/index.aspx?isbn=||  
--Use substring to pull only the numeric characters from the field  
SUBSTRING(s.content FROM '[0-9]+')||'/SC.gif&client=minuteman'  
FROM sierra_view.subfield s  
--linking to Marc field 020 |a to isolate ISBN  
WHERE  
b.bib_record_id = s.record_id AND s.marc_tag = '020' AND s.tag = 'a'  
--Order by occurrence and limit to 1 result to find first ISBN in record  
ORDER BY s.occ_num  
LIMIT 1) AS field_booklist_entry_cover
```



Optional Filters

- **WHERE**
 - `b.material_code = 'a'`
 - `b.publish_year >= '2009'`
 - `item_record.is_available_at_library = 'TRUE'`
 - `item_record.item_status_code NOT IN ('m', 'n', 'z', '$', '!',...)`
 - `SUBSTRING(item_record.location_code,4,1) NOT IN ('j','y')`
 - `bib_record.bcode3 != 'g'`
- **ORDER BY SUM(item_record.checkout_total) DESC**
- **ORDER BY COUNT(bib_record_item_record_link.item_record_id) DESC**
- **LIMIT 50**

Data Driven Lists

The screenshot shows the Minuteman Library Network website. The navigation bar includes 'Our Libraries', 'Booklists', 'Services', 'About', 'Help Center', 'My Account', and a search icon. Below the navigation bar are several filter buttons: 'New & Bestsellers', 'Award Winners', 'Kids & Teens', 'Local Interest', 'Audio & Video', 'Recommended Reads', and 'Monthly Spotlight'. The main content area is titled 'New Books' and features a table with columns for 'Title', 'Author', and 'Cover'. The table lists four books: 'Educated: a memoir' by Tara Westover, 'Wings of fire, Book two, The lost heir: the graphic novel' by Tui Sutherland, 'The huntress: a novel' by Kate Quinn, and 'Where the crawdads sing' by Delia Owens. A fifth book, 'The age of surveillance capitalism: the fight for a human future at the new frontier of power' by Shoshana Zuboff, is partially visible at the bottom of the list. On the left side of the page, there is a sidebar with various categories like 'Topics', 'Coming Soon (Books)', 'Coming Soon (Videos)', 'New Audiobooks', 'New Overdrive e-books', 'New Videos', 'New York Times Advice, How-To & Miscellaneous', 'Bestsellers', 'New York Times Business Bestsellers', and 'New York Times Children's Middle Grade Hardcover Bestsellers'.

Title	Author	Cover
Educated: a memoir	Tara Westover	
Wings of fire, Book two, The lost heir: the graphic novel	Tui Sutherland	
The huntress: a novel	Kate Quinn	
Where the crawdads sing	Delia Owens	
The age of surveillance capitalism: the fight for a human future at the new frontier of power	Shoshana Zuboff	

- New Titles
- Coming Soon Titles
- Top Requests
- Trending Titles
- Top Request By Location
- Books You Can't Put Down

New Item List

```
JOIN sierra_view.bib_record_item_record_link bi  
ON
```

```
b.bib_record_id = bi.bib_record_id
```

```
JOIN sierra_view.record_metadata m  
ON
```

```
bi.item_record_id = m.id AND m.creation_date_gmt >  
(localtimestamp - interval '4 days')
```

Top/Trending Titles

JOIN

sierra_view.hold h

ON b.bib_record_id = h.record_id

--Include date filter to make trending titles

WHERE h.placed_gmt >
(LOCALTIMESTAMP -
INTERVAL '2 days')

ORDER BY COUNT(h.id) DESC

Better but more complicated version available at <https://bit.ly/2IJg88I>

Books You Can't Put Down

JOIN

