

number

name

principle events

identification

partnership

event

title

partnership

notes

title

characteristic

note

number = [{ direct ancestor [number <id>] }]

{ indirect ancestor }

name = [name]

[<name>]

[<pref> <place>], <pref> <place>]

[alternate spelling: <name>, <name>]

[English spelling: <name>]

identification = [son of <name>]

{ wife of <name> and daughter of <name> }

{ descendant of <name>], and <name>]

[ancestor of <name>]

event = [favorite: <date>]

{ alive: <date>, and <date>]

[birth:]

[<date>, <place>], by <name>]

[baptism:]

[<date>, <place>], by <name>]

[death:]

[<date>, <place>], by <name>]

title

= [title] [<date> - <date>] or (<date>], or <date>])

[<date>] [<date> - <date>] or <date>] [...]

[...]

Partnership

=

}

{ no partnerships

{
[no_order] partnership: [name] \sqcup , [idбр] }
[no_order] married [date] \sqcup , [place] \sqcup [div.] }
3]

[no children

{ children:

{
[no_order] [sex] \sqcup [name] \sqcup [event] }
[part, brv] }

[...]

<idбр> = { son of <name>

{ daughter of <name>

{ descendant of <name>, \sqcup , and <name> \sqcup ... } }

<partner> = { no partnerships

{
[no_order] partnership: [name] \sqcup , [idбр] }
[not married]
[married [date], [place]] }
}

characteristic = [occupation: <occ> |; <occ> | ...]]]

[religion: <rel> | / <rel> | ...]]]

[residences:

[<no>.] [<place>] |, <date> | - <date>]]

[| <no>.] [<place>] |, <date> | - <date>]]

[...]]]

[education: {<tch> |, <tch> | ...}]]

{<place> [<date> | - <date>]] | <tch> |, <tch> | ...]]
|, <grades> {<no> <ord>} | - <no> <ord> |]]
& <place> [<date> | - <date>]] | <tch> |, <tch> | ...]]
|, <grades> {<no> <ord>} | - <no> <ord> |]]
[...]] }

[height: [birth: <ht>]

[adulthood: <ht>]]

[weight: [birth: <wt>]

[adulthood: <wt>]]

note = [<notes>

| <notes>

[...]]]

`(div) = divorce; separated [<date>] [, <place>]`

`<no>`

`<num.ord> = (a positive integer)`
`= (cardinal number in words)`
`<name.fun> <name.fun> <name.fun>`
`<name> = <given name> [<given name> [...] [<surname>]`

`<name> <given name> <given name> <name>`
`<name> <name> <name> [...]`
`<name>`

`<given name> = (a name given to the person at birth or at baptism)`

`<surname> = (the family name of the person)`

`<name.sur> <name.fun> [<name.mdn>]`

`<surname> = <name> [<surname>]`

`<name.fun> family name:`

`<family> = (the family name of the person)`

`<name.mdn> [<name>]`

`<mother> = (the maiden name of the person's mother)`

`<name.epth> epithet:`

`<epth> = (an adjective or descriptive phrase)`

`<preposition> = (a word which indicates the relationship)`

`<prep>`

`<preposition> = <preposition> (a preposition)`
`<bld> <dist> <co> <ctry> <ctry>`

`<place> = [<building>] [, <district>] [, <county>] [, <state>] [, <country>]`
`<bld> building:`

`<building> = <address> - <name> (name or address of house, cemetery, hospital, etc.)`

`<district>`

`<dist> district:`

`<dist> = (name of city, town, village, etc.)`

`<co> county:`

`<county> = <co> (name of county, shire, etc.)`

`<state> state:`

`<st> = (name of a state of the United States of America)`

`<ctry> country:`

`<ctry> = (name of a country)`

`<name.alt>`

`<alt.sp.name> = (an alternate spelling of <name>)`

`<name.Eng>`

`<Mod. Eng. transn> = (the Modern English translation of <name>)`

`<mod>`

`<preposition> <place> [<zone>]`

`[<date>]`

`<date> = [<month> [<day>],] [A.D.] <year> [B.C.] [<time>, [<zone>]]`
`<month> 1 2 3 4 5 6 7 8 9 10 11 12 3`

`<month> = (name of a month of the year)`

`<day> = (a positive integer between 1 and 31 inclusive which designates the day of the month)`

`<year> = (a positive integer representing the number of years away from A.D. 0)`
`(time expressed in twenty-four-hour form)`

`<time> = <time in the form> hh:mm where hh = an integer between 00 and 23`

`<zone> = (abbreviation of time zone)`

$\langle \text{bapt} \rangle$ = baptizer
 $\langle \text{baptized} \rangle$ = (name) of person who dipped or immersed the person in water, or sprinkled water on the person during the baptismal ceremony
 $\langle \text{cause} \rangle$ = cause of death
 $\langle \text{cause} \rangle$ (name) = burial {in grave }
 $\langle \text{cause} \rangle$ = {in tomb }{manslaughter}
 $\langle \text{cause} \rangle$ {at sea }
 $\langle \text{cause} \rangle$ {cremation }
 $\langle \text{cause} \rangle$ {other }
 $\langle \text{title} \rangle$ = [title] [title]
 $\langle \text{title} \rangle$ = (any activity performed by the person for a living)
 $\langle \text{title} \rangle$ = (name of a system of expression of the person's belief in religion; and reverence for a superhuman power recognized as the creator and governor of the universe)
 $\langle \text{wt} \rangle$ (weight) = [16] pound[pounds], [0.2] ounce[ounces]
 $\langle \text{lb} \rangle$ pounds:
 $\langle \text{pounds} \rangle$ = (a positive integer designating the number of avoirdupois pounds)
 $\langle \text{oz} \rangle$ = [0] & positive integer designating the number of avoirdupois ounces
 $\langle \text{ht} \rangle$ (height) = [1] foot[feet], [1] in > inches
 $\langle \text{ft} \rangle$ feet:
 $\langle \text{feet} \rangle$ = (2 positive integers designating the number of feet)
 $\langle \text{in} \rangle$ inches:
 $\langle \text{inch} \rangle$ = (3 positive integers between 0 and 11 designating the number of inches together)
 $\langle \text{tch} \rangle$ = (name) of a person who imparted knowledge or skill to the person
 $\langle \text{note} \rangle$ = (phrase), etc., describing additional characteristics of the person
 $\langle \text{note} \rangle$ - additional facts in the person's life, etc.
 $\langle \text{fam} \rangle$ = (official form of address for the corresponding title
 $\langle \text{fam} \rangle$ {of }
 $\langle \text{fam} \rangle$ = {m }{f }
 $\langle \text{title-nat} \rangle$ = (official title of person; native language)
 $\langle \text{title-nat} \rangle$ = (official title of the person; title of the person)
 $\langle \text{title-Eng} \rangle$ = (official title of the person; Modern English translation)

documentation
 title
 reference
 title
 author
 or
 title
 year
 city
 publisher
 A0
 no

(title is required, others are optional)

documentation:

```

    if author
      + author
    else
      + author
    end if
    title
    end if
    if year
      + year
    else
      + year
    end if
    if title
      + title
    else
      + title
    end if
    if page
      + page
    else
      + page
    end if
  ]
  
```

reference:

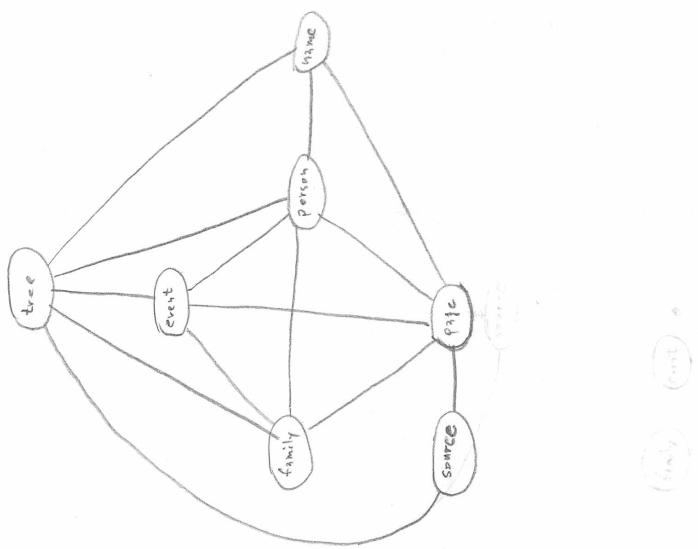
```

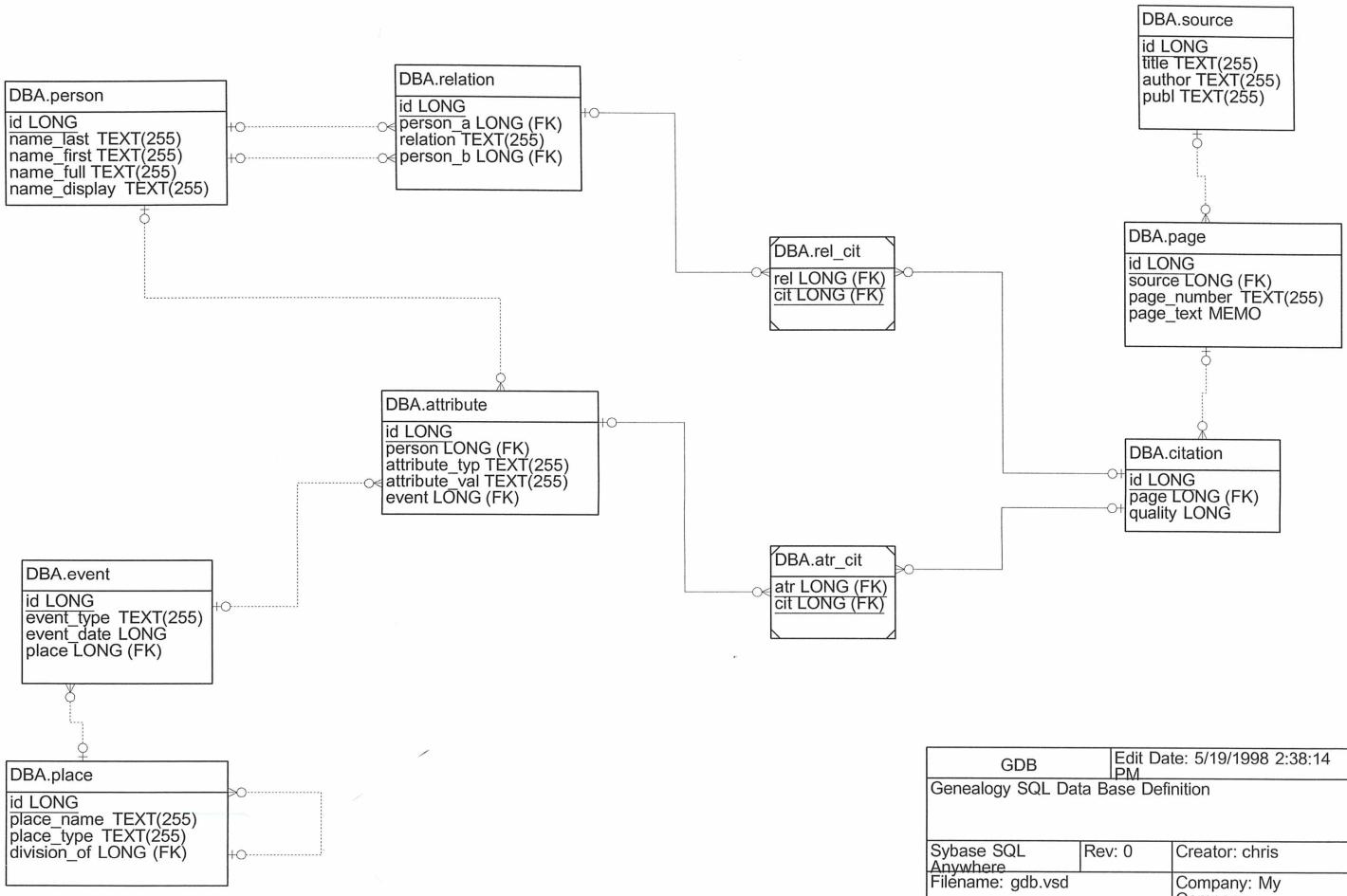
    if author
      + author
    else
      + author
    end if
    title
    end if
    if year
      + year
    else
      + year
    end if
    if title
      + title
    else
      + title
    end if
    if city
      + city
    else
      + city
    end if
    if publisher
      + publisher
    else
      + publisher
    end if
  ]
  
```

```

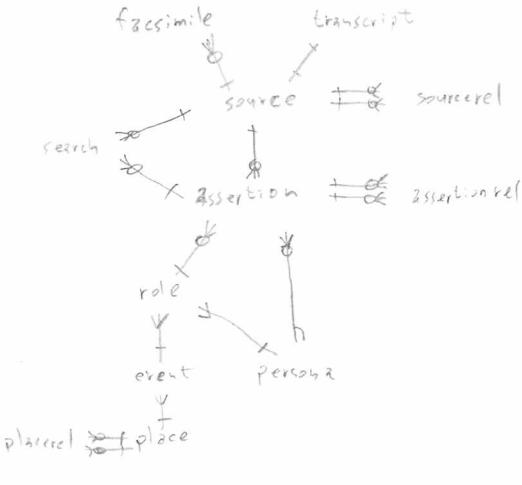
title      author   publisher   city   year   page
=====    ======  ======  =====  =====  =====
if author + author >? {
    end if
    if title + title == {
        if city || publisher == year
            + year
        if city + city == {
            + city } { if publisher == year
                end if + ; <br>
            if publisher + publisher
                if year
                    + , <br>
                end if
            end if
            if year
                + year
            end if
        end if
        + ) <br>
    end if
    if page == (a documentation)
        + <br> page
    end if
}.

