

# Extraction Rule Creation by Text Snippet Examples

David W. Embley (Brigham Young University & FamilySearch)

George Nagy (Rensselaer Polytechnic Institute)





# Pattern Examples

## PARISH OF KILBARCHAN.

### REGISTER OF MARRIAGES, 1649-1772, AND BAPTISMS, 1651-1769.

*The dates, unless otherwise stated, are those of Baptisms.  
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A

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LENA ACCETTE 405 Central Ave physician Dr Mills religion Catholic  
War record: enlisted 21 Feb 1918 disch 19 Aug 1919 World War I Canadian  
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## THE ELY ANCESTRY.

419

SEVENTH GENERATION.

241213. Mary Eliza Warner, b. 1826, dau. of Samuel Selden Warner  
and Azubah Tully; m. 1850, Joel M. Gloyd (who was connected with  
Chief Justice Waite's family).

243311. Abigail Huntington Lathrop (widow), Boonton, N. J., b.  
1810, dau. of Mary Ely and Gerard Lathrop; m. 1835, Donald McKen-  
zie, West Indies, who was b. 1812, d. 1839.

(The widow is unable to give the names of her husband's parents.)  
Their children:

1. Mary Ely, b. 1836, d. 1859.
2. Gerard Lathrop, b. 1838.

243312. William Gerard Lathrop, Boonton, N. J., b. 1812, d. 1882,  
son of Mary Ely and Gerard Lathrop; m. 1837, Charlotte Brackett  
Jennings, New York City, who was b. 1818, dau. of Nathan Tilestone  
Jennings and Maria Miller. Their children:

1. Maria Jennings, b. 1838, d. 1840.
2. William Gerard, b. 1840.
3. Donald McKenzie, b. 1840, d. 1843. } Twins.
4. Anna Margaretta, b. 1843.
5. Anna Catherine, b. 1845.

243314. Charles Christopher Lathrop, N. Y. City, b. 1817, d. 1865,  
son of Mary Ely and Gerard Lathrop; m. 1856, Mary Augusta Andruss,  
992 Broad St., Newark, N. J., who was b. 1825, dau. of Judge Caleb  
Halstead Andruss and Emma Sutherland Goble. Mrs. Lathrop died  
at her home, 992 Broad St., Newark, N. J., Friday morning, Nov. 4,  
1898. The funeral services were held at her residence on Monday, Nov.  
7, 1898, at half-past two o'clock P. M. Their children:

1. Charles Halstead, b. 1857, d. 1861.
2. William Gerard, b. 1858, d. 1861.
3. Theodore Andruss, b. 1860.
4. Emma Goble, b. 1862.

Miss Emma Goble Lathrop, official historian of the New York Chapter of the  
Daughters of the American Revolution, is one of the youngest members to hold  
office, but one whose intelligence and capability qualify her for such distinction.  
Miss Lathrop is not without experience; in her present home and native city, New-  
ark, N. J., she has filled the positions of secretary and treasurer to the Girls'  
Friendly Society for nine years, secretary and president of the Woman's Auxiliary  
of Trinity Church Parish, treasurer of the St. Catherine's Guild of St. Barnabas  
Hospital, and manager of several of Newark's charitable institutions which her  
grandparents were instrumental in founding. Miss Lathrop traces her lineage  
back through many generations of famous progenitors on both sides. Her maternal  
ancestors were among the early settlers of New Jersey, among them John Ogden,  
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Couple

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Couple record

Name: ^ Adam, James,  
SpouseName: and Jane Lyle  
MarriageDate: p. 2 Aug. 1746 \$

Name: ^ Cap , Cap ,  
SpouseName: and Cap Cap  
MarriageDate: p. Num Cap . Num \$

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Person record

Name: ^James, born

Name: ^Janet, 24

ChristeningDate: , 24 Nov. 1754. \$

BirthDate: born 24 Oct. 1758. \$

Name: ^ Cap , born

Name: ^ Cap , Num

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Family record

Parent1: ^ Adam, James,

Parent2: and Jane Lyle

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Parent1: ^ Cap , Cap ,

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# Step 1: Specify the Records

COMET Home Form Builder Logout

Person Information Add a Form

Person >

Name \* >

GenderDesignator >

BirthDate >

BirthPlace >

ChristeningDate >

ChristeningPlace >

DeathDate >

DeathPlace >

BurialDate >

BurialPlace >

Couple >

Name \* >

SpouseName >	MarriageDate >	MarriagePlace >
...	...	...

Family >

Parent1 \* >

Parent2 >

Child >
...

# Step 2: Create Rules

Name *	GenderDesignator	BirthDate	BirthPlace	ChristeningDate	Ch
James				15 Dec. 1672	

James, 15 Dec. 1672. ELINE

Run Save

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Isobell				23 Mar. 1655	

*The dates, unless otherwise stated, are those of Baptisms.  
p. means proclaimed; m. married.*

Adam, James, and Jannet Bannatyne, in Hair Lawis, 1676  
 James, 15 Dec. 1672.  
 Robert, 15 Oct. 1676.  
 Margaret, 6 April 1679.