```
sierra_view.item_record i
```

ON

```
bi.item_record_id = i.id
```

JOIN

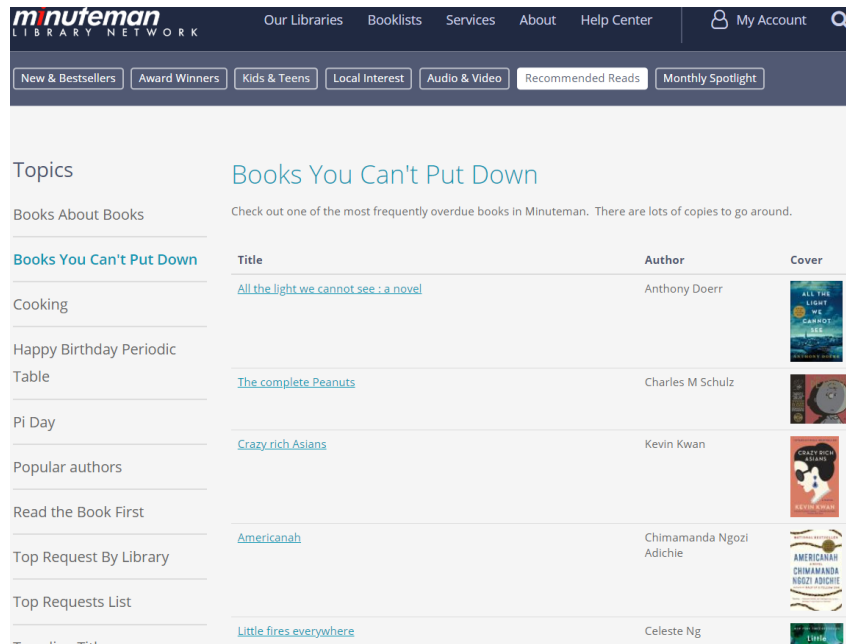
```
sierra_view.fine f
```

ON