```

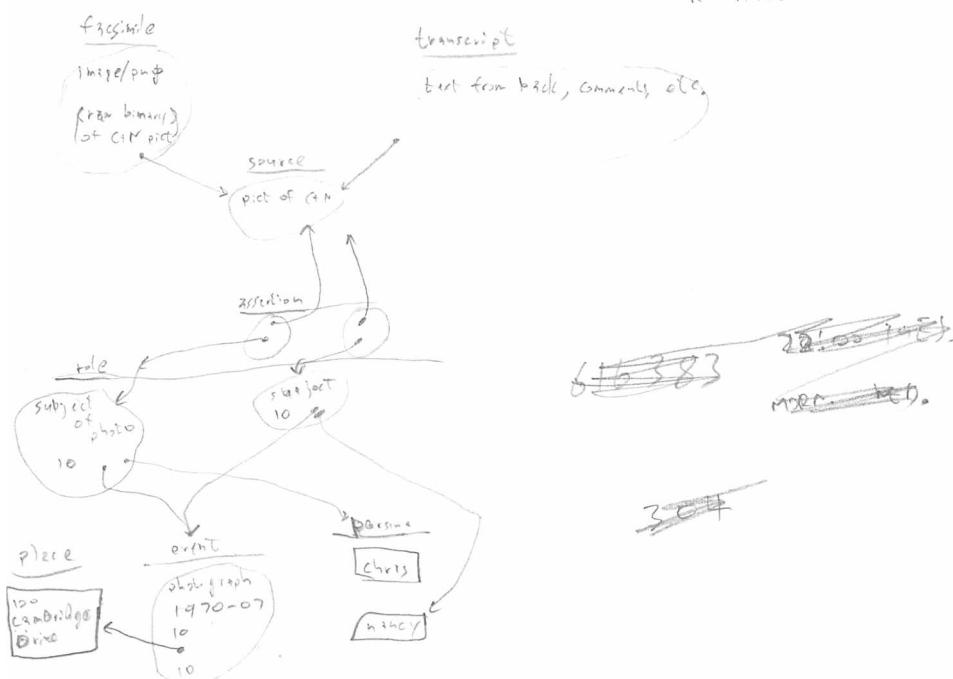




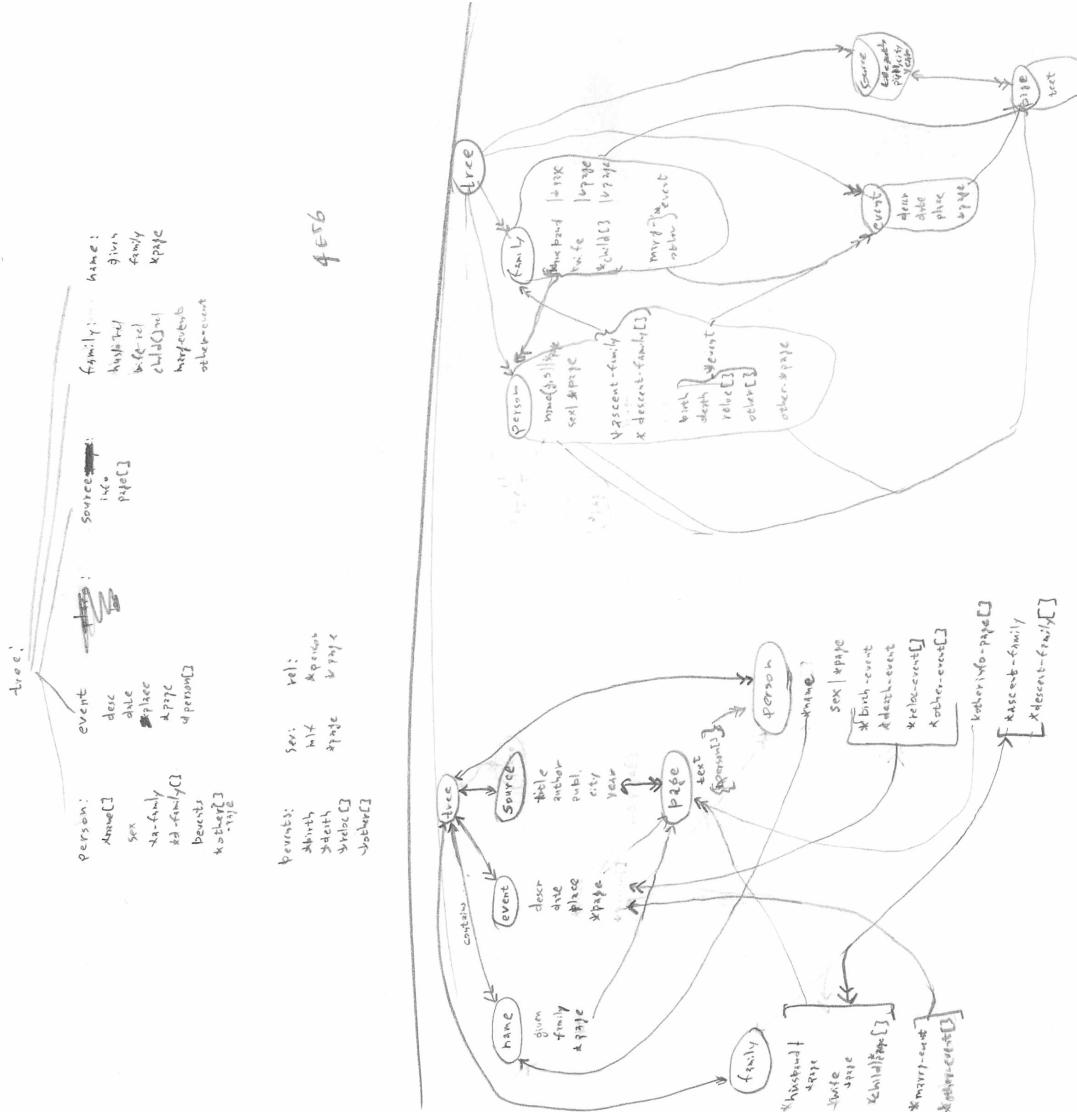
GDB	Edit Date: 5/19/1998 2:38:14 PM
Genealogy SQL Data Base Definition	
Sybase SQL Anywhere	Rev: 0
Creator: chris	
Filename: gdb.vsd	
Company: My Company	

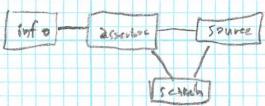
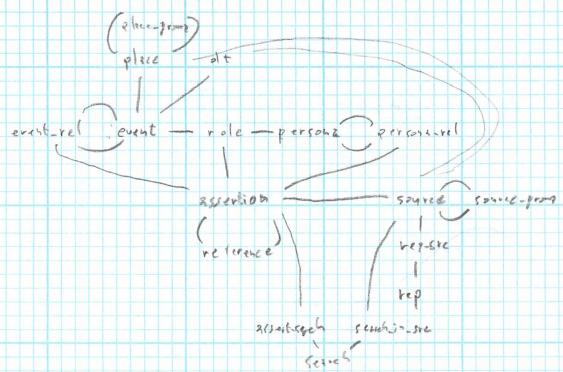


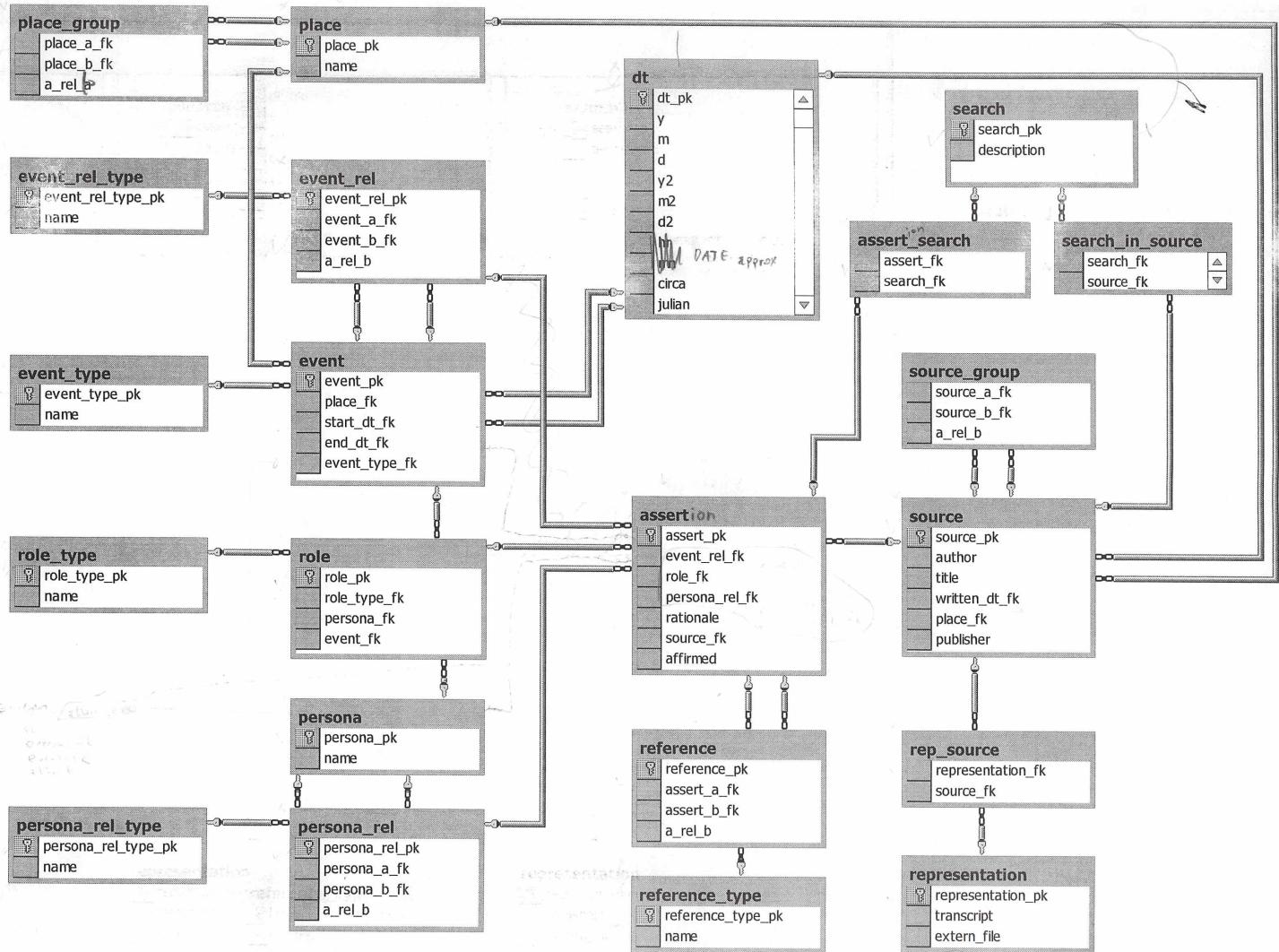
C Chris
 N Nancy
 A Gary
 B Barry
 M Linda
 J Jim
 P Perry
 E Eric
 G Fred
 R Alice



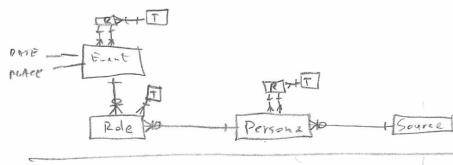
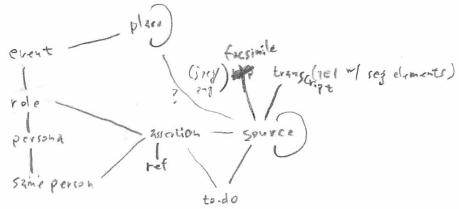
Conceptual Model



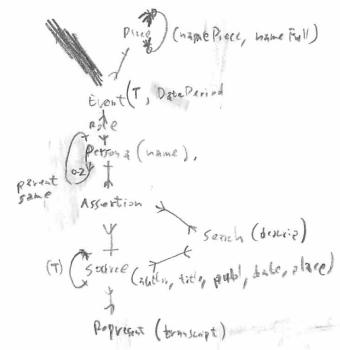
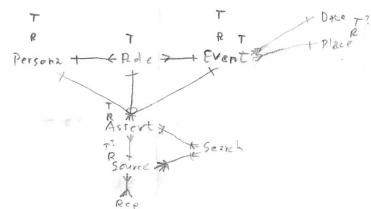
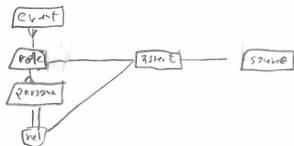




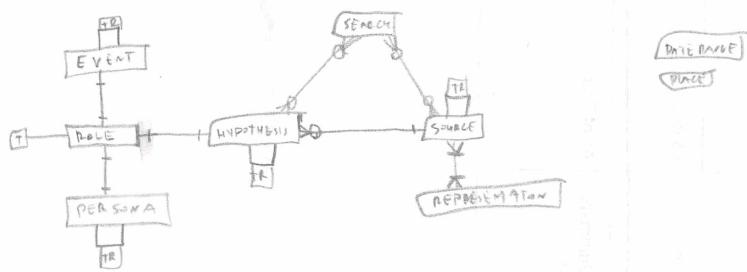
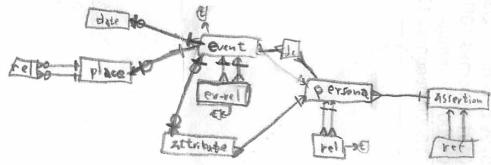
best

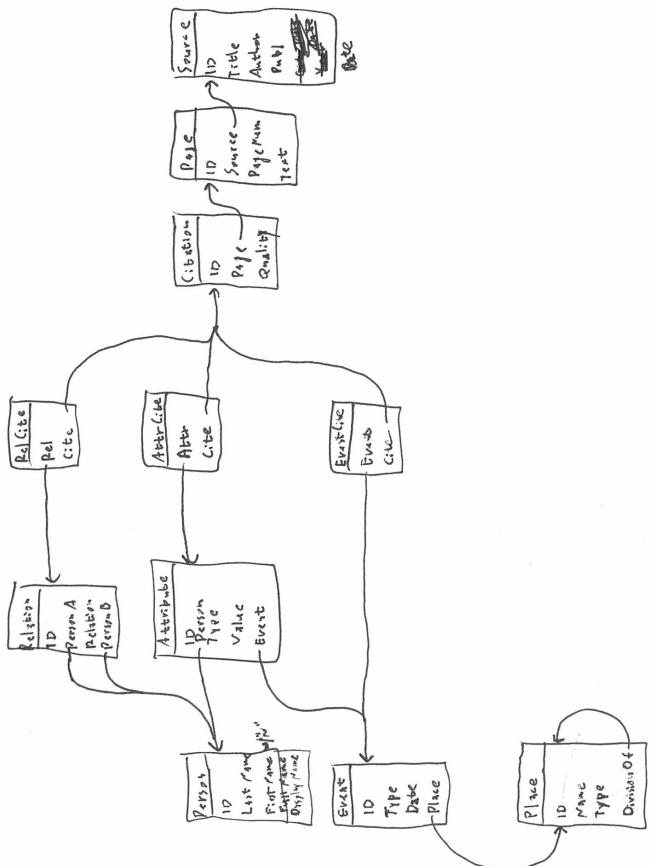


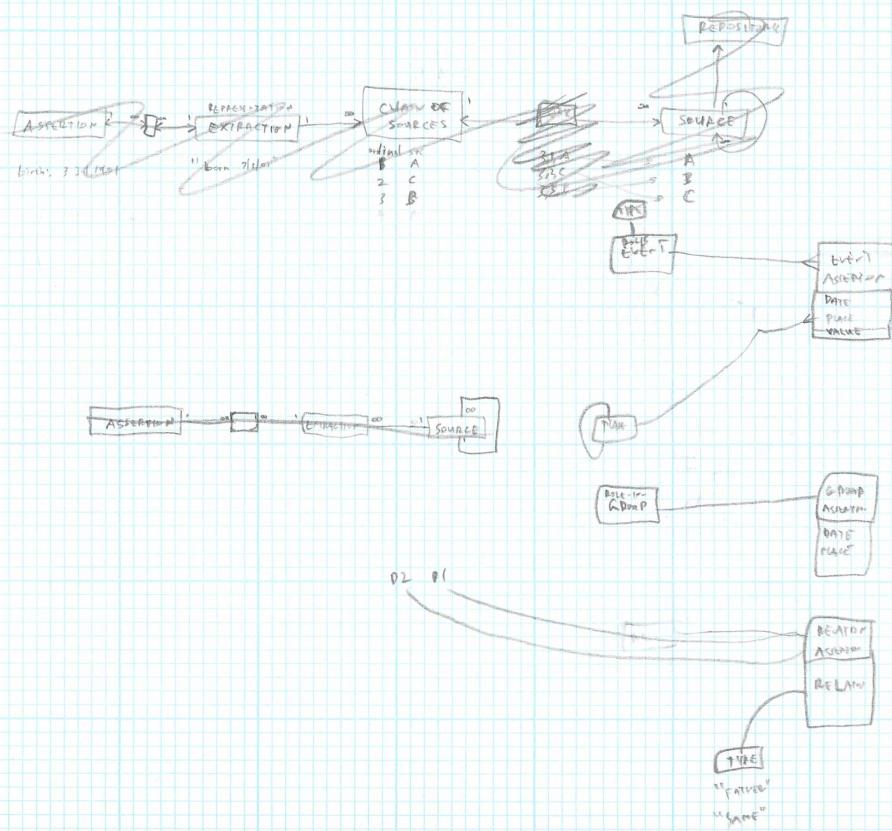
?? all pass thru a persona? ~~NOT GOOD BECAUSE MORE THAN ONE SOURCE COULD TALK ABOUT DIFFERENT ROLES/EVENTS OF THE SAME PERSONA~~