Adam, James, in Kilbarchan, and Jane Lyle p. 2 Aug. 1746  
 William, born 23 June 1747.  
 James, born 19 June 1749.  
 Mary, born 5 Jan. 1752.  
 Janet, 24 Nov. 1754.  
 William, born 10 Dec. 1755.  
 James, born 24 Oct. 1758.  
 Isobel, born 12 Nov. 1761.

Adam, James, and Janet Aitken p. 13 July 1751  
 Adam, James, in Coalboag, and Margaret Aitken  
 Mathew, born 29 June 1752.  
 Janet, born 26 Nov. 1754.  
 Elizabeth, born 15 April 1756.  
 William, 24 Oct. 1760.

Adam, John, in Penall  
 Joan, 25 April 1651.  
 John, 30 May 1652.  
 Isobell, 23 Mar. 1655.

Adam, John, par. of Lochwinnoch  
 Marion, 24 Jan. 1662.

Adam, John, and Jean Reid  
 John, 14 Nov. 1673.

Adam, John, par., and Agnes Andro in Killellan, in Clavens 1691  
 m. Killellan 23 Jan. 1679  
 Janet, 8 Nov. 1691.  
 Mary, 2 April 1693.

Adam, John, and Janet King, in Kilmacolm  
 John, June 1683.

Adam, John, in Kirkcoun, and Margaret How  
 William, 24 Nov. 1689.  
 Jean, 13 Mar. 1692.  
 Margaret, 8 June 1694.

Adam, John, in Barr, and Agnes Cochran  
 William, 5 May 1703.  
 Elizabeth, 24 June 1705.  
 Robert, 3 Oct. 1709.

# Step 3: Process Candidate Rules

1523	Name	. 1753 Brown, <b>William</b> , in Kilbarchan, and Sarah	>	Make	Dismiss
48	Name	Feb. 1759. <b>Brune</b> , William Jeane,	>	Make	Dismiss
19	Name	Oct. 1752. <b>Napier</b> and William, <b>born</b> 8 Feb	>	Make	Dismiss
18	Name	Robert, in Hilhead <b>James</b> (daughter), 8 June	>	Make	Dismiss

John, 16 Feb. 1690.  
 Brown, John, and Jean Cumming, in Kirkcoun m. 25 Dec. 1691  
 Jean, 3 Sept. 1693.  
 Brown, John, and Jean Wilson, in Meiklefultoun  
 Margaret, 28 July 1698.  
 Brown, John, in Kilbarchan, and Jane M'Dowall p. 13 Nov. 1761  
 Jane, born 3 Mar. 1764.  
 Brown, Matthew, par. of Killellan, and Elizabeth Kibble, par. p. 21 June 1765  
 Broune, Robert, in Hilhead  
**James** (daughter), 8 June 1655.  
 Broune, William, in Fultoun, 1656 in Little Fultoun  
 —, son, 6 May 1655.  
 James, 18 May 1656.  
 Agnes, 15 Jan. 1658.  
 Robert, 30 Jan. 1659.  
 Katherine, 26 Feb. 1660.  
 Agnes, his daughter, gotten in adultery with Jeane Adam,  
 presented by Robert Adam, in Clippings, 18 May 1655.  
 Broune, William, and Margaret Henderson, par. of Paisley,  
 in Mains of Houstoun m. 10 Nov. 1676  
 William, 26 Aug. 1677.  
 Margaret, 16 April 1680.  
 Marie, 22 June 1689.  
 Brown, William, and Janet Cochrane, in Little Fultoun m. 1 June 1682  
 Robert, 6 June 1690.  
 Alexander, 18 May 1693.  
 Alexander, 27 May 1694.  
 Elizabeth, 27 Sept. 1696.  
 Hugh, 20 Jan. 1698.  
 Brown, William, elder, in Littlefultoun  
 Alexander, 3 Jan. 1692.  
 Brown, William, in Kirkcoun, and Isobel Allason  
 Anna, 10 Nov. 1695.  
 William, 26 Dec. 1697.  
 Martha, 2 Feb. 1701.  
 May, 23 May 1706.  
 Brown, William, par., and Agnes M'Gibb, in Glasgow p. 25 Aug. 1753  
 Brown, **William**, in Kilbarchan, and Sarah Douglas  
 Mary, born 11 Mar. 1765.  
 Bruce, John, at Craigends, and Elizabeth Martin  
 William, born 17 Feb. 1759.  
**Brune**, William  
 Jeane, 1 July 1653.