```
i.id = f.item_record_metadata_id
```

```
AND f.charge_code = '2'
```

```
ORDER BY COUNT(i.id) DESC
```



The screenshot shows the Minuteman Library Network website. The main navigation bar includes 'Our Libraries', 'Booklists', 'Services', 'About', 'Help Center', and 'My Account'. Below the navigation bar are several filter buttons: 'New & Bestsellers', 'Award Winners', 'Kids & Teens', 'Local Interest', 'Audio & Video', 'Recommended Reads', and 'Monthly Spotlight'. The main content area is titled 'Books You Can't Put Down' and features a table of frequently overdue books. The table has columns for 'Title', 'Author', and 'Cover'. The books listed are:

Title	Author	Cover
All the light we cannot see : a novel	Anthony Doerr	
The complete Peanuts	Charles M Schulz	
Crazy rich Asians	Kevin Kwan	
Americanah	Chimamanda Ngozi Adichie	
Little fires everywhere	Celeste Ng	



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Just Returned

JOIN

sierra_view.circ_trans c

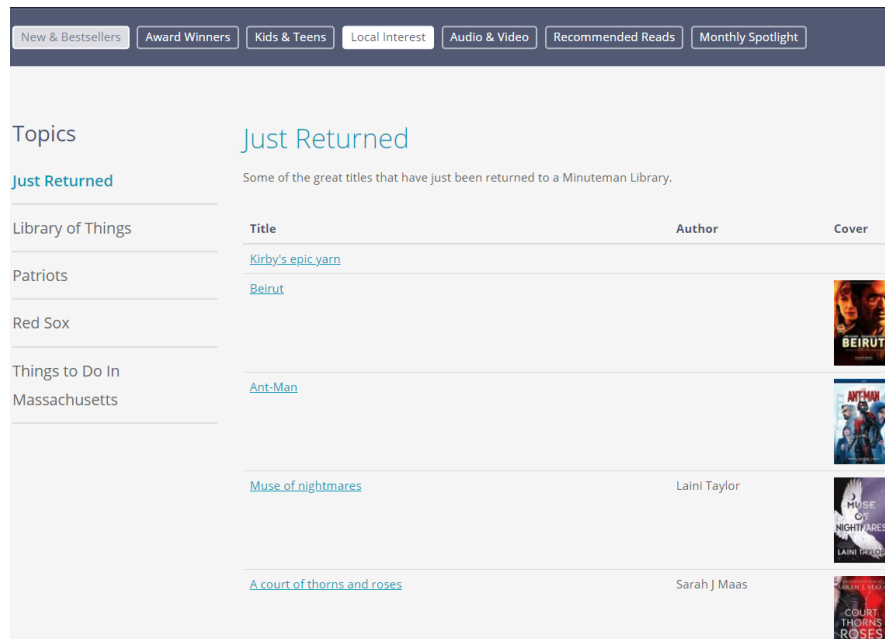
ON





b.bib_record_id = c.bib_record_id

AND c.op_code = 'i'

AND c.transaction_gmt >
(LOCALTIMESTAMP – INTERVAL
'1 day')

ORDER BY c.transaction_gmt
DESC



Library of Things	Title	Author	Cover
Patriots	Kirby's epic yarn		
Red Sox	Beirut		
Things to Do In Massachusetts	Ant-Man		
	Muse of nightmares	Laini Taylor	
	A court of thorns and roses	Sarah J Maas	

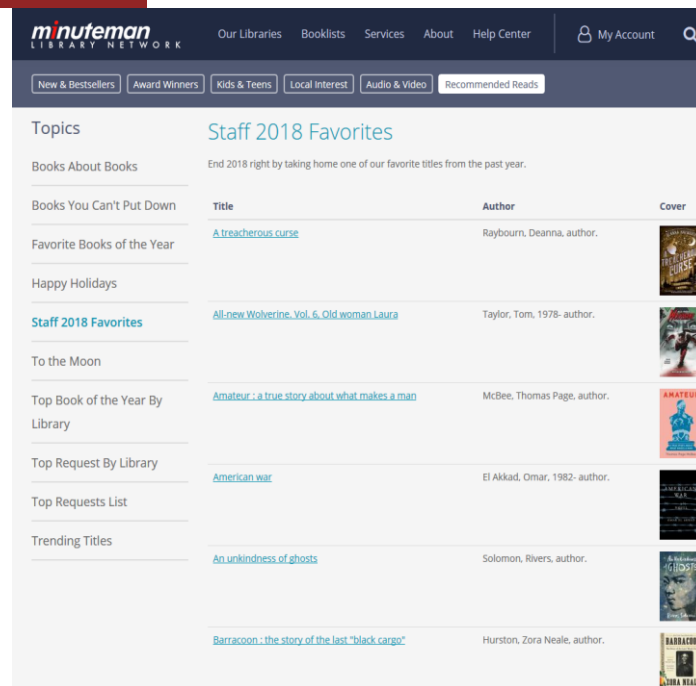


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Lazy Curation

- Curated list without all the data entry
- Requires known record numbers
- Query gathers title, author, Cover image and Encore link
- Uses **RANDOM** and **LIMIT** to give appearance of regular updates
 - Each day query runs to produce a random subset of included records



The screenshot shows the Minuteman Library Network website. The header includes the logo and navigation links: Our Libraries, Booklists, Services, About, Help Center, and My Account. Below the header is a menu with categories: New & Bestsellers, Award Winners, Kids & Teens, Local Interest, Audio & Video, and Recommended Reads. The main content area is titled 'Staff 2018 Favorites' and includes a sub-header 'End 2018 right by taking home one of our favorite titles from the past year.' Below this is a table with columns for Title, Author, and Cover. The table lists several books with their titles, authors, and cover images.