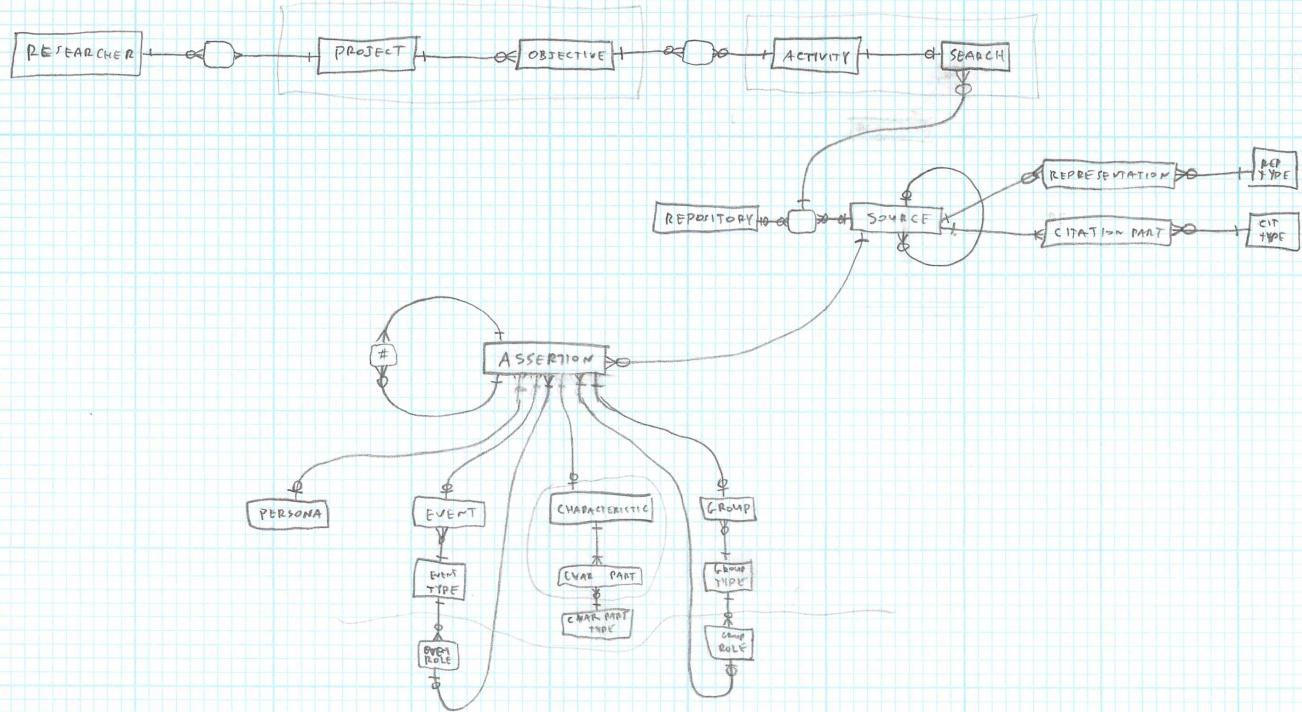


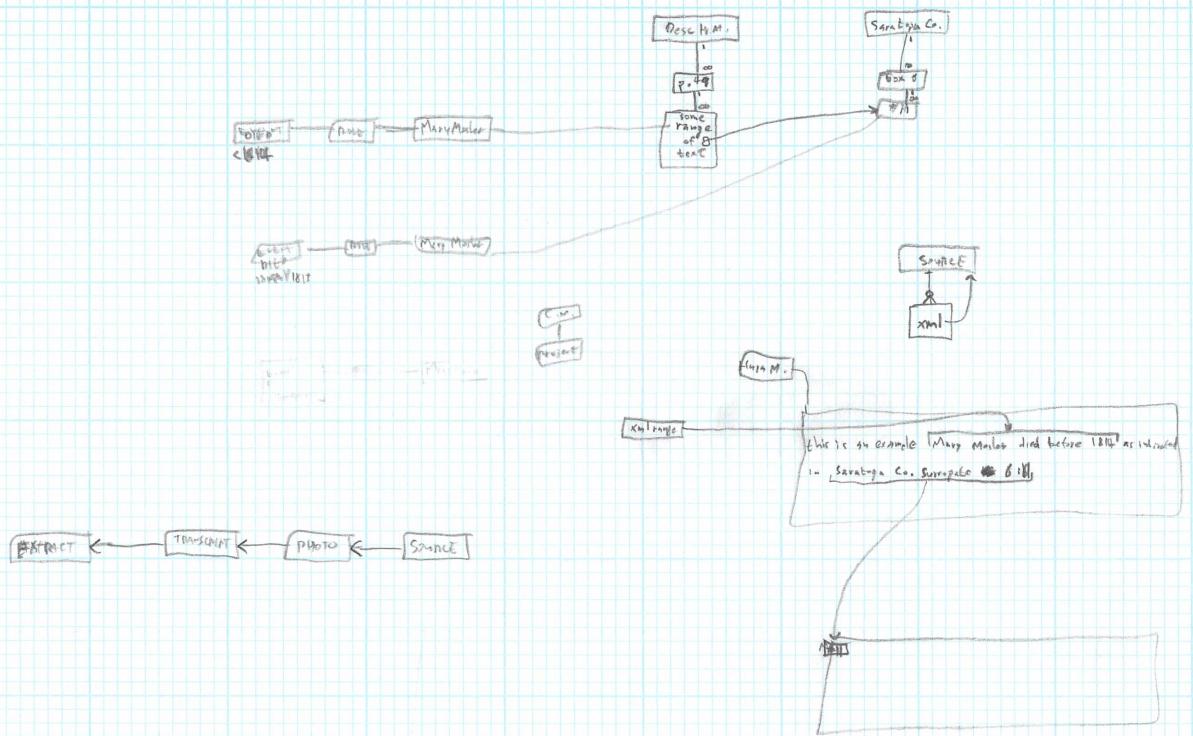
(6) TET PF?









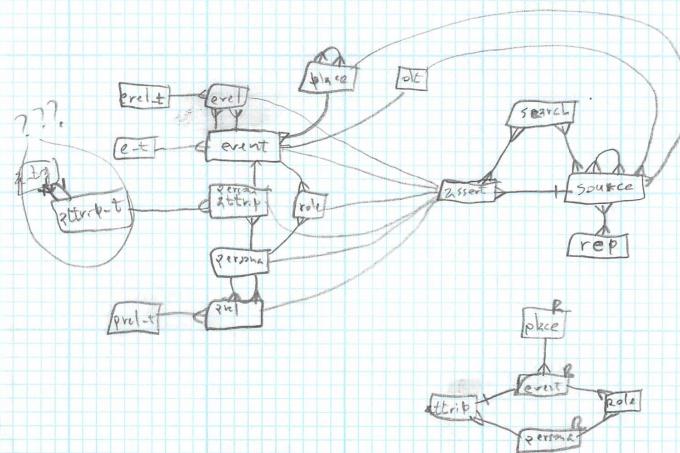
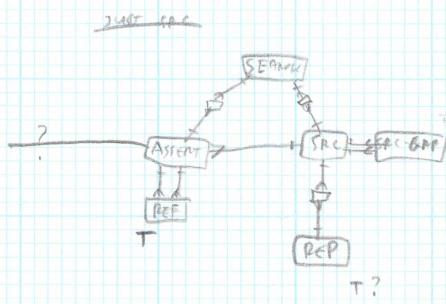
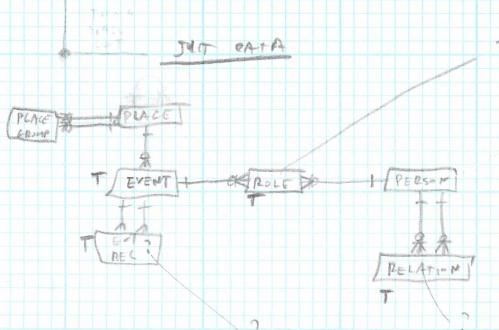