# Step 3: Process Candidate Rules

Name *	GenderDesignator	BirthDate	BirthPlace	ChristeningDate	Ch
James					

SLINE James (daughter), 8	Run	Save
---------------------------	-----	------

Person

Jean, 3 Sept. 1693.  
Brown, John, and Jean Wilson, in Meiklefultoun  
Margaret, 28 July 1698.  
Brown, John, in Kilbarchan, and Jane M'Dowall p. 13 Nov. 1761  
Jane, born 3 Mar. 1764.  
Brown, Matthew, par. of Killellan, and Elizabeth Kibble, par. p. 21 June 1765  
Broune, Robert, in Hilhead  
James (daughter), 8 June 1655.  
Broune, William, in Fultoun, 1656 in Little Fultoun  
—, son, 6 May 1655.  
James, 18 May 1656.  
Agnes, 15 Jan. 1658.  
Robert, 30 Jan. 1659.  
Katherine, 26 Feb. 1660.  
Agnes, his daughter, gotten in adultery with Jeane Adam,  
presented by Robert Adam, in Clippings, 18 May 1655.  
Broune, William, and Margaret Henderson, par. of Paisley,  
in Mains of Houstoun m. 10 Nov. 1676  
William, 26 Aug. 1677.  
Margaret, 16 April 1680.  
Marie, 22 June 1689.  
Brown, William, and Janet Cochrane, in Little Fultoun m. 1 June 1682  
Robert, 6 June 1690.  
Alexander, 18 May 1693.  
Alexander, 27 May 1694.  
Elizabeth, 27 Sept. 1696.  
Hugh, 20 Jan. 1698.  
Brown, William, elder, in Littlefultoun  
Alexander, 3 Jan. 1692.  
Brown, William, in Kirktown, and Isobel Allason  
Anna, 10 Nov. 1695.  
William, 26 Dec. 1697.  
Martha, 2 Feb. 1701.  
May, 23 May 1706.  
Brown, William, par., and Agnes M'Gibb, in Glasgow p. 25 Aug. 1753  
Brown, William, in Kilbarchan, and Sarah Douglas  
Mary, born 11 Mar. 1765.  
Bruce, John, at Craigends, and Elizabeth Martin  
William, born 17 Feb. 1759.  
Brune, William  
Jeane, 1 July 1653.



# Step 3: Process Candidate Rules

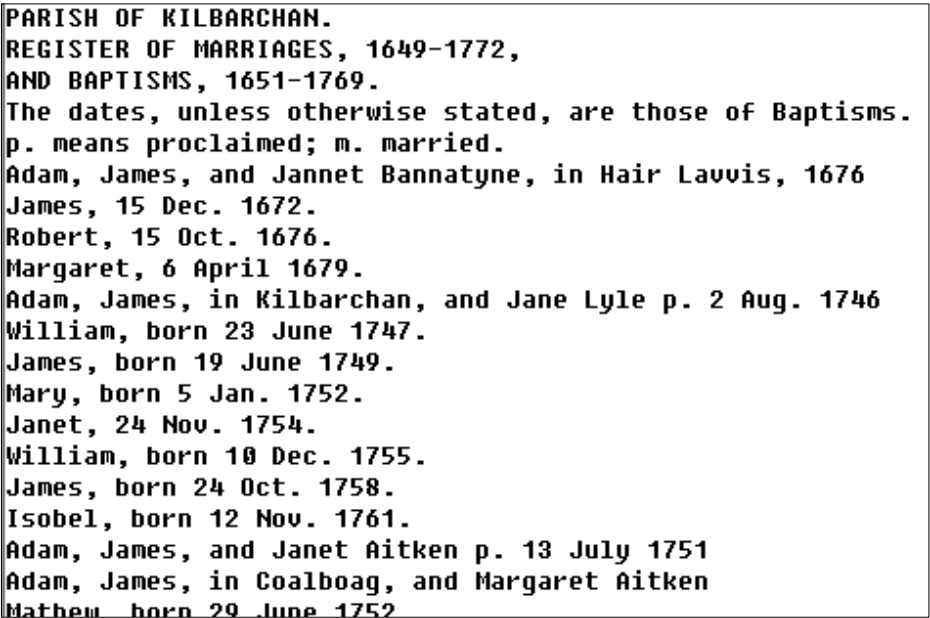
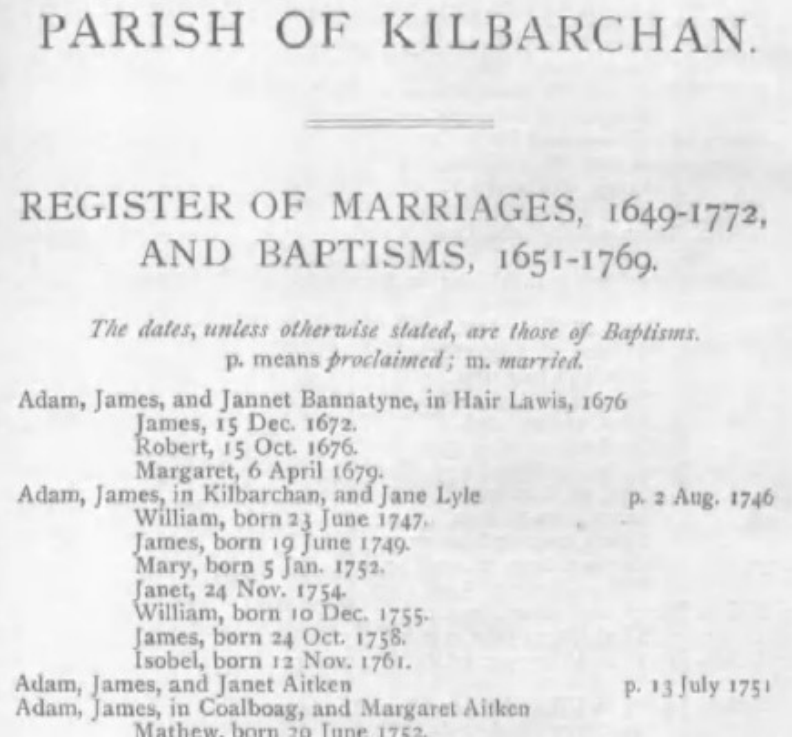
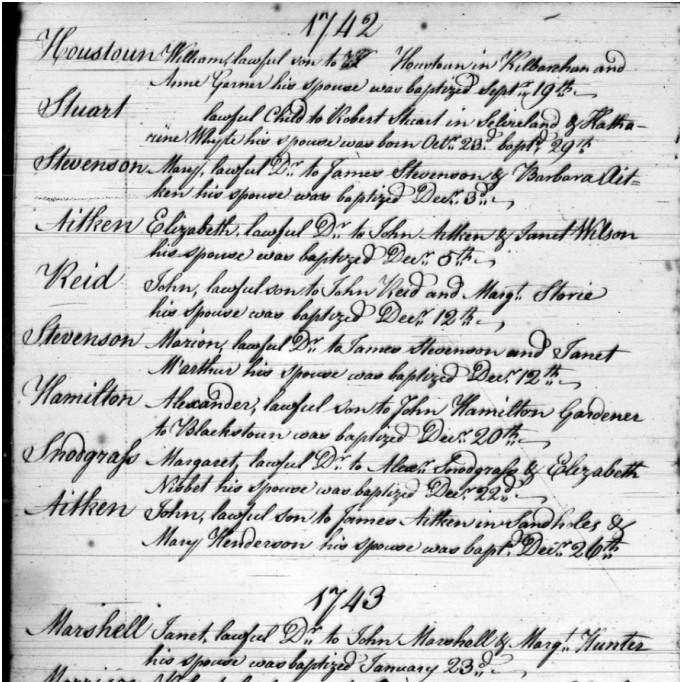
19	Name	Oct. 1752. Napier and William, born 8 Feb	>	Make	Dismiss
----	------	---	---	------	---------