Title	Author	Cover
A treacherous curse	Raybourn, Deanna, author.	
All-new Wolverine, Vol. 6, Old woman Laura	Taylor, Tom, 1978- author.	
Amateur: a true story about what makes a man	McBee, Thomas Page, author.	
American war	El Akkad, Omar, 1982- author.	
An unkindness of ghosts	Solomon, Rivers, author.	
Barracoon: the story of the last "black cargo"	Hurston, Zora Neale, author.	

Lazy Curation Query

JOIN

sierra_view.bib_view v

ON b.bib_record_id = v.id

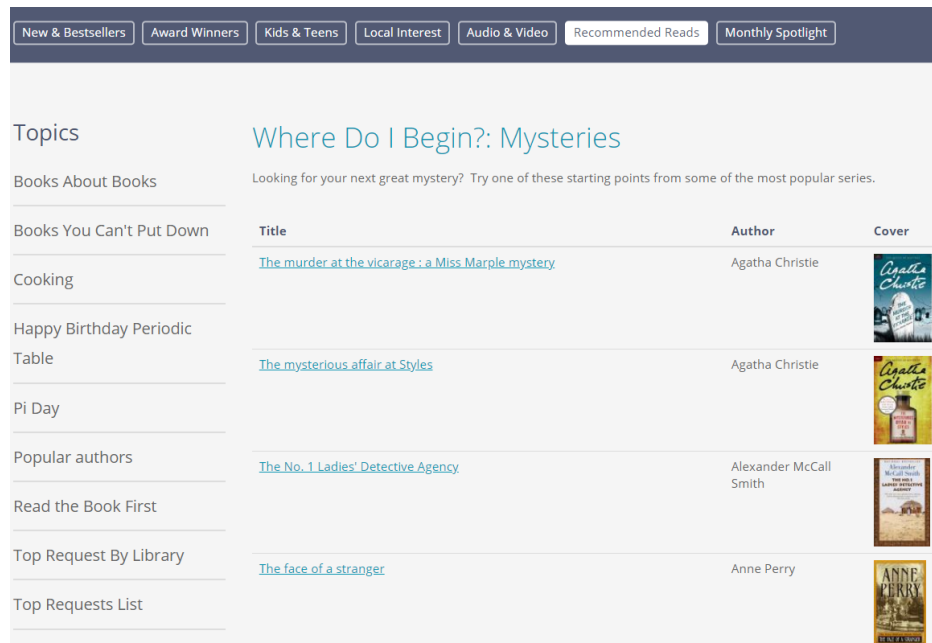
AND v.record_num IN

('record1','record2','record3'...'record50')





GROUP BY 1,2,3

ORDER BY RANDOM()

LIMIT 25



The screenshot shows a library website interface. At the top, there are navigation tabs: 'New & Bestsellers', 'Award Winners', 'Kids & Teens', 'Local Interest', 'Audio & Video', 'Recommended Reads', and 'Monthly Spotlight'. The main content area is titled 'Where Do I Begin?: Mysteries' and includes the text 'Looking for your next great mystery? Try one of these starting points from some of the most popular series.' Below this is a table with three columns: 'Title', 'Author', and 'Cover'. The table lists three books: 'The murder at the vicarage : a Miss Marple mystery' by Agatha Christie, 'The mysterious affair at Styles' by Agatha Christie, and 'The No. 1 Ladies' Detective Agency' by Alexander McCall Smith. A fourth book, 'The face of a stranger' by Anne Perry, is partially visible at the bottom of the table.

Title	Author	Cover
The murder at the vicarage : a Miss Marple mystery	Agatha Christie	
The mysterious affair at Styles	Agatha Christie	
The No. 1 Ladies' Detective Agency	Alexander McCall Smith	
The face of a stranger	Anne Perry	

Read the Book First

v.record_num IN (

--FILMS

--Into the Spiderverse

'3479082',

--If Beale Street Could Talk

'3779420',

--TV

--Good Omens...)

Title	Author	Cover
Scary stories to tell in the dark	Alvin Schwartz	
Good omens: the nice and accurate prophecies of Agnes Nutter, witch	Neil Gaiman	
X-Men: The Dark Phoenix saga	Chris Claremont	
The perfectionists	Sara Shepard	

Topical

- Query framework for quickly building subject based lists
- Avoid labor of curated lists
- Require testing to ensure expected results
- Length of time posted will vary
 - Permanent (Things to Do In Massachusetts)
 - Annual (Pride Month, NaNoWriMo, Halloween)
 - “One-offs” (celebrate Victoria’s 200th birthday)

Books About Books

JOIN