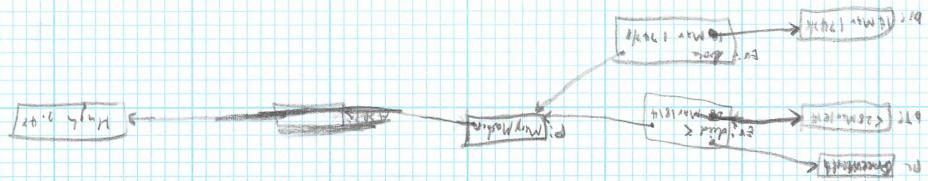
1920s

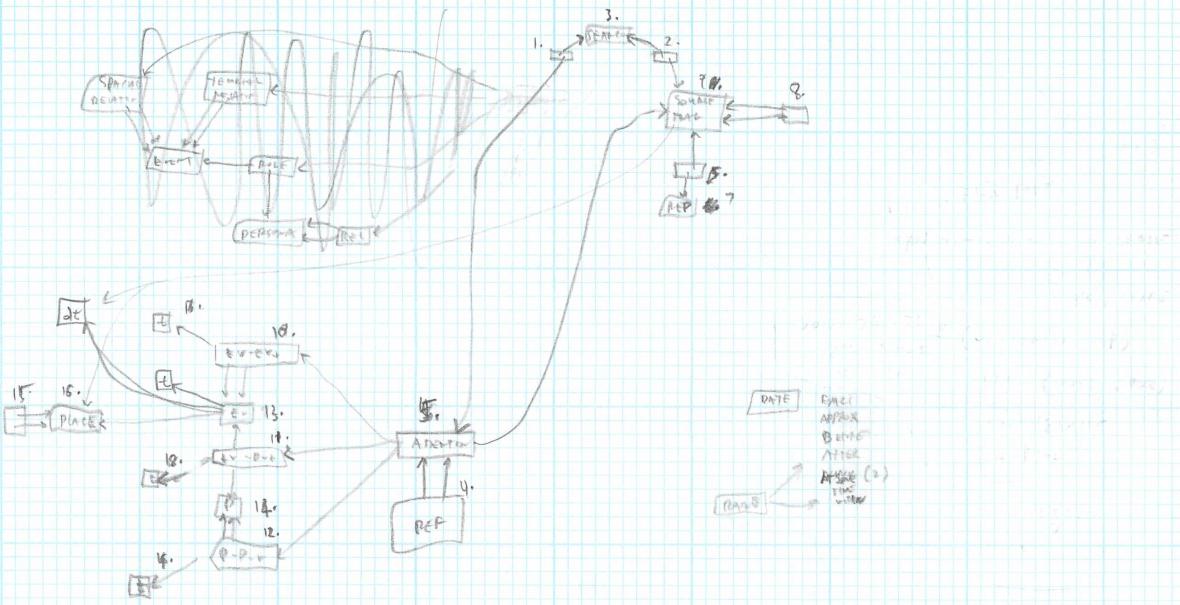
Carl Gordan M. - 1920 - 1920

1920s

TRY: JUST MODEL DATA, NOT KNOWLEDGE OF DATA





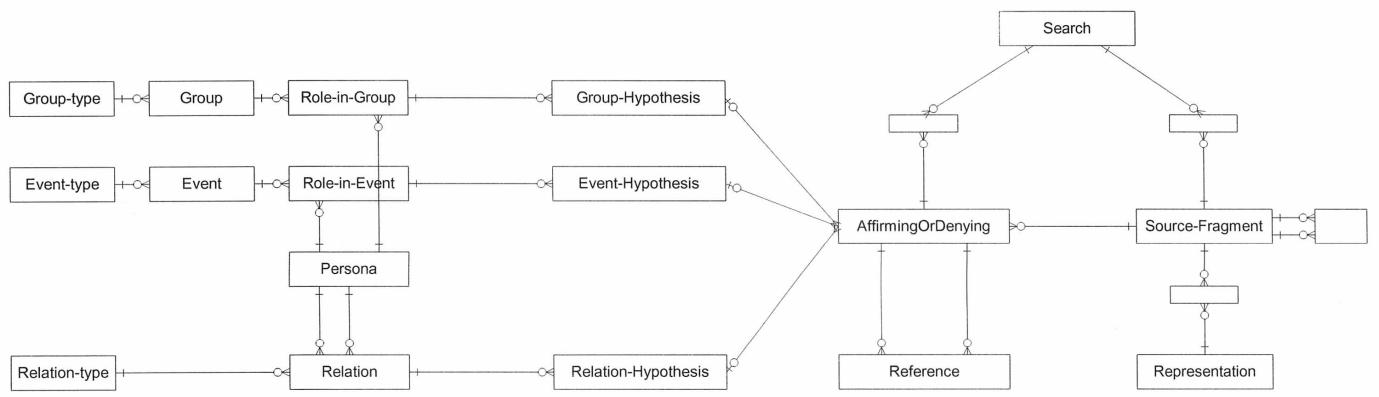


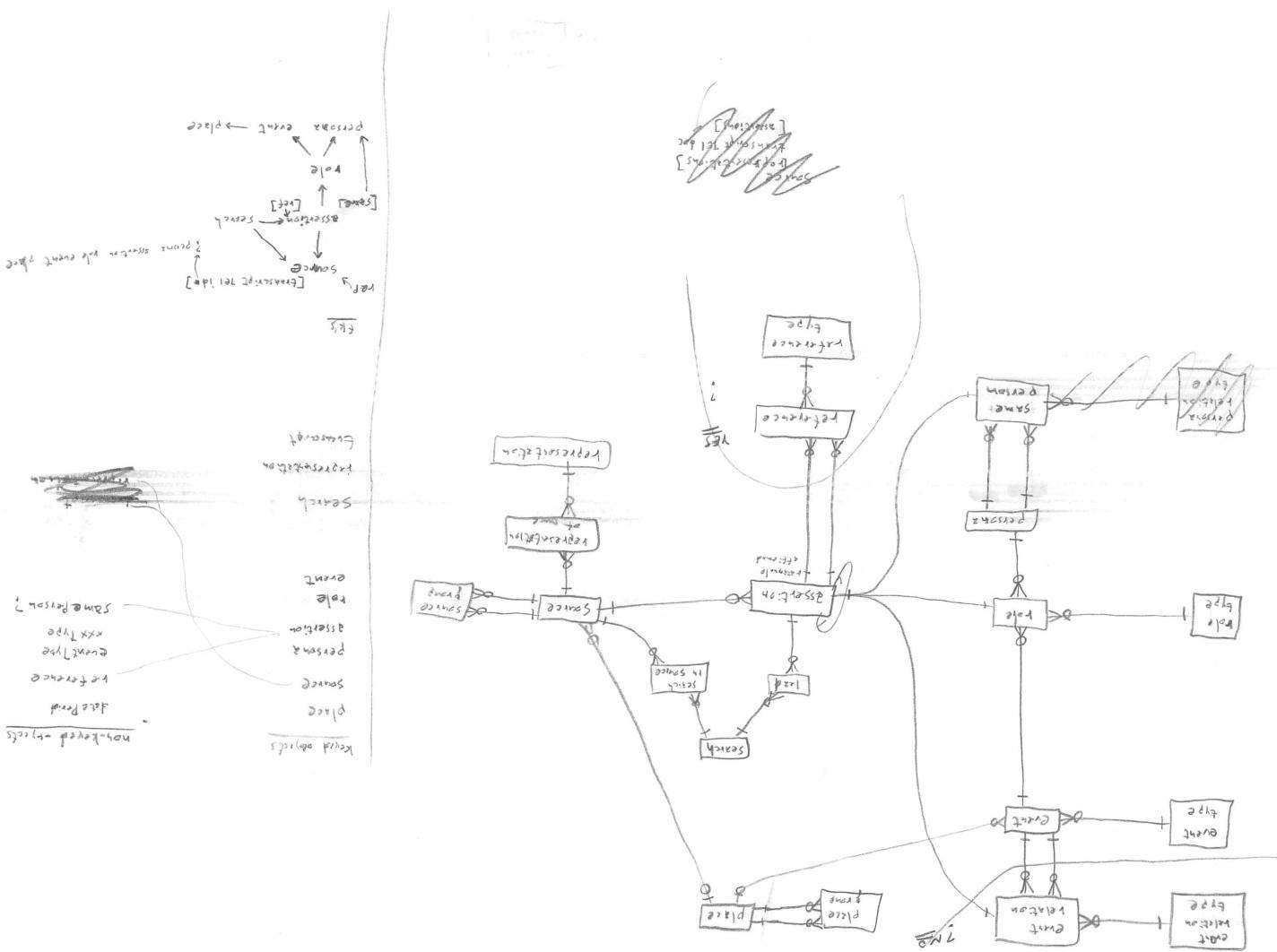
~~222~~ 222
~~3112~~ 3112
~~222~~ 222
~~3112~~ 3112
+ ~~222~~ 222
~~3112~~ 3112

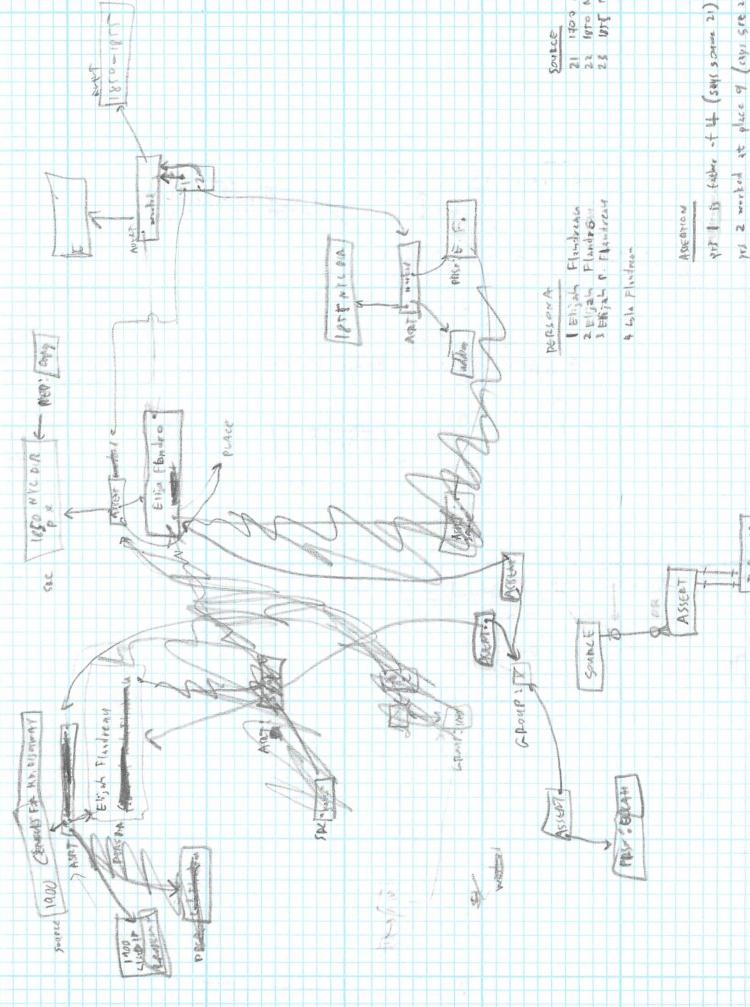
~~5234~~ 5234

~~62594~~ 62594

~~83926~~ 83926







Source

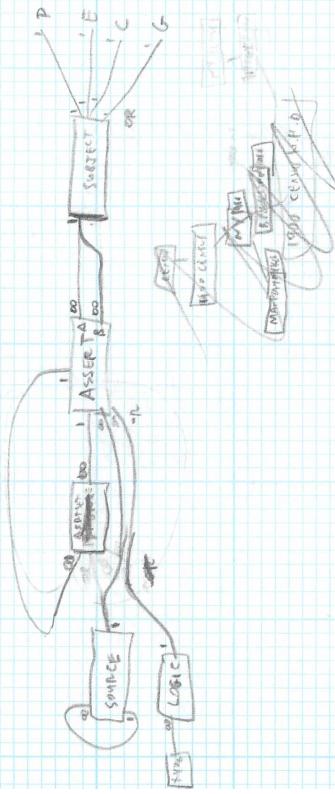
```

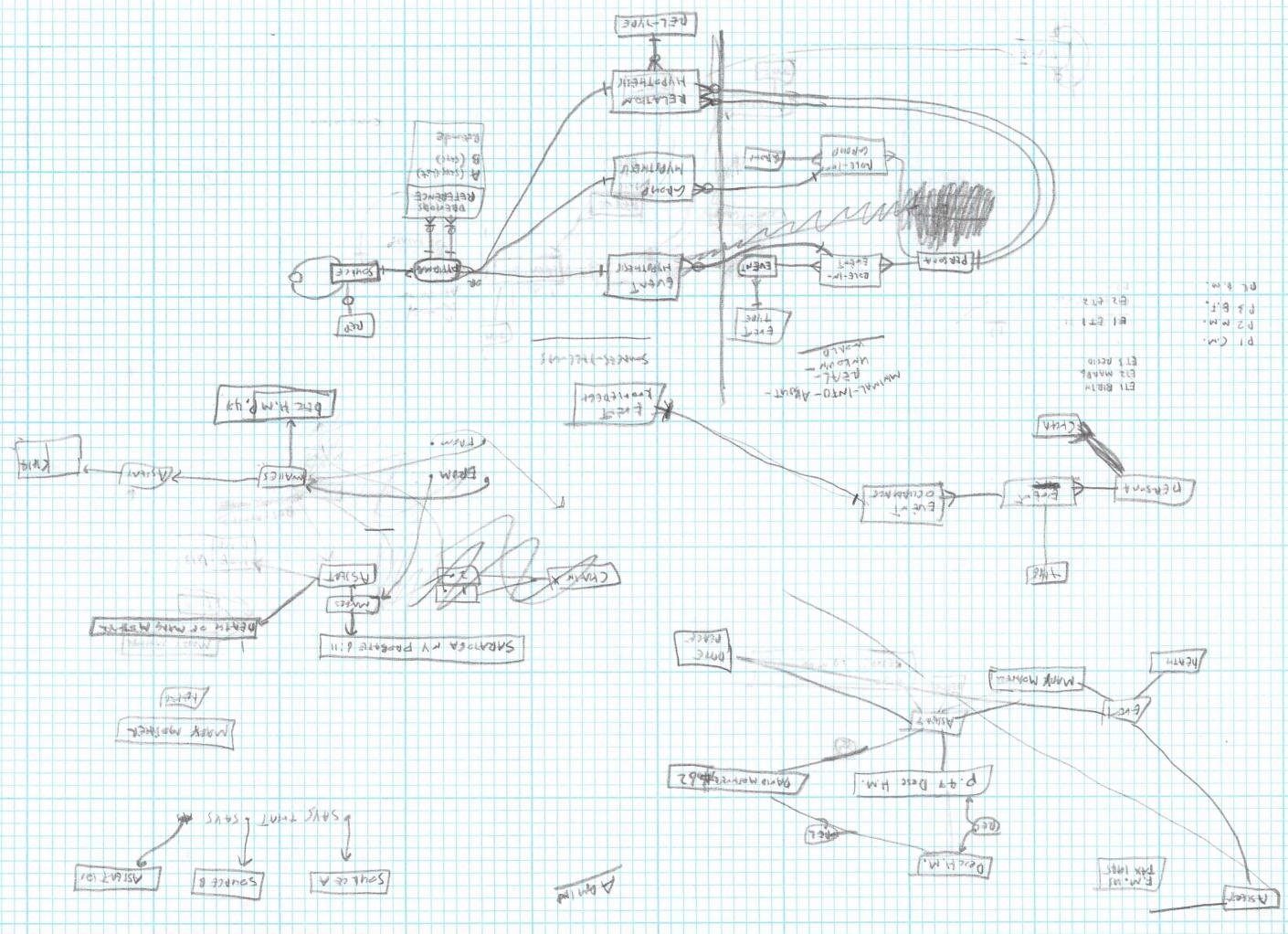
Person A
1 English Friend
2 English Friend
3 English Friend
4 English Friend

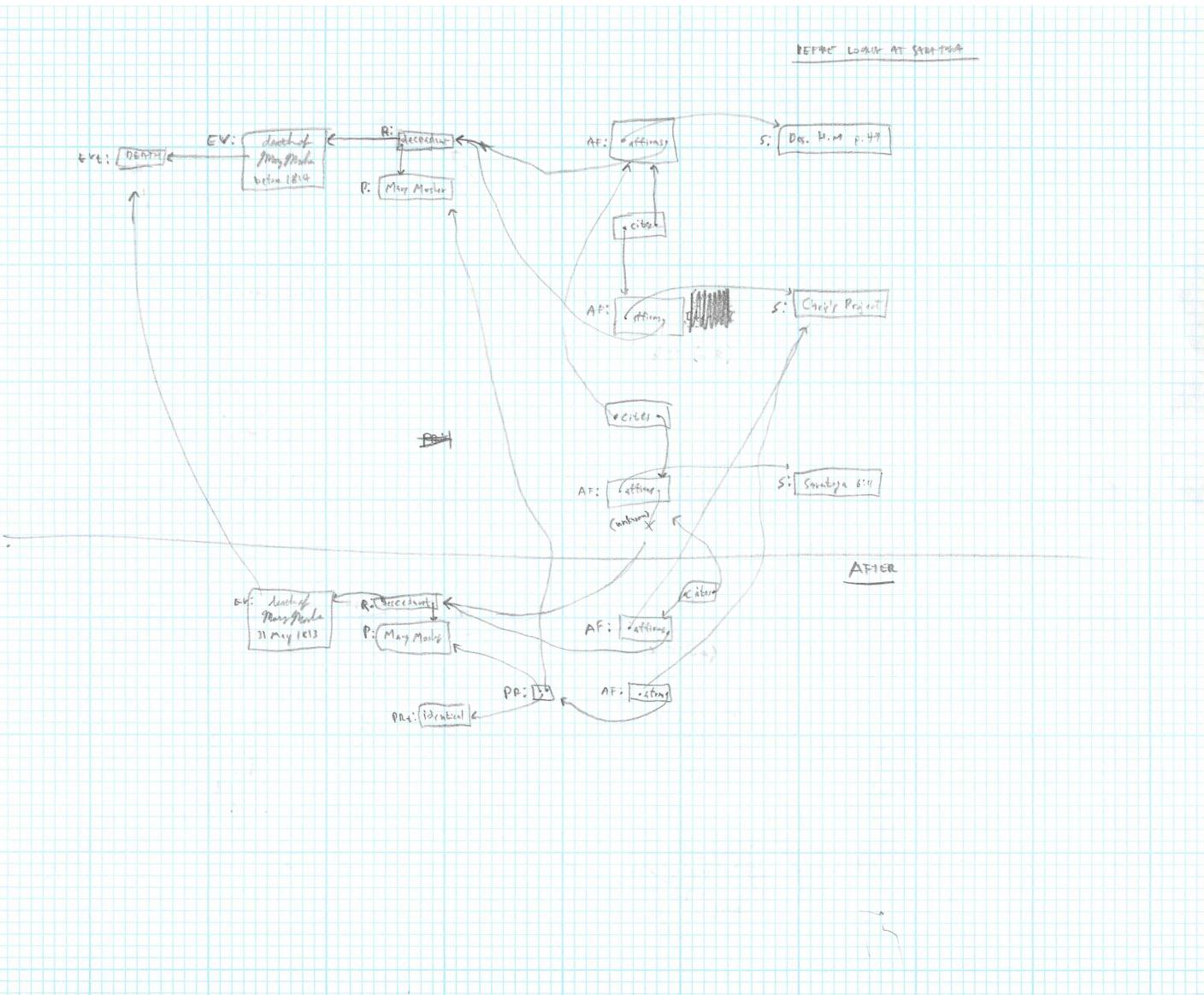
Assertion
#1 is father of (#4's son #2)
#2 worked at place of (#1's son #2)
#1 ? " " 2B (" " 2B)

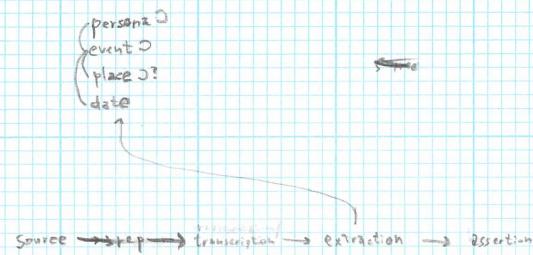
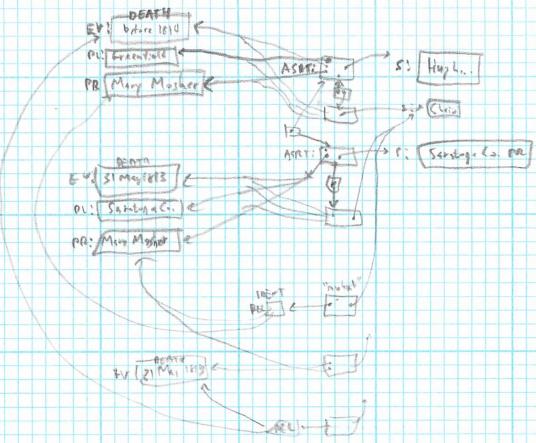
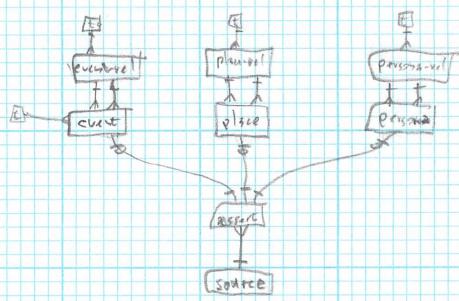
#1 2 is son to person 1 (because "they have same name")
#1 2 ? " " 3 (" " same address 1 person later")