John, born 20 Sept. 1765.  
Inglis, John, in Kilbarchan, and Janet Lang, 1768 in Muir of Waterstoun p. 7 May 1763  
Janet, born 13 Aug. 1763.  
Janet, born 30 May 1766.  
John, born 2 Oct. 1768.  
Inglis, John, in Quarreltoun, Abbey par. of Paisley  
Elizabeth, born 7 June 1768.  
Inglis, William, and Anne Colquhoun  
Patrick, 4 Jan. 1745.  
Alexander, 20 Mar. 1748.  
Inglis, William, and Lillias Campbell  
William, born 17 April 1762.  
Inglis, William, in Kilbarchan, and Janet Cameron p. 10 Sept. 1768  
Janet, born 25 Nov. 1769.  
Inglis, William, in Abbey par. of Paisley, and Barbara Orr  
p. 23 Nov. 1770  
Jack, Matthew, par., and Agnes Whyte, par. of Houstoun p. 30 Mar. 1764  
Jackson, Andrew, in Mains of Blackstoun, and Agnes Wilson  
James, born 7 June 1750.  
James, born 22 Oct. 1752.  
Napier and William, born 6 Feb. 1755.  
Napier, born 6 May 1758.  
Jackson, James, and Margaret Love m. 8 Dec. 1659  
Jackson, James, in Clochodrick  
Issabell, 10 Sept. 1660.  
Jackson, James, in Auchnames, and Mary Love  
—, 16 April 1675.  
Jackson, Robert, and Elizabeth Riddell  
Patrick, 1 Aug. 1701.  
Jackson, Robert, in Hutthead, and Isobel King  
James, 20 April 1705.  
Jackson, Robert, and Janet Speir p. 13 Aug. 1763  
Jackson, William, in Cartside, and Marion Hill  
William, 3 Jan. 1706.  
Jameson, Hugh, and Janet Ewen, in Miniabroch, in Lochwinnoch par.  
Isabell, 5 July 1691.  
Jamieson, James, in Corbar, and Mary Jackson  
Robert, born 24 Oct. 1767.  
Jameson, John, and Jonet Brydon, in Lochwinnoch  
Agnes, 16 Mar. 1673.  
Jameson, John, and Issabell Barclay, in Lochwinnoch  
Hugh, 9 Feb. 1679.  
Jamieson, John, in Burnside of Ranfurly, and Agnes Lang