```
sierra_view.phrase_entry d
```

ON

```
b.bib_record_id = d.record_id
```

```
AND d.varfield_type_code = 'd'
```

```
AND (REPLACE(d.index_entry, ' ',
```

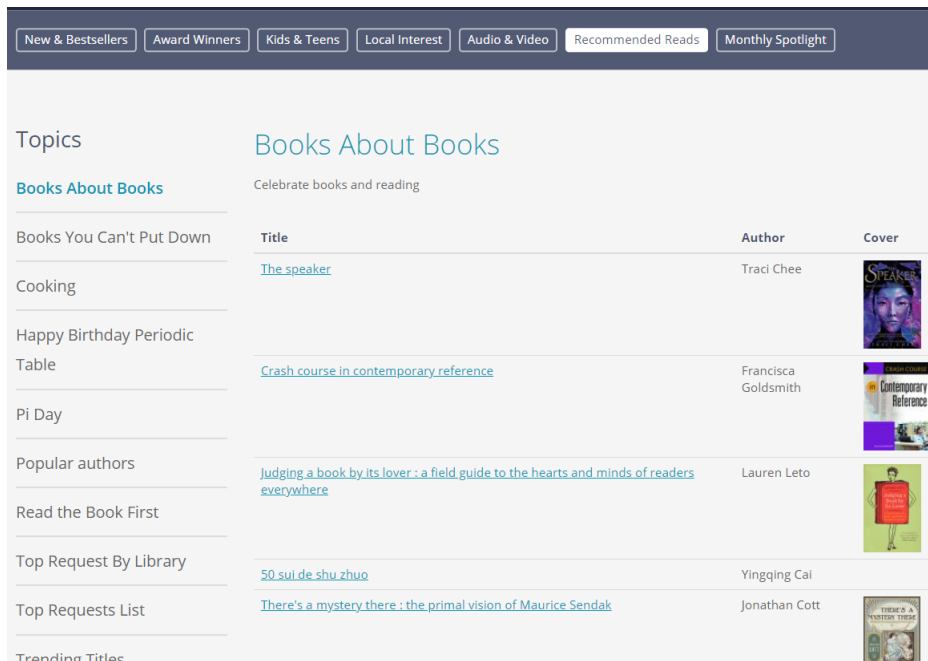
```
')) LIKE '%booksandreading%' OR
```