```

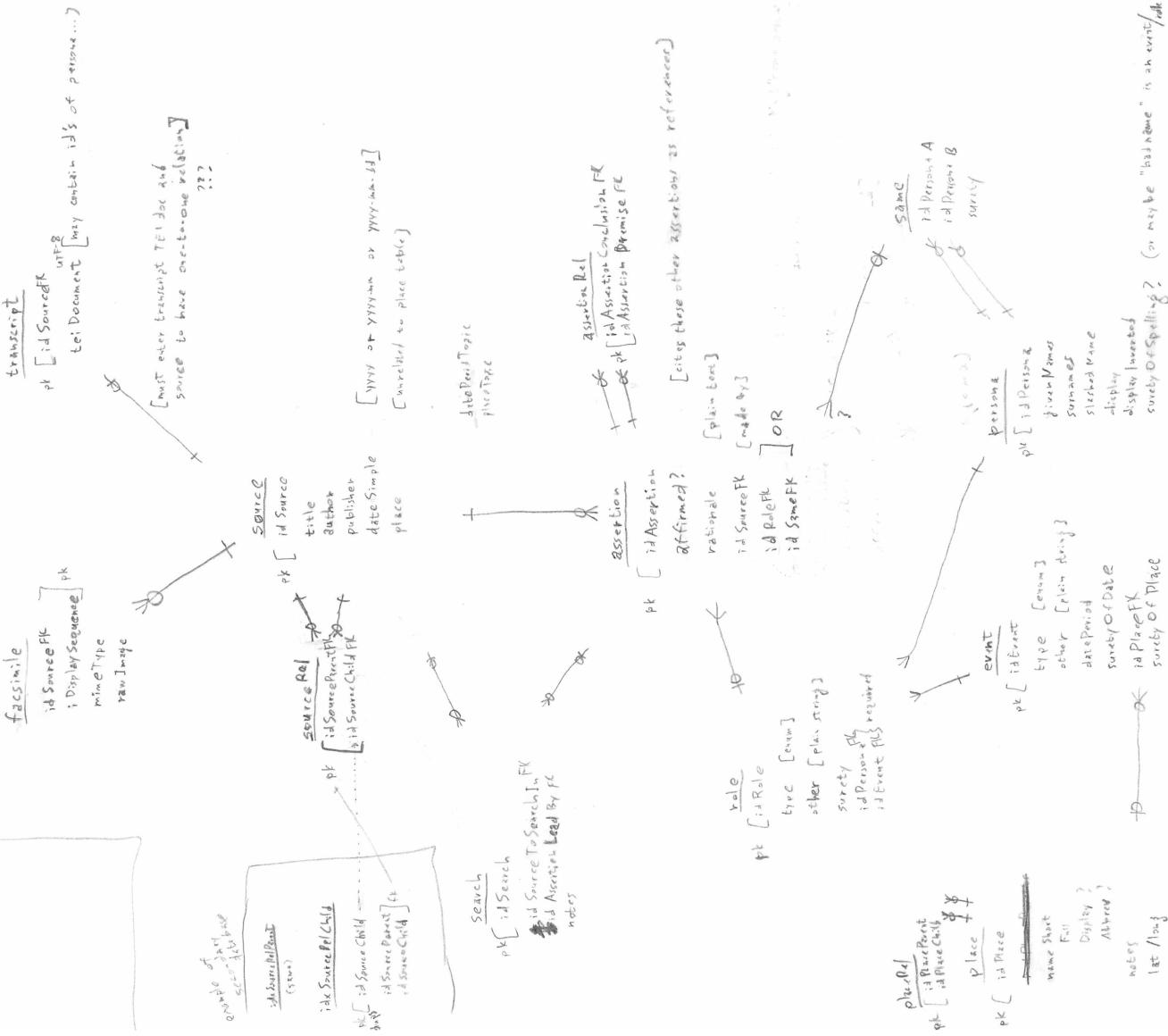


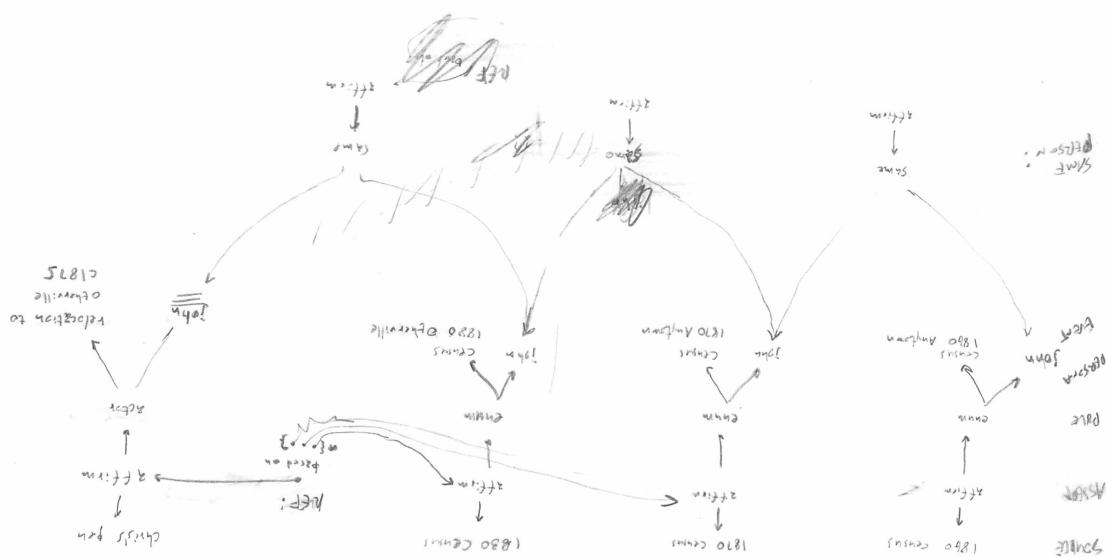


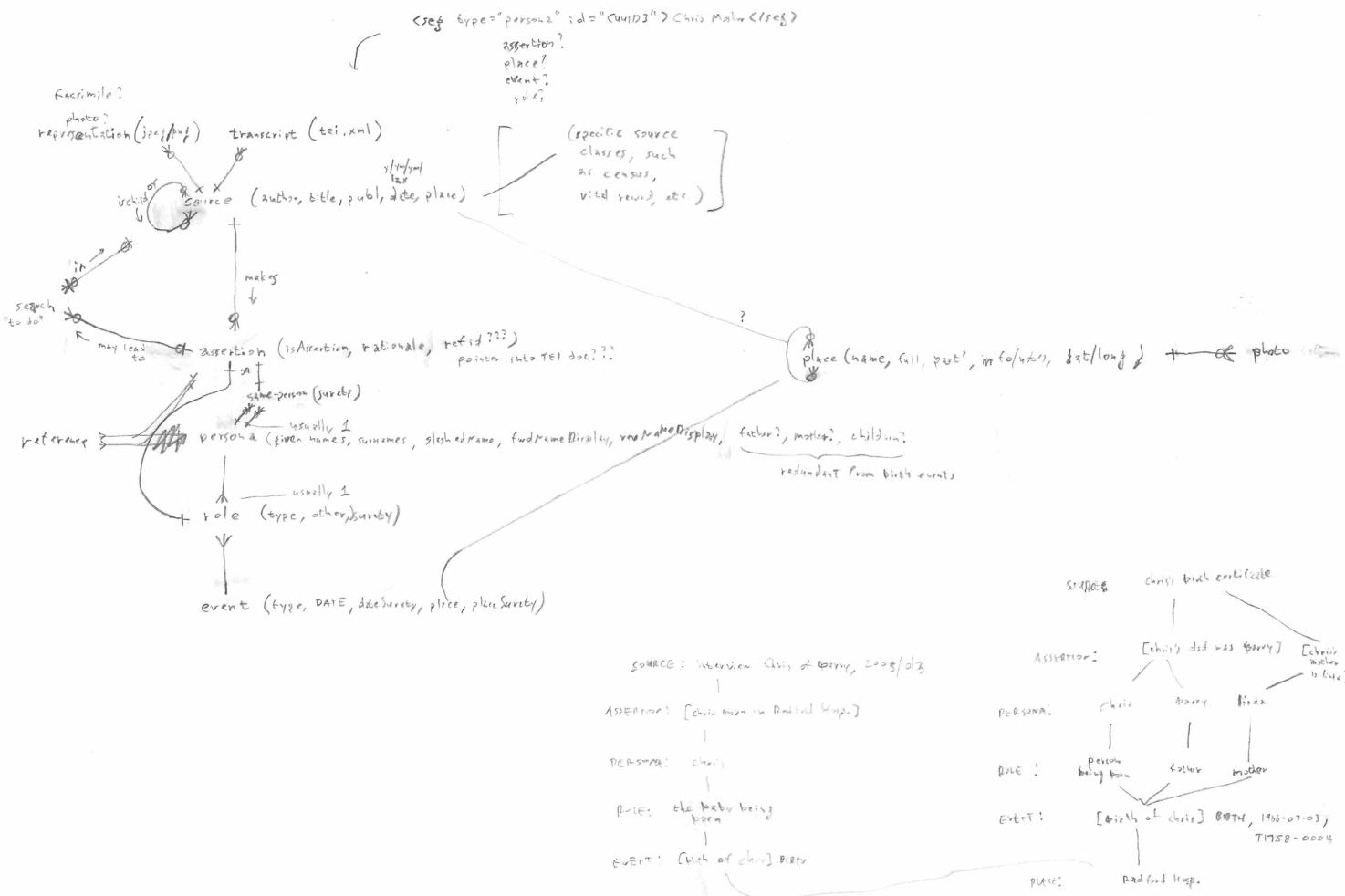


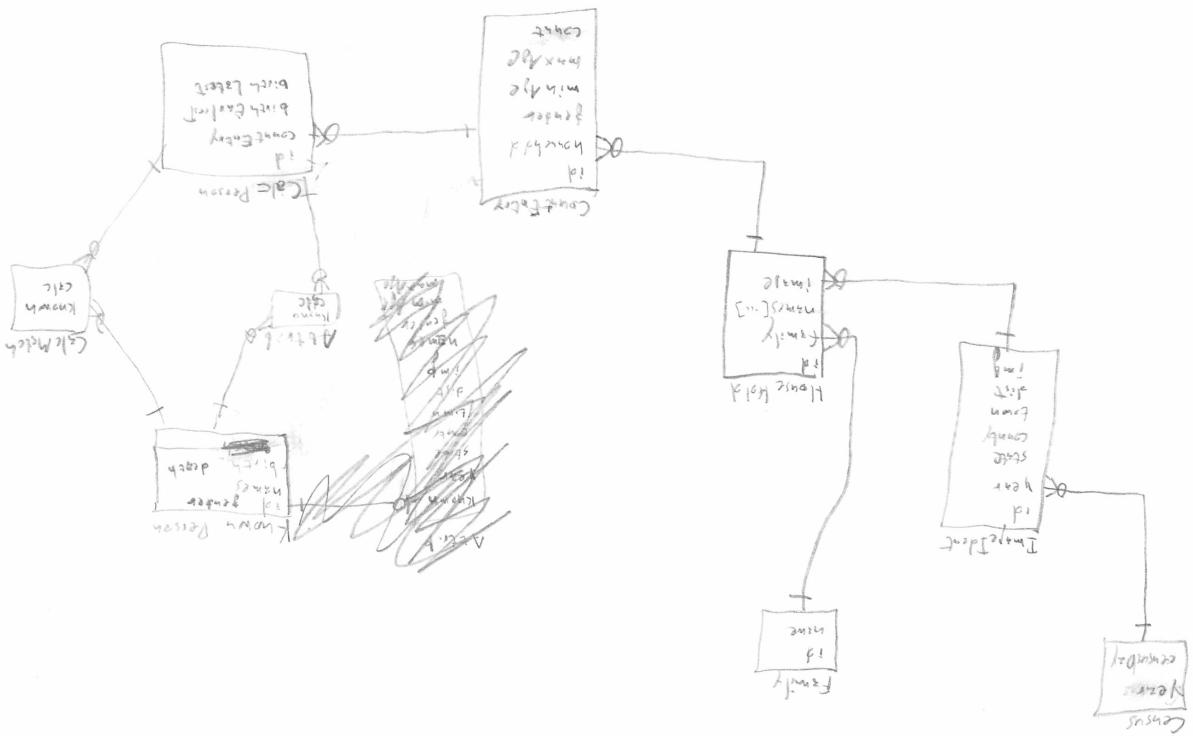


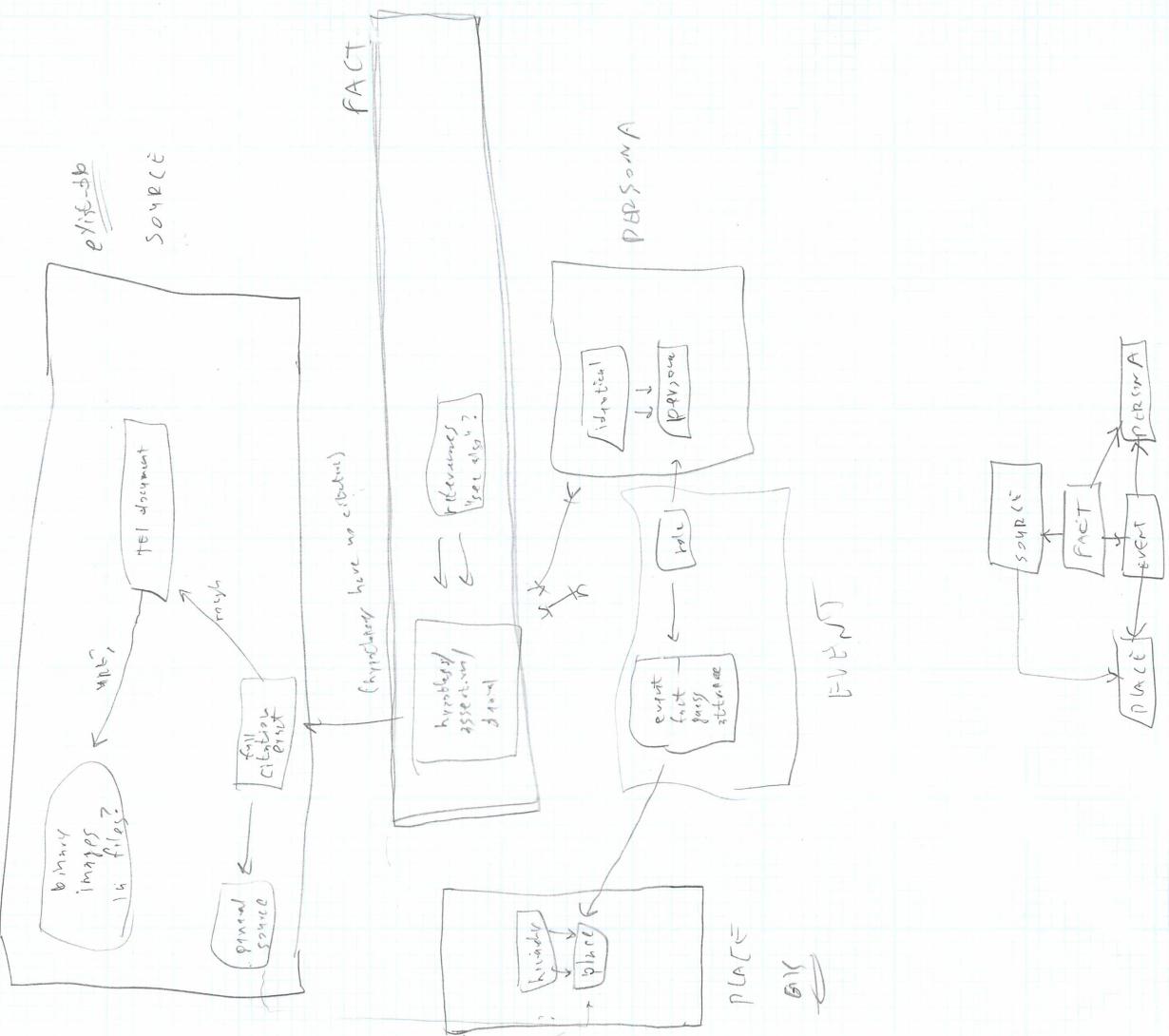
Survey = 0 - 10



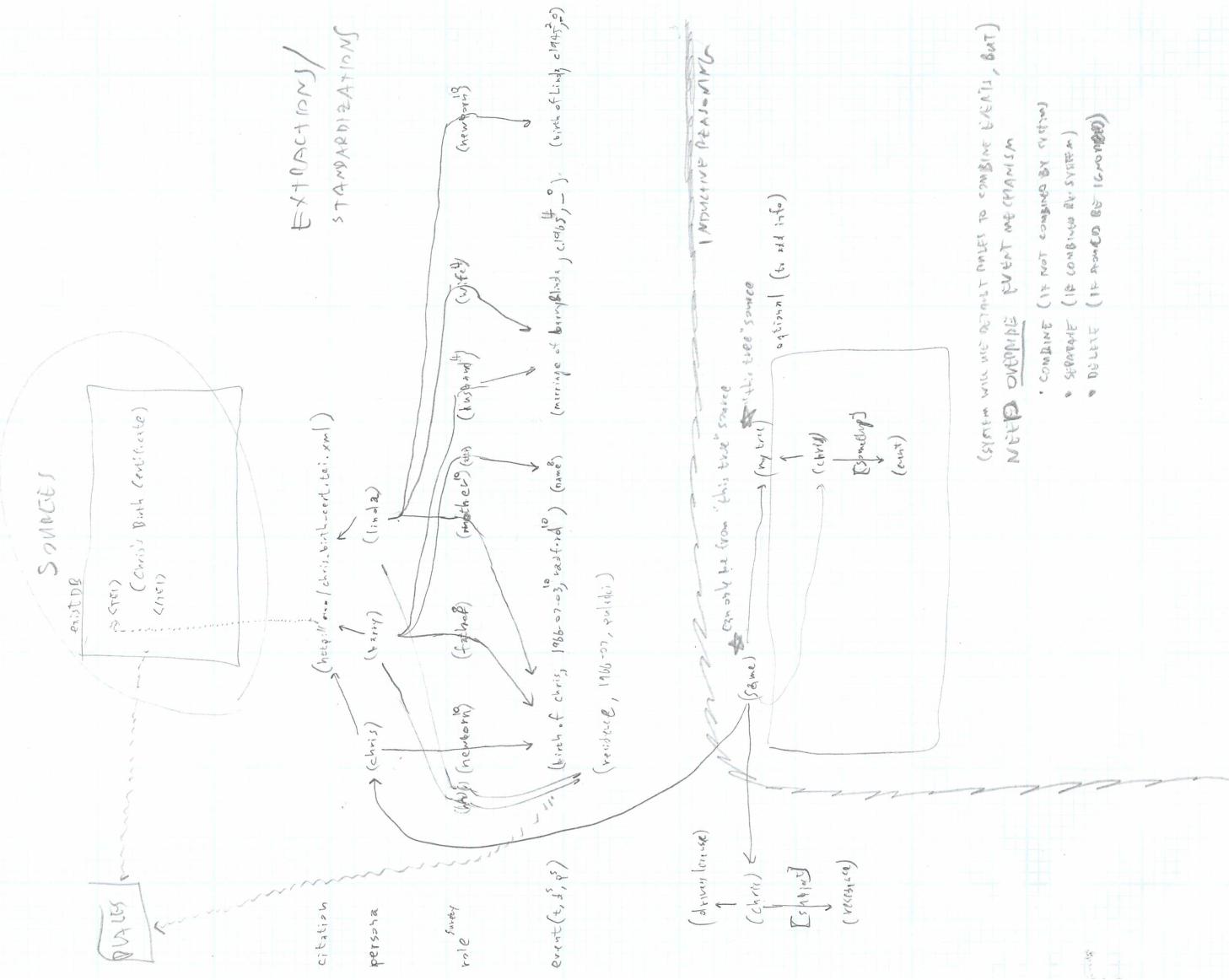








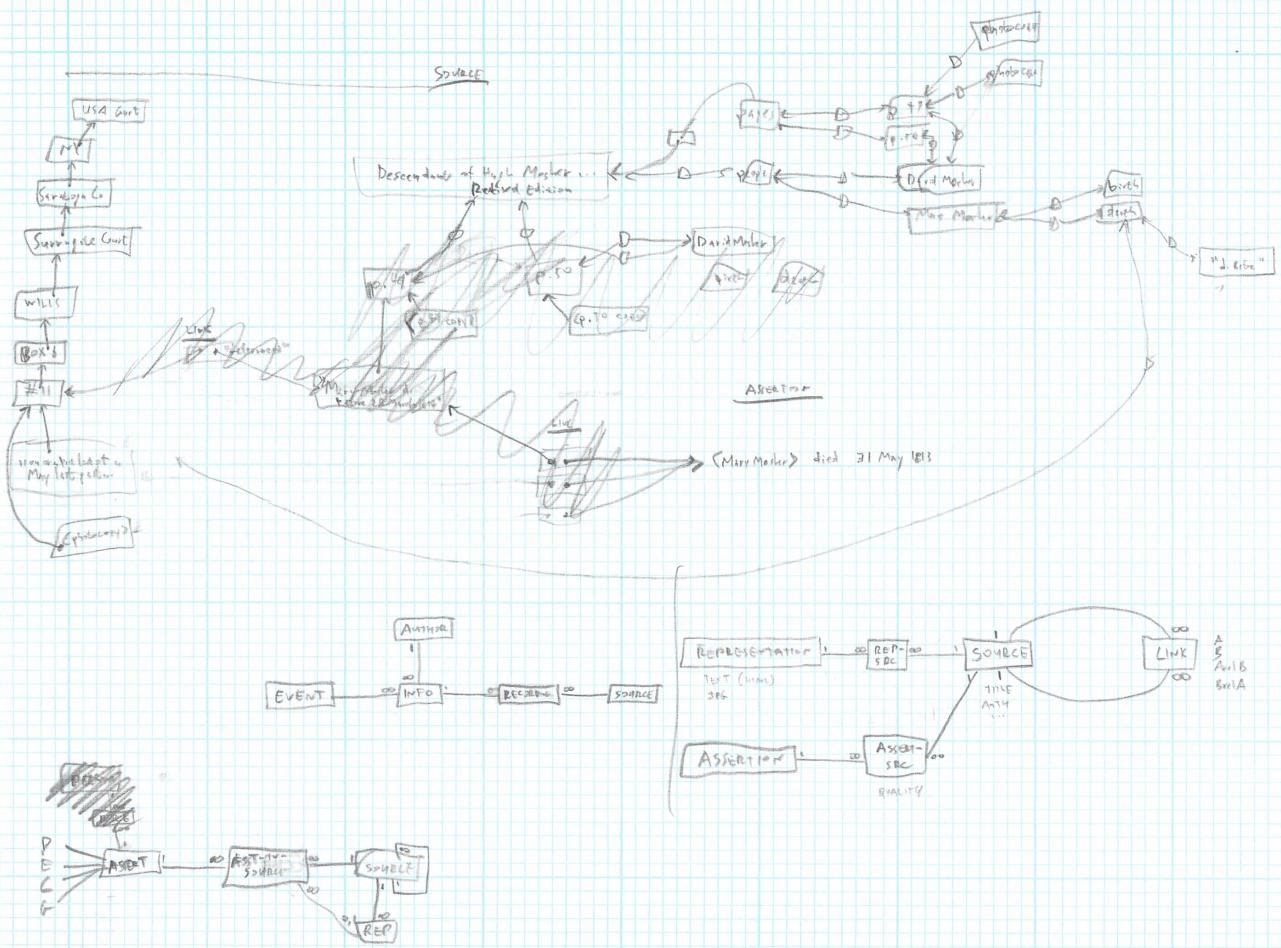
SOURCES



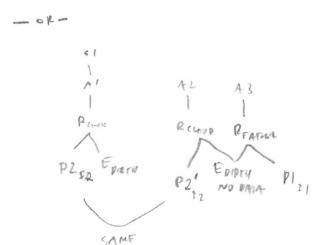