# GreenQQ (current implementation)

- Green: tools that improve with use
- Q1: Quick
  - Quick to learn to use
  - Quick to execute
- Q2: Quality
  - Quality rules
  - Quality results
- GreenQQ characterization: record-based NER

# Demo (input doc's)



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# Demo (I/O)

## Records

### Documents library

- KilbarchanParish
- Name
- KilbarchanParish.001.txt
- KilbarchanParish.002.txt
- KilbarchanParish.003.txt
- KilbarchanParish.004.txt
- KilbarchanParish.005.txt
- KilbarchanParish.006.txt
- ...
- KilbarchanParish.142.txt
- KilbarchanParish.143.txt

### Input

	A	B	C	D	E
1					
2	LIT	born			
3					
4	EX	Name	SLINE William, born	William	
5	EX	BirthDate	born 23 June 1747. ELINE	23 June 1747	
6					
7					

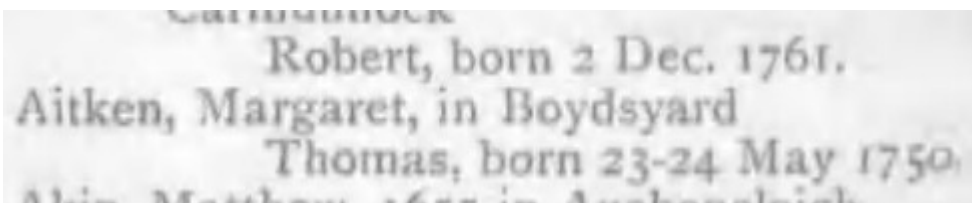
### Output

FamilyMain Elapsed time = 2.64 seconds

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#### Templates:

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1,1118,['Name'],,['SLINE', 'William', ',', 'born']
2,959,['BirthDate'],,['born', '23', 'June', '1747', '.', 'ELINE']
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Records