```
REPLACE(d.index_entry, ' ', ''
```






```
LIKE '%bestbooks%' OR
```

```
REPLACE(d.index_entry, ' ', ''
```

```
LIKE '%libraries%')
```



The screenshot shows a library website interface. At the top, there are navigation tabs: 'New & Bestsellers', 'Award Winners', 'Kids & Teens', 'Local Interest', 'Audio & Video', 'Recommended Reads', and 'Monthly Spotlight'. The main content area is titled 'Books About Books' and includes the subtitle 'Celebrate books and reading'. Below this is a table with columns for 'Title', 'Author', and 'Cover'. The table lists several books:

Title	Author	Cover
The speaker	Traci Chee	
Crash course in contemporary reference	Francisca Goldsmith	
Judging a book by its lover: a field guide to the hearts and minds of readers everywhere	Lauren Leto	
50 sui de shu zhuo	Yingqing Cai	
There's a mystery there: the primal vision of Maurice Sendak	Jonathan Cott	



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Parsing Subjects

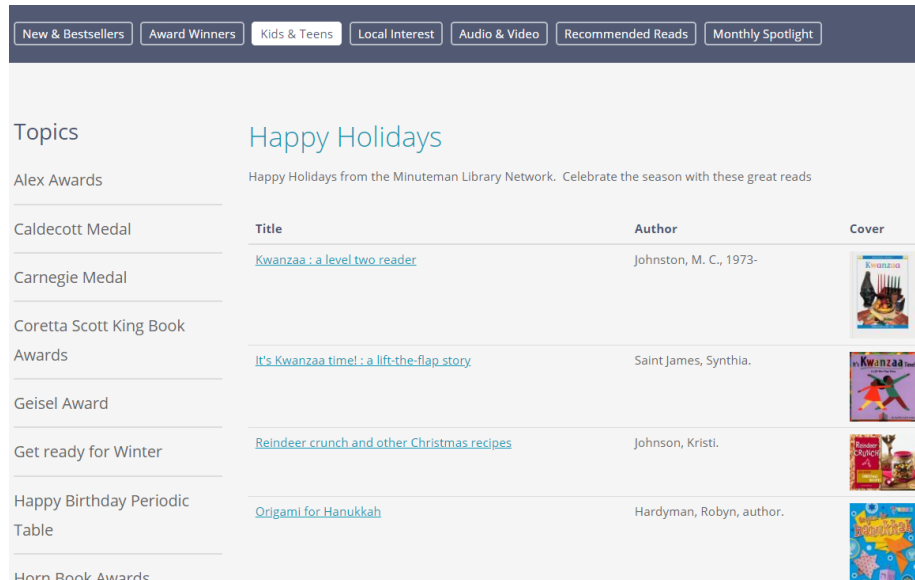
- REPLACE(d.index_entry, ' ', '')
LIKE '%booksandreading%'
- REPLACE() function in this instance is used to remove all spaces
- Like is used for simple string pattern matching
- % = wildcard
- Can also use regular expressions

index_entry	
character varying(512)	
childbirth england london history	20th century
east end london england social conditions	20th century
england childbirth london history	20th century
england midwives london	
brothers and sisters juvenile fiction	
evacuation of civilians world war	1939 1945 great britain juvenile fiction
george vi	1936 1952 great britain history juvenile fiction
great britain history george vi	1936 1952 juvenile fiction
great britain world war	1939 1945 evacuation of civilians juvenile fiction
historical fiction	
people with disabilities juvenile fiction	
war stories	
world war	1939 1945 evacuation of civilians great britain juvenile fiction
chinese essays	21st century
comedy films	
dark comedy films	
domestic drama	
families drama	
feature films	
male friendship drama	
picture books	
picture books for children	
play juvenile fiction	
stories in rhyme	
tiger cubs juvenile fiction	







Happy Holidays