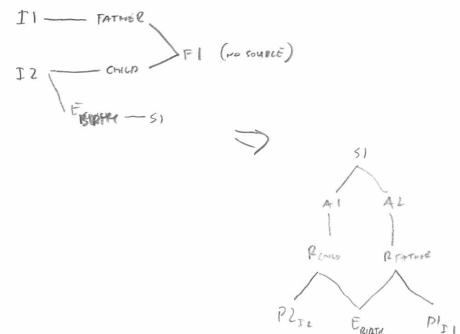
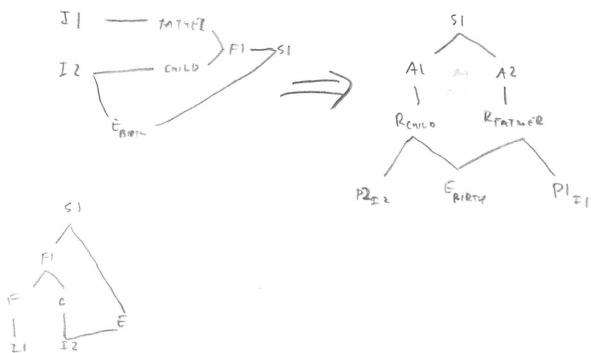
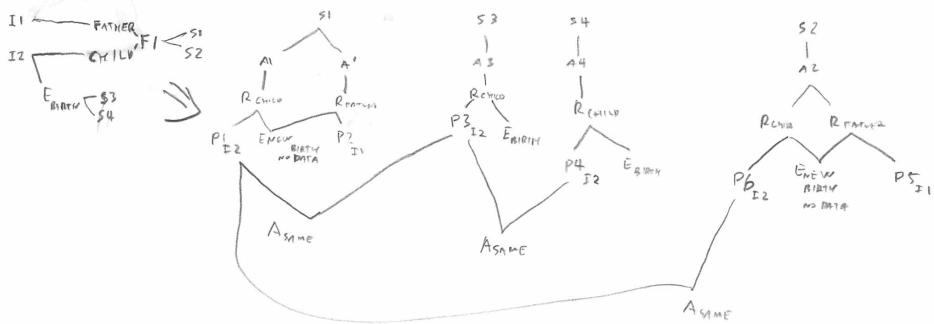
(System will use certain rules to combine Entity, but)

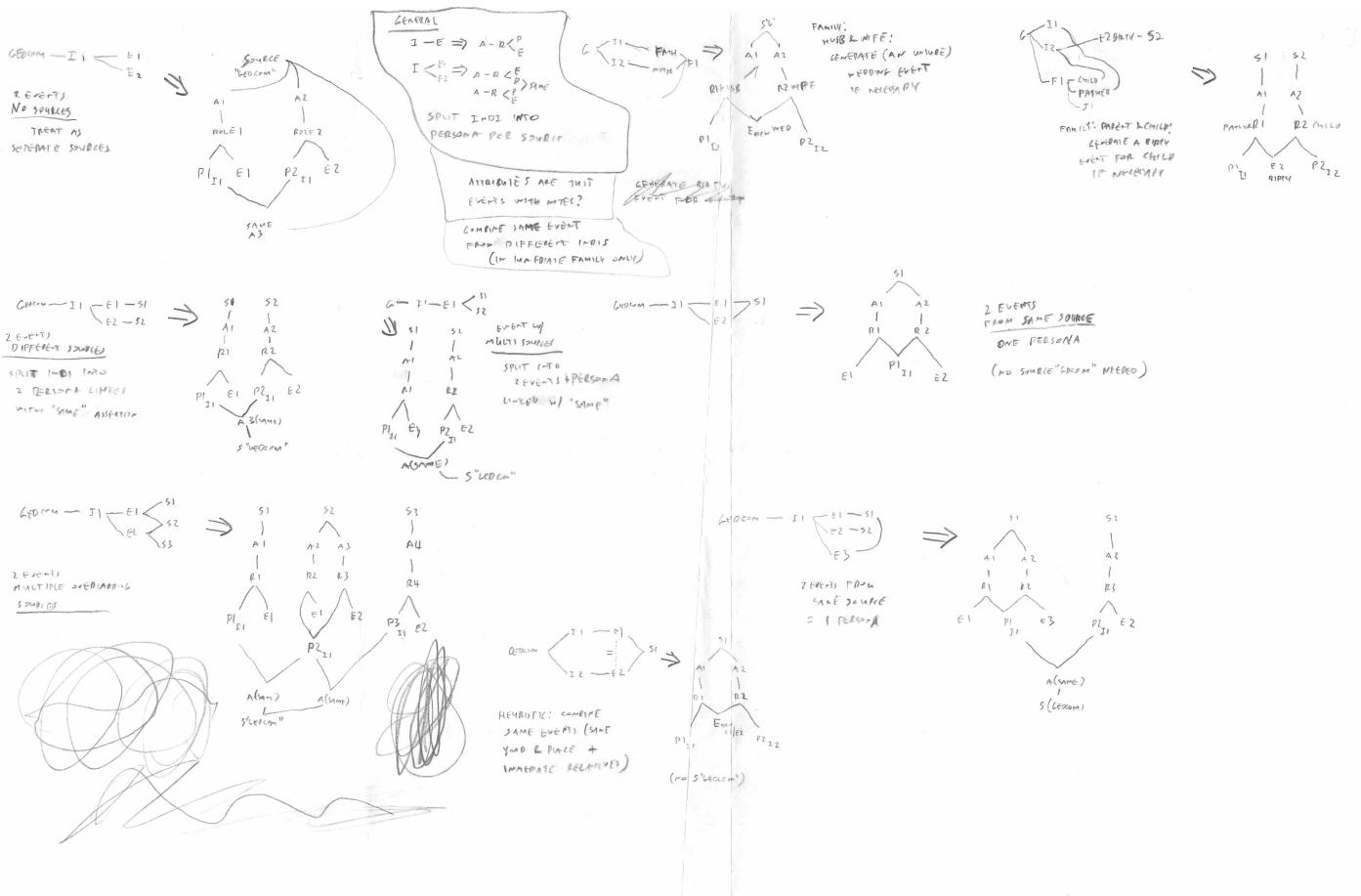
ENTITY OUTCOMES

- **Combine** (if not combined by system)
- **Separate** (if combined by system)
- **Delete** (if combined by system)