Text Snippet Coordinates

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Name,4,12,1,1,4,James,BirthDate,4,12,4,2,6,19,June,1749
Name,4,13,1,1,4,Mary,BirthDate,4,13,4,2,6,5,Jan.,1752
Name,4,15,1,1,4,William,BirthDate,4,15,4,2,6,10,Dec.,1755
Name,4,16,1,1,4,James,BirthDate,4,16,4,2,6,24,Oct.,1758
Name,4,17,1,1,4,Isobel,BirthDate,4,17,4,2,6,12,Nov.,1761
Name,4,20,1,1,4,Mathew,BirthDate,4,20,4,2,6,29,June,1752
Name,4,21,1,1,4,Janet,BirthDate,4,21,4,2,6,26,Nov.,1754
Name,4,22,1,1,4,Elizabeth,BirthDate,4,22,4,2,6,15,April,1756
Name,5,1763
Name,5,1765
Name,5,20,1,1,4,JAMES,BirthDate,5,20,4,2,6,20,Sept.,1744
Name,5,29,1,1,4,Robert,BirthDate,5,29,4,2,6,12,May,1747
Name,5,30,1,1,4,Matthew,BirthDate,5,30,4,2,6,11,April,1749
Name,5,31,1,1,4,William,BirthDate,5,31,4,2,6,22,April,1756
Name,5,37,1,1,4,Jane,BirthDate,5,37,4,2,6,4,July,1755
Name,5,38,1,1,4,Margaret,BirthDate,5,38,4,2,6,9,Sept.,1757
Name,5,39,1,1,4,John,BirthDate,5,39,4,2,6,21,Oct.,1762
Name,5,40,1,1,4,James,BirthDate,5,40,4,2,6,26,Oct.,1764
Name,5,41,1,1,4,Janet,BirthDate,5,41,4,2,6,14,April,1768
Name,5,43,1,1,4,Mary,BirthDate,5,43,4,2,6,15,May,1758
Name,5,44,1,1,4,Christian,BirthDate,5,44,4,2,6,1,May,1760
Name,5,45,1,1,4,Janet,BirthDate,5,45,4,2,6,19,Jan.,1764
Name,5,46,1,1,4,Robert,BirthDate,5,46,4,2,6,28,May,1766
Name,5,47,1,1,4,Jane,BirthDate,5,47,4,2,6,28,Aug.,1768
Name,6,43,1,1,4,William,BirthDate,6,43,4,2,6,2,Nov.,1756
Name,6,46,1,1,4,Robert,BirthDate,6,46,4,2,6,2,Dec.,1761
Name,6,48,1,1,4,Thomas
Name,7,23,1,1,4,Mary,BirthDate,7,23,4,2,6,20,June,1755
Name,7,35,1,1,4,James,BirthDate,7,35,4,2,6,24,July,1759
```

# Demo (candidate rule generation)

SLINE Elizabeth , 24 June 1705 . ELINE

ChristeningDate

Name

SLINE Elizabeth , 24 June 1705 . ELINE

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y
1	LIT	born																							
2																									
3	EX	Name	SLINE Willi	William																					
4	EX	BirthDate	born 23 Ju	23 June 1747																					
5																									
6		New Examples constructed		Thu Feb 8 16:39:26 2018																					
7	EXX	3	5	0	Name	1525	Exam	SLINE Adam , James ,	ExOut:	means	proclai;	m.	marriec.	ELINE	SLINE	Adam ,	James ,	and	Jannet	Bannatyne					
8	EXX	3	43	0	Name	1059	Exam	SLINE Elizabeth ,	ExOut:	William ,	5 May	1703 .	ELINE	SLINE	Elizabeth ,	24 June	1705 .	ELINE							
9	EXX	123	46	3	Name	141	Exam	Alexander , and Elizabeth Black	ExOut:	Aug.	1689 .	ELINE	SLINE	Wyllie ,	Alexanc ,	and	Elizabeth	Black	p.	30	April				
10	EXX	9	38	0	Name	48	Exam	SLINE Allan , William ELINE	ExOut:	, born	Birt	BirthDa	BirthDe.	ELINE	SLINE	Allan ,	William	ELINE	SLINE	John ,					
11	EXX	28	44	0	Name	19	Exam	SLINE Elizabeth (	ExOut:	Climie ,	Ursu ,	in	Kilbarcha	ELINE	SLINE	Elizabeth (	natural	) ,	29	Dec.					
12	EXX	4	52	0	Name	19	Exam	SLINE James and	ExOut:	William ,	15 Oct.	1652 .	ELINE	SLINE	James and	William ,	9	April	1654						
13	EXX	64	38	7	Name	14	Exam	SLINE James and Elizabeth Helme	ExOut:	SLINE	Leag	Leha	in	Bui	side	and	Elizabeth	Helme	Abbey	ear					

EXFILE\_Thu\_Feb\_8\_16-39-26\_2018

SLINE Elizabeth ( natural ) , 29

Name





# “Gotchas”

- Document applicability
- Record identifiers
- Overlapping records
- OCR errors
- Ambiguity
- Boundary-crossing patterns
- Application tailoring

THE ELY ANCESTRY. 419  
SEVENTH GENERATION.

4121.3. Mary Eliza Warner, b. 1836, dau. of Samuel Solón Warner and Annick Terry, m. 1850, Joel M. Good (who was connected with Chief Justice Wake's family).

4121.4. Algual Huntington Lathrop (widow), Bloomington, N. J., b. 1810, dau. of Mary Ely and General Lathrop; m. 1835, Donald McKenric, West Indian, who was b. 1812, & 1839.  
(The widow is unable to give the names of her husband's parents.)  
Their children:  
1. Mary Ely, b. 1845, & 1846.  
2. Grand Lathrop, b. 1848.

4121.5. William General Lathrop, Bloomington, N. J., b. 1812, & 1861, son of Mary Ely and General Lathrop; m. 1837, Catharine Truxton Jennings, New York City, who was b. 1808, dau. of Nathan Tiltman Jennings and Maria Miller. Their children:  
1. Maria Jennings, b. 1838, & 1845.  
2. William General, b. 1840, & 1841.  
3. David McKenric, b. 1842, & 1843.  