```
(SELECT * FROM  
(SELECT...  
REPLACE(d.index_entry, ' ', ') LIKE  
'%hanukkah%'...) a  
ORDER BY RANDOM()  
LIMIT 15)  
UNION  
(SELECT * FROM (SELECT...  
REPLACE(d.index_entry, ' ', ') LIKE  
'%kwanza%'...) b  
ORDER BY RANDOM()  
LIMIT 10)...
```



The screenshot shows a library website interface. At the top, there are navigation tabs: "New & Bestsellers", "Award Winners", "Kids & Teens", "Local Interest", "Audio & Video", "Recommended Reads", and "Monthly Spotlight". The main content area is titled "Happy Holidays" and includes a sub-header "Happy Holidays from the Minuteman Library Network. Celebrate the season with these great reads". Below this is a table listing various award categories and their corresponding book titles, authors, and cover images.

	Title	Author	Cover
Alex Awards			
Caldecott Medal			
Carnegie Medal			
Coretta Scott King Book Awards	Kwanzaa : a level two reader	Johnston, M. C., 1973-	
Geisel Award	It's Kwanzaa time! : a lift-the-flap story	Saint James, Synthia.	
Get ready for Winter	Reindeer crunch and other Christmas recipes	Johnson, Kristi.	
Happy Birthday Periodic Table	Origami for Hanukkah	Hardyman, Robyn, author.	
Horn Book Awards			



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Civil Rights

- Test your results
- First run through of civil rights list returned Progressive racism : the collected conservative writings of David Horowitz

WHERE

`id2reckey(b.bib_record_id) != 'b3534522'`

Title	Author	Cover
Freedom summer : the savage season that made Mississippi burn and made America a democracy	Watson, Bruce, 1953-	
The informant : the FBI, the Ku Klux Klan, and the murder of Viola Liuzzo	May, Gary, 1944-	
A man of letters	Sowell, Thomas, 1930-	
Bayard Rustin : troubles I've seen : a biography	Anderson, Jervis.	



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Top Request By Library


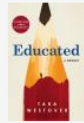
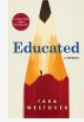

New & Bestsellers Award Winners Kids & Teens Local Interest Audio & Video Recommended Reads Monthly Spotlight

Topics

- Black History Month
- Books About Books
- Books You Can't Put Down
- Cooking
- Happy Birthday Periodic Table
- Pi Day
- Popular authors
- Read the Book First

Top Request By Library

The most requested book at each library in the Minuteman Library Network

Location	Title	Author	Cover
ACTON	Becoming	Michelle Obama	
ARLINGTON	Educated : a memoir	Tara Westover	
ARLINGTON/FOX	Educated : a memoir	Tara Westover	
ASHLAND	Where the crawdads sing	Delia Owens	



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Popular Authors

Topics

Black History Month

Books About Books

Books You Can't Put Down

Cooking

Happy Birthday Periodic Table

Pi Day

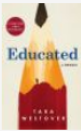



Popular authors

Read the Book First

Top Request By Library

Popular authors

The 100 most popular authors in Minuteman based on current requests

Rank	Title	Cover
1	Tara Westover	
2	Stephanie Land	
3	Alex Michaelides	
4	Andrew McCabe	



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Automation

- We use automated cron in Drupal along with custom development
- Formerly used Python scripts based on Gem Stone-Logan's 2018 presentation "Automating Reports with Python"
- <https://www.gemstonelogan.com/presentations/IUG2018AutomatingPython.pptx>
- Python makes it easy to generate HTML tables (or csv or Excel files)

CSV Generator

```
import psycopg2
import csv
from datetime import date

csvFile = 'NewBookList.csv'.format(date.today())
conn = psycopg2.connect("dbname=" user=" host=" port='1032' password=" sslmode='require'")

cursor = conn.cursor()
cursor.execute(open("new books list.sql","r").read())
rows = cursor.fetchall()
conn.close()

with open(csvFile,'w', encoding='utf-8') as tempFile:
    myFile = csv.writer(tempFile, delimiter='|')
    myFile.writerows(rows)
tempFile.close()
```



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HTML Table Generator