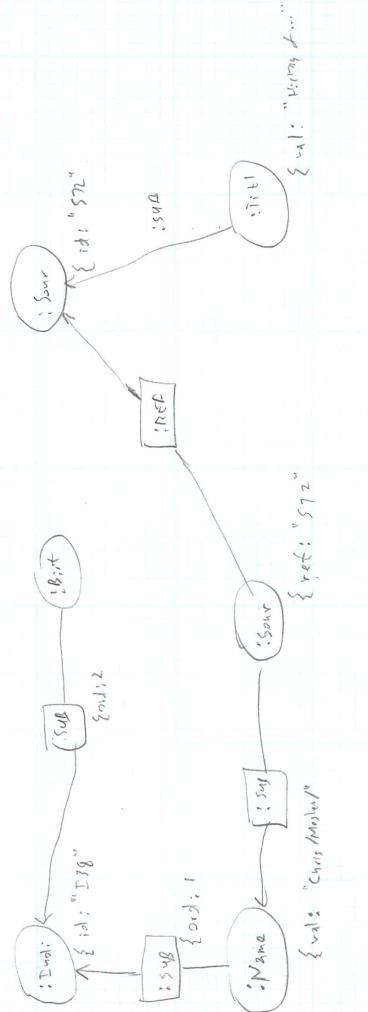


FAMILY: PARENT/CHILD;
MOT GENERAL CASE





graph TD; A((A)) --> B((B)); B --> C((C)); C --> D((D)); D --> E((E)); E --> F((F)); F --> G((G)); G --> H((H)); H --> I((I)); I --> J((J)); J --> K((K)); K --> L((L)); L --> M((M)); M --> N((N)); N --> O((O)); O --> P((P)); P --> Q((Q)); Q --> R((R)); R --> S((S)); S --> T((T)); T --> U((U)); U --> V((V)); V --> W((W)); W --> X((X)); X --> Y((Y)); Y --> Z((Z)); Z --> A;



M = morph, with year

F = of, or from

T = to

Y, X = entity

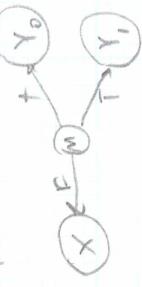


creation
destabilization

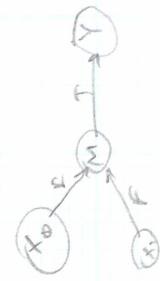
transformation



split



merger



extraction



subsumption



Morph
From
To

try (1) (2) (3) ppe M!

F T Aligned?

	F	T	Aligned?
1 -	0	X	<u>no change</u>
1 -	0	V	creation { $\textcircled{N} \xrightarrow{\text{F}} \textcircled{X}$ }
0	2	V	multiple creation { $\textcircled{N} \xrightarrow{\text{T}} \textcircled{V}$ }
1	2	V	destruction { $\textcircled{X} \xleftarrow{\text{F}} \textcircled{O}$ }
1 -	1	V	transfer { $\textcircled{O} \xleftarrow{\text{F}} \textcircled{N} \xrightarrow{\text{T}} \textcircled{V}$ }
2 -	1	V	transfer { $\textcircled{O} \xleftarrow{\text{F}} \textcircled{N} \xrightarrow{\text{T}} \textcircled{V}$ }
1 -	1	N	split { $\textcircled{X} \xleftarrow{\text{F}} \textcircled{O} \xrightarrow{\text{T}} \textcircled{V}$ }
1 -	N	O	multiple division { $\textcircled{O} \xleftarrow{\text{F}} \textcircled{O}_1 \textcircled{O}_2 \dots \textcircled{O}_n$ }
3 -	N	1	merge { $\textcircled{O}_1 \textcircled{O}_2 \dots \textcircled{O}_n \xrightarrow{\text{F}} \textcircled{N}$ }
3 -	N	N	<u>multiple</u>

No self?



$X = Y$ or $|2$

$X = Y$ or $|1$

$X = Y$

$X = Y$

$\textcircled{X} \xrightarrow{\text{F}} \textcircled{Y}$

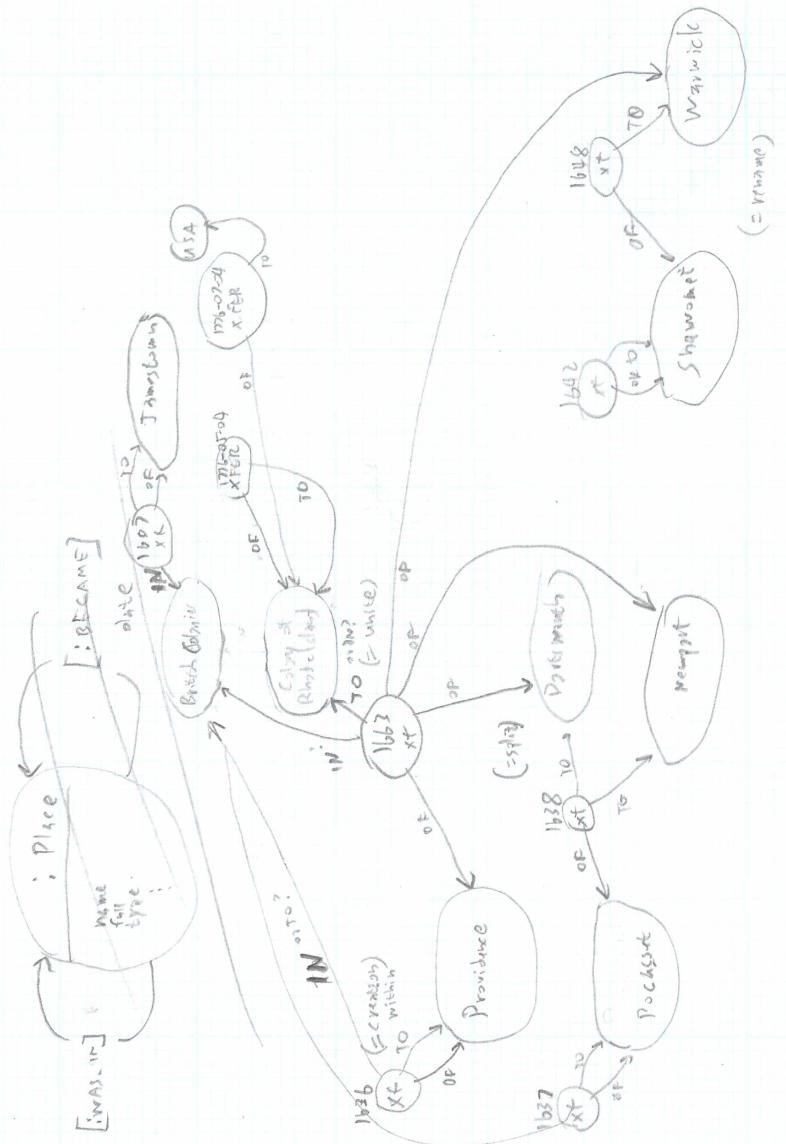
$\textcircled{Y} \xrightarrow{\text{T}} \textcircled{X}$

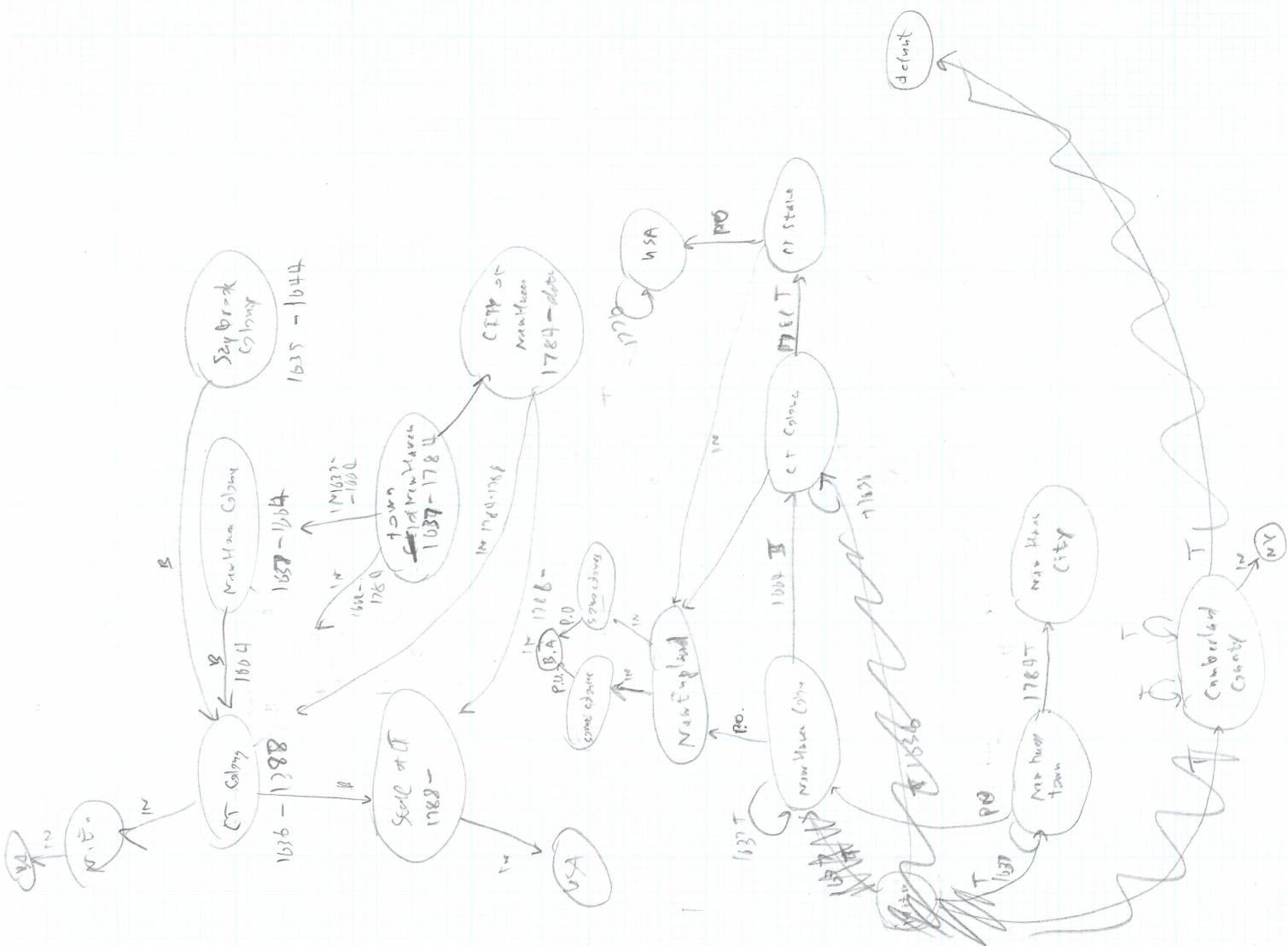
$\textcircled{X} \xrightarrow{\text{T}} \textcircled{Y}$

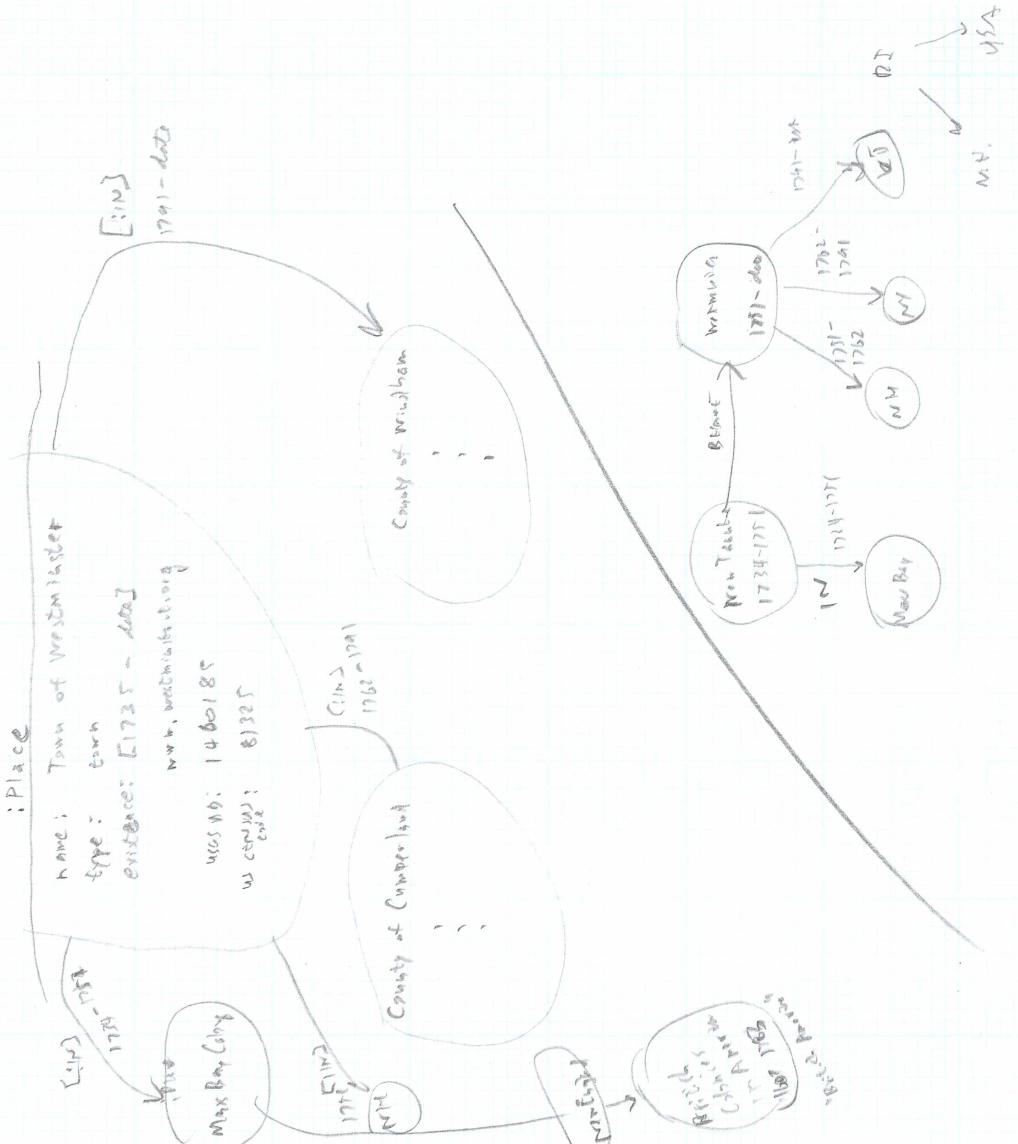
$\textcircled{Y} \xrightarrow{\text{F}} \textcircled{X}$