4. Anna Margaret, b. 1845.  
5. Anna Catharine, b. 1845.

4121.6. Charles Christopher Lathrop, N. Y. City, b. 1817, & 1865, son of Mary Ely and General Lathrop; m. 1845, Mary Augusta Andrews, 992 Broad St., Newark, N. J., who was b. 1815, dau. of Judge Carlo Haines Andrews and Emma Sutherland Goble. Mrs. Lathrop died at her home, 992 Broad St., Newark, N. J., Friday morning, Nov. 4, 1898. The funeral services were held at her residence on Monday, Nov. 7, 1898, at half-past two o'clock P. M. Their children:  
1. Charles Richard, b. 1847, & 1894.  
2. William Edward, b. 1848, & 1895.  
3. Theodore Andrew, b. 1850, & 1896.

4121.7. Emma Goble, b. 1812.  
Miss Emma Goble Lathrop, official historian of the New York Chapter of the Daughters of the American Revolution, is one of the youngest members to hold office, but one whose intelligence and capability qualify her for such distinction. Mrs. Lathrop is not without experience in her present home and native city. Newark, N. J., she has filled the positions of secretary and treasurer in the Guild of the Daughters of the American Revolution, and president of the Newark Chapter of the Trinity Church Parish (successor of the St. Columba's Guild of St. Barbara Hospital) and manager of several of Newark's charitable institutions which her goodnature was instrumental in founding. Mrs. Lathrop traces her lineage back through many generations of famous progenitors on both sides. Her maternal ancestors were among the early settlers of New Jersey, among them John Ogden, who retained possession of the purchase of Elizabeth, and who in 1674 was

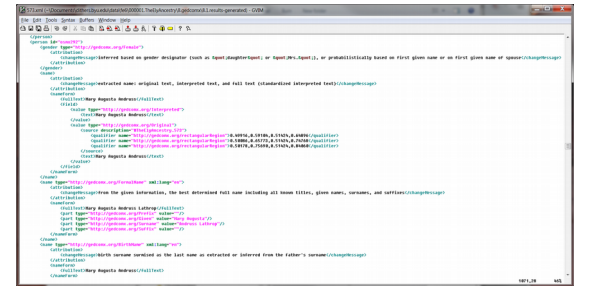
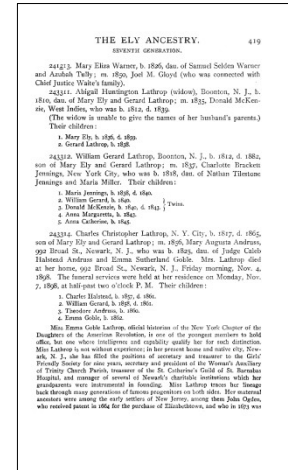


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4121.3. Mary Eliza Warner, b. 1836, dau. of Samuel Solón Warner and Annick Terry, m. 1850, Joel M. Good (who was connected with Chief Justice Wake's family).
4121.4. Algual Huntington Lathrop (widow), Bloomington, N. J., b. 1810, dau. of Mary Ely and General Lathrop; m. 1835, Donald McKenric, West Indian, who was b. 1812, & 1839.
(The widow is unable to give the names of her husband's parents.)
Their children:
1. Mary Ely, b. 1845, & 1846.
2. Grand Lathrop, b. 1848.
4121.5. William General Lathrop, Bloomington, N. J., b. 1812, & 1861, son of Mary Ely and General Lathrop; m. 1837, Catharine Truxton Jennings, New York City, who was b. 1808, dau. of Nathan Tiltman Jennings and Maria Miller. Their children:
1. Maria Jennings, b. 1838, & 1845.
2. William General, b. 1840, & 1841.
3. David McKenric, b. 1842, & 1843.
4. Anna Margaret, b. 1845.
5. Anna Catharine, b. 1845.
4121.6. Charles Christopher Lathrop, N. Y. City, b. 1817, & 1865, son of Mary Ely and General Lathrop; m. 1845, Mary Augusta Andrews, 992 Broad St., Newark, N. J., who was b. 1815, dau. of Judge Carlo Haines Andrews and Emma Sutherland Goble. Mrs. Lathrop died at her home, 992 Broad St., Newark, N. J., Friday morning, Nov. 4, 1898. The funeral services were held at her residence on Monday, Nov. 7, 1898, at half-past two o'clock P. M. Their children:
1. Charles Richard, b. 1847, & 1894.
2. William Edward, b. 1848, & 1895.
3. Theodore Andrew, b. 1850, & 1896.
4121.7. Emma Goble, b. 1812.
Miss Emma Goble Lathrop, official historian of the New York Chapter of the Daughters of the American Revolution, is one of the youngest members to hold office, but one whose intelligence and capability qualify her for such distinction. Mrs. Lathrop is not without experience in her present home and native city. Newark, N. J., she has filled the positions of secretary and treasurer in the Guild of the Daughters of the American Revolution, and president of the Newark Chapter of the Trinity Church Parish (successor of the St. Columba's Guild of St. Barbara Hospital) and manager of several of Newark's charitable institutions which her goodnature was instrumental in founding. Mrs. Lathrop traces her lineage back through many generations of famous progenitors on both sides. Her maternal ancestors were among the early settlers of New Jersey, among them John Ogden, who retained possession of the purchase of Elizabeth, and who in 1674 was
```