```
import psycopg2
import os
import io

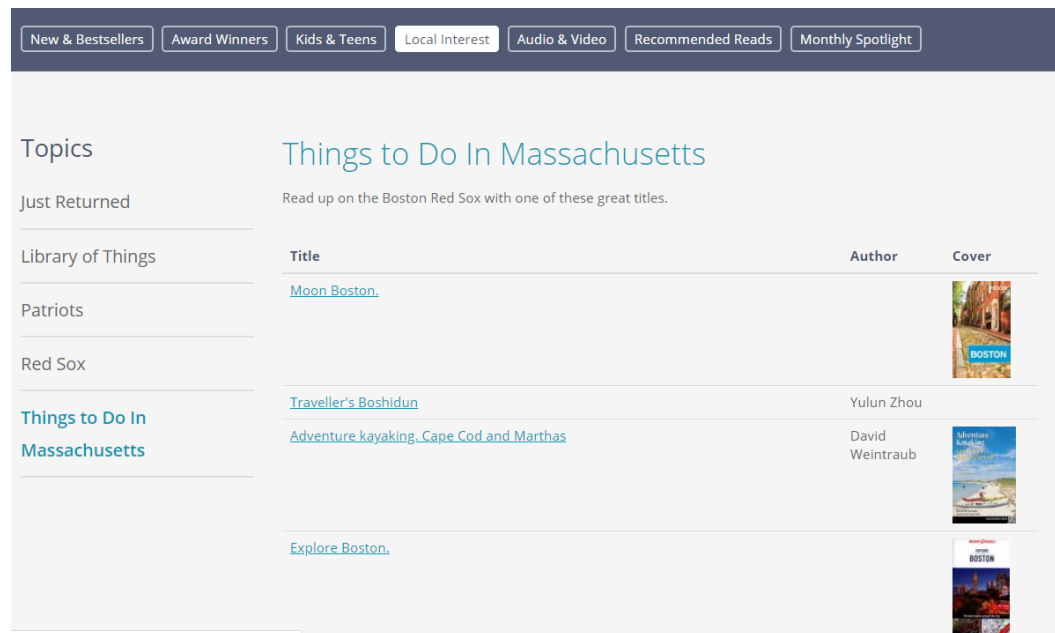
conn = psycopg2.connect("dbname=" user=" host=" port='1032' password=" sslmode='require'")

cursor = conn.cursor()
cursor.execute(open("new books list.sql", "r").read())
rows = cursor.fetchall()
conn.close()




with io.open('DemoNewBooks.htm', 'w', encoding='utf-8') as f:
    f.write('[HTML for your page]<table border="1" cellpadding="5" align="center"><tr
    align="left"><td>Title</td><td>Author</td></tr>')
    for rownum, row in enumerate(rows):
        f.write("<td><a href=" + row[0] + ">" + row[1] + "</a></td><td>" + row[2] + "</td></tr>")
    f.write("</table>[Remaining HTML for your page]</body></html>")
f.close()
```

Failures Along the Way

- Local Interest Category
- Many topical lists fail
- Music lists
- Popularity by language
- Election Day
- Booklist importer
- Adjusted all lists 3 times while crafting this presentation



The screenshot shows a website interface with a dark blue header containing navigation buttons: 'New & Bestsellers', 'Award Winners', 'Kids & Teens', 'Local Interest', 'Audio & Video', 'Recommended Reads', and 'Monthly Spotlight'. The 'Local Interest' button is selected. Below the header, there is a sidebar on the left with a list of categories: 'Topics', 'Just Returned', 'Library of Things', 'Patriots', 'Red Sox', and 'Things to Do In Massachusetts' (which is highlighted in blue). The main content area is titled 'Things to Do In Massachusetts' and includes the text 'Read up on the Boston Red Sox with one of these great titles.' Below this is a table with three columns: 'Title', 'Author', and 'Cover'. The table lists three books: 'Moon Boston.' by Yulun Zhou, 'Adventure kayaking, Cape Cod and Marthas' by David Weintraub, and 'Explore Boston.' by Yulun Zhou. Each book entry includes a small thumbnail image of the book cover.

Title	Author	Cover
Moon Boston.	Yulun Zhou	
Adventure kayaking, Cape Cod and Marthas	David Weintraub	
Explore Boston.	Yulun Zhou	

Successes

- Booklist Unique Page views increased 60%
 - Q1 2018 v 2019
- Average Time On Page Doubled
- Patrons explore further
 - Views of 2nd most visited page tripled
 - 3rd most quadrupled

Conclusion

- Book Curation is a key service that patrons will seek out
- Lists should aim to provide diverse contents with regular updates
- SQL can help reduce staff time required to produce these lists

- For even more on SQL please see the slides from the presentation How to SQL by Phil Shirley, Ray Voelker & Jeremy Goldstein

Questions?

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@jmgold

<https://github.com/jmgold>