$\textcircled{X} \xrightarrow{\text{N}} \textcircled{X}$

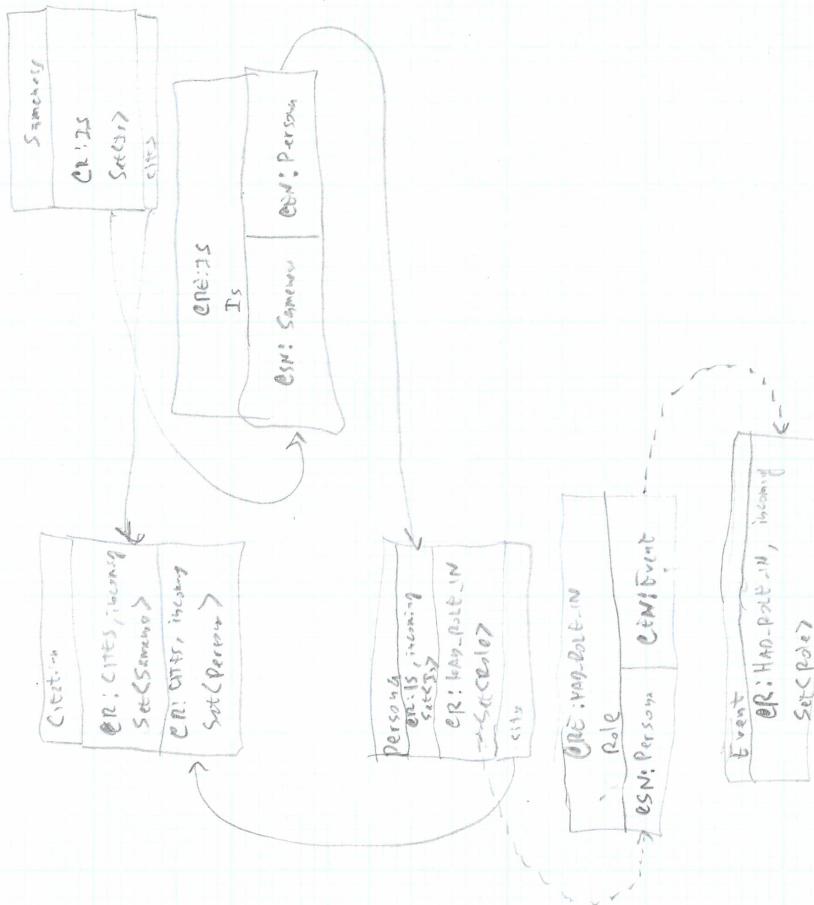
$\textcircled{Y} \xrightarrow{\text{N}} \textcircled{Y}$

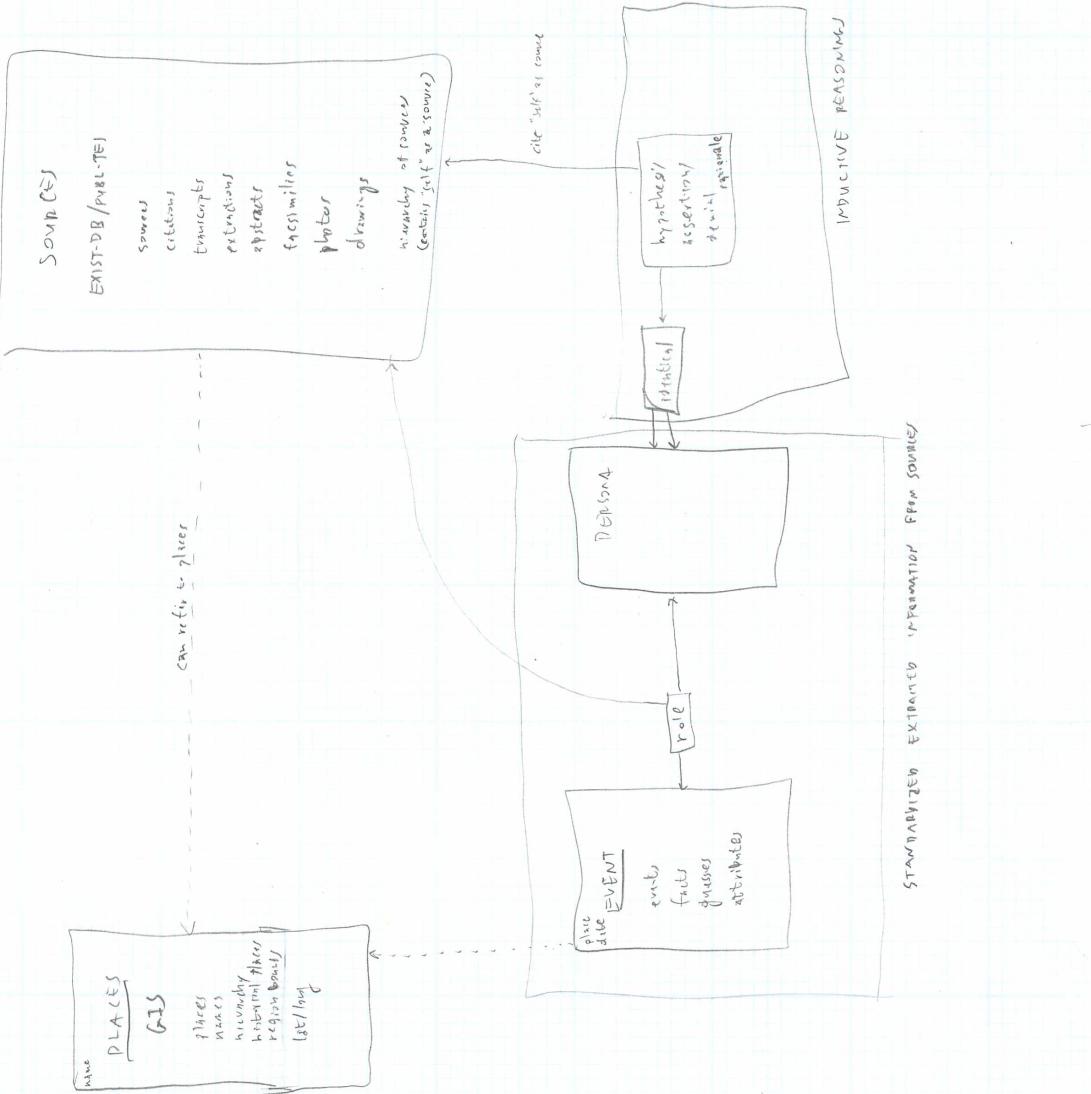






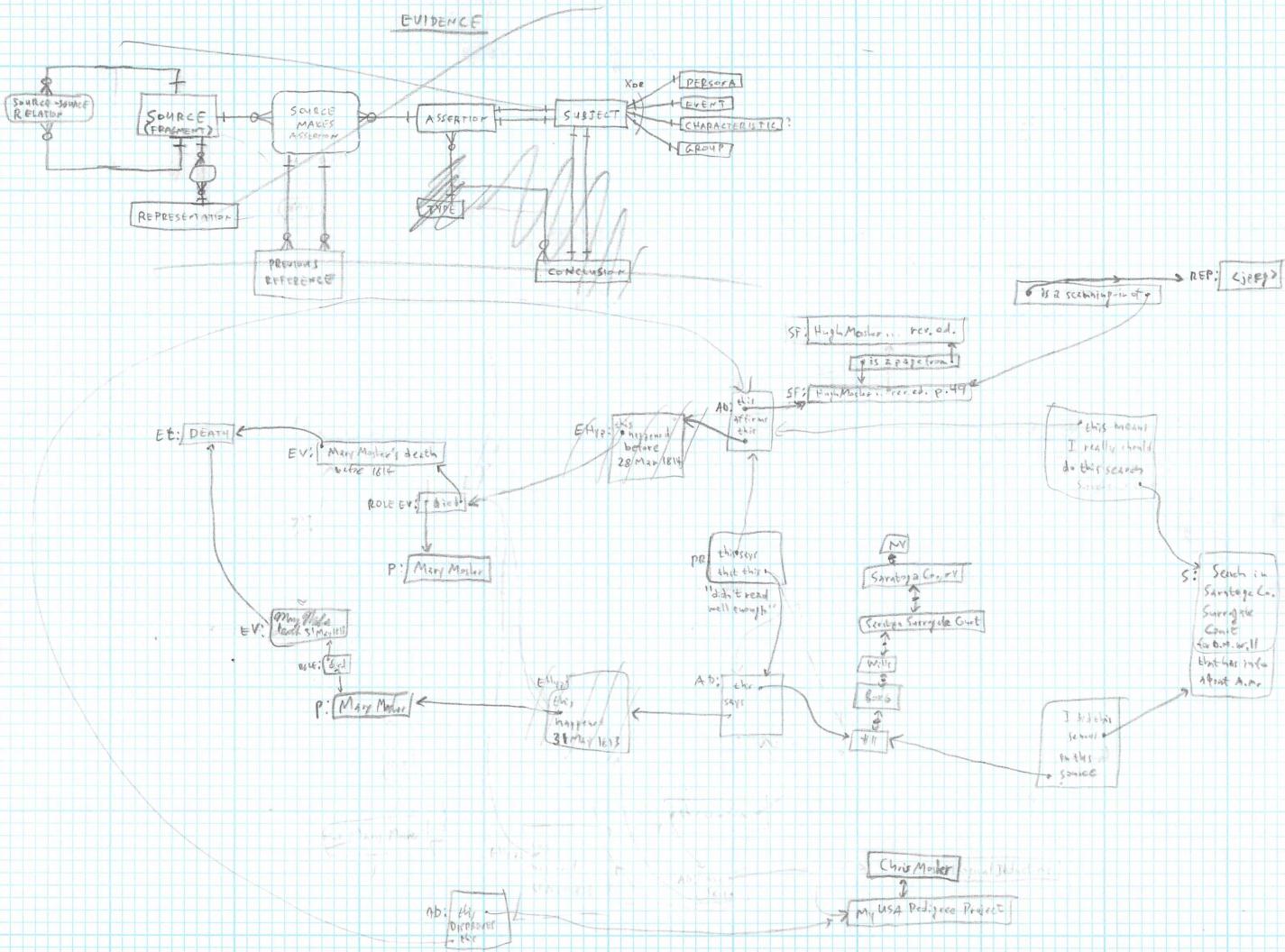
Objekt

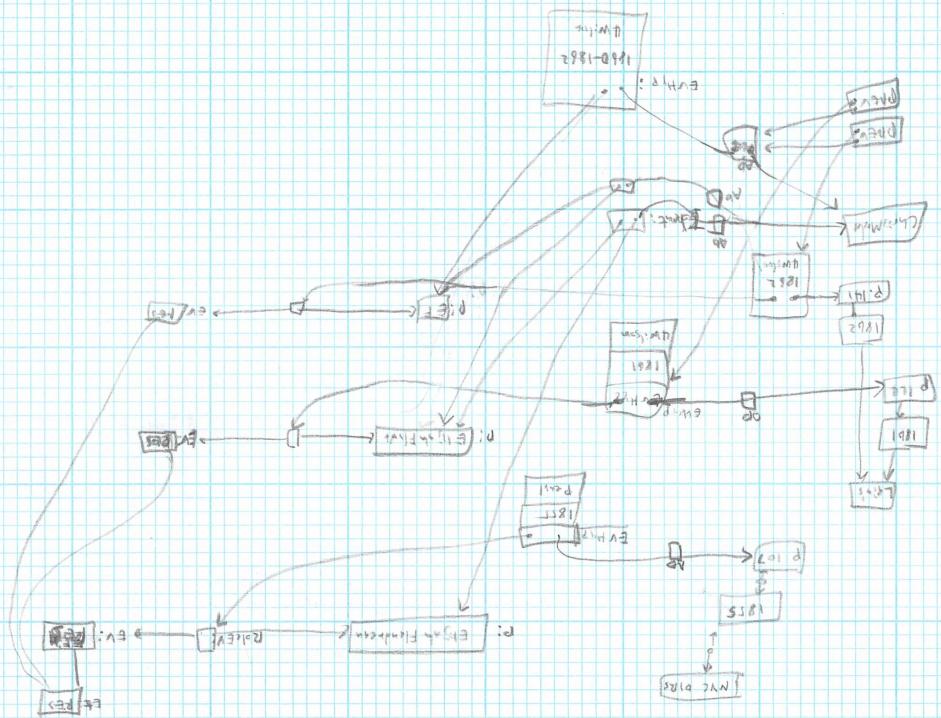




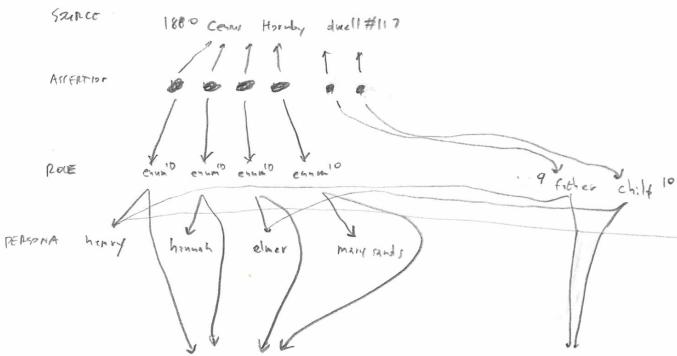
STRUCTURALIZE THE EXTRACTED INFORMATION FROM SOURCES

PROACTIVE PREDICTION

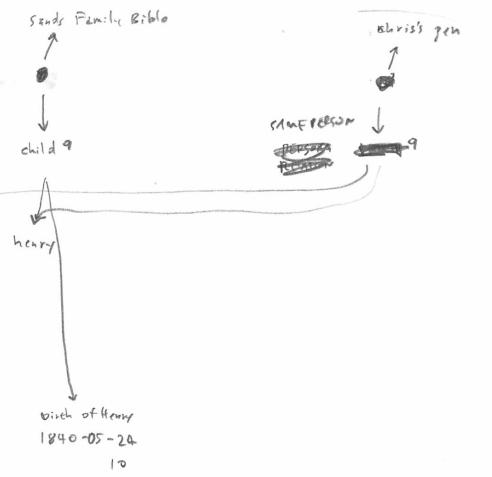