# Future Work (in progress)

- Build Interface
- Adjust Code to Resolve “Gotchas”
- Seize Opportunities
  - Improve candidate pattern identification
  - Assess and adjust for increased usability



# Conclusion

- Rule creation by text snippet examples
- (Hopefully) objectives will be achieved

THE ELY ANCESTRY. 419  
GENEALOGICAL.

24312. Mary Ellen Warner, b. 1866, dau. of Samuel Selvia Warner and Anabel Terry; m. 1890, Joel M. Gray (who was connected with Chief Justice Waite's family).

24313. Abigail Harrington Lathrop (widow), Boston, N. J., b. 1810, dau. of Mary Ely and Gerrard Lathrop; m. 1833, Donald McKen- zie, West India, who was b. 1810, d. 1839.  
(This widow is unable to give the names of her husband's parents.)  
Their children:  
1. Mary Ely, b. 1836, d. 1860.  
2. Gerrard Lathrop, b. 1838.

24314. William Gerrard Lathrop, Boston, N. J., b. 1814, d. 1882, son of Mary Ely and Gerrard Lathrop; m. 1837, Charlotte Brackett Jennings, New York City, who was b. 1818, dau. of Nathan Thomas Jennings and Maria Miller. Their children:  
1. Mary Jennings, b. 1838, d. 1860.  
2. William Gerrard, b. 1840.  
3. Donald McKen- zie, b. 1842, d. 1862.  
4. Anna Margaret, b. 1844.  
5. Anne Catherine, b. 1846.

24315. Charles Christopher Lathrop, N. Y. City, b. 1817, d. 1865, son of Mary Ely and Gerrard Lathrop; m. 1846, Mary Augusta Andrews, 992 Broad St., Newark, N. J., who was b. 1819, dau. of Judge Caleb Edmund Andrews and Emma Southard, wife. Mrs. Lathrop died at her home, 992 Broad St., Newark, N. J., Friday morning, Nov. 4, 1898. The funeral services were held at her residence on Monday, Nov. 7, 1898, at half past two o'clock, P. M. Their children:  
1. Charles Edmund, b. 1847, d. 1860.  
2. William Gerrard, b. 1849, d. 1860.  
3. Theodore Andrew, b. 1850.  
4. Emma Gable, b. 1852.

Mrs. Emma Gable Lathrop, official historian of the New York Chapter of the Daughters of the American Revolution, is one of the proudest natives to hold office, but she whose intelligence and capability qualify her for such distinction. Mrs. Lathrop is an ardent supporter of her native land and native city. She was, N. J., for the first time the president of the American Revolution in the United States for the same year, secretary and president of the Women's Auxiliary of Trinity Church Parish, treasurer of the St. Columba's Guild of St. Nicholas Hospital, and manager of several of Newark's charitable institutions, which her contributions were instrumental in founding. Mrs. Lathrop traces her lineage back through many generations of famous patriots on both sides. Her maternal ancestors were among the early settlers of New Jersey, among them John Cadwal- der, who received patent in 1666 for the purchase of Elizabethtown, and who in 1673 was



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24312. Mary Ellen Warner, b. 1866, dau. of Samuel Selvia Warner and Anabel Terry; m. 1890, Joel M. Gray (who was connected with Chief Justice Waite's family).
24313. Abigail Harrington Lathrop (widow), Boston, N. J., b. 1810, dau. of Mary Ely and Gerrard Lathrop; m. 1833, Donald McKen- zie, West India, who was b. 1810, d. 1839.
(This widow is unable to give the names of her husband's parents.)
Their children:
1. Mary Ely, b. 1836, d. 1860.
2. Gerrard Lathrop, b. 1838.
24314. William Gerrard Lathrop, Boston, N. J., b. 1814, d. 1882, son of Mary Ely and Gerrard Lathrop; m. 1837, Charlotte Brackett Jennings, New York City, who was b. 1818, dau. of Nathan Thomas Jennings and Maria Miller. Their children:
1. Mary Jennings, b. 1838, d. 1860.
2. William Gerrard, b. 1840.
3. Donald McKen- zie, b. 1842, d. 1862.
4. Anna Margaret, b. 1844.
5. Anne Catherine, b. 1846.
24315. Charles Christopher Lathrop, N. Y. City, b. 1817, d. 1865, son of Mary Ely and Gerrard Lathrop; m. 1846, Mary Augusta Andrews, 992 Broad St., Newark, N. J., who was b. 1819, dau. of Judge Caleb Edmund Andrews and Emma Southard, wife. Mrs. Lathrop died at her home, 992 Broad St., Newark, N. J., Friday morning, Nov. 4, 1898. The funeral services were held at her residence on Monday, Nov. 7, 1898, at half past two o'clock, P. M. Their children:
1. Charles Edmund, b. 1847, d. 1860.
2. William Gerrard, b. 1849, d. 1860.
3. Theodore Andrew, b. 1850.
4. Emma Gable, b. 1852.
Mrs. Emma Gable Lathrop, official historian of the New York Chapter of the Daughters of the American Revolution, is one of the proudest natives to hold office, but she whose intelligence and capability qualify her for such distinction. Mrs. Lathrop is an ardent supporter of her native land and native city. She was, N. J., for the first time the president of the American Revolution in the United States for the same year, secretary and president of the Women's Auxiliary of Trinity Church Parish, treasurer of the St. Columba's Guild of St. Nicholas Hospital, and manager of several of Newark's charitable institutions, which her contributions were instrumental in founding. Mrs. Lathrop traces her lineage back through many generations of famous patriots on both sides. Her maternal ancestors were among the early settlers of New Jersey, among them John Cadwal- der, who received patent in 1666 for the purchase of Elizabethtown, and who in 1673 was
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- Usable by non-experts (examples only; user-friendly interface)
- Quick development (click/copy rule development; candidate rule generation)
- Quality results (good precision and recall)

# Conclusion

- Rule creation by text snippet examples
- (Hopefully) objectives will be achieved
  - Usable by non-experts (examples only; user-friendly interface)
  - Quick development (click/copy rule development; candidate rule generation)
  - C



*Thank You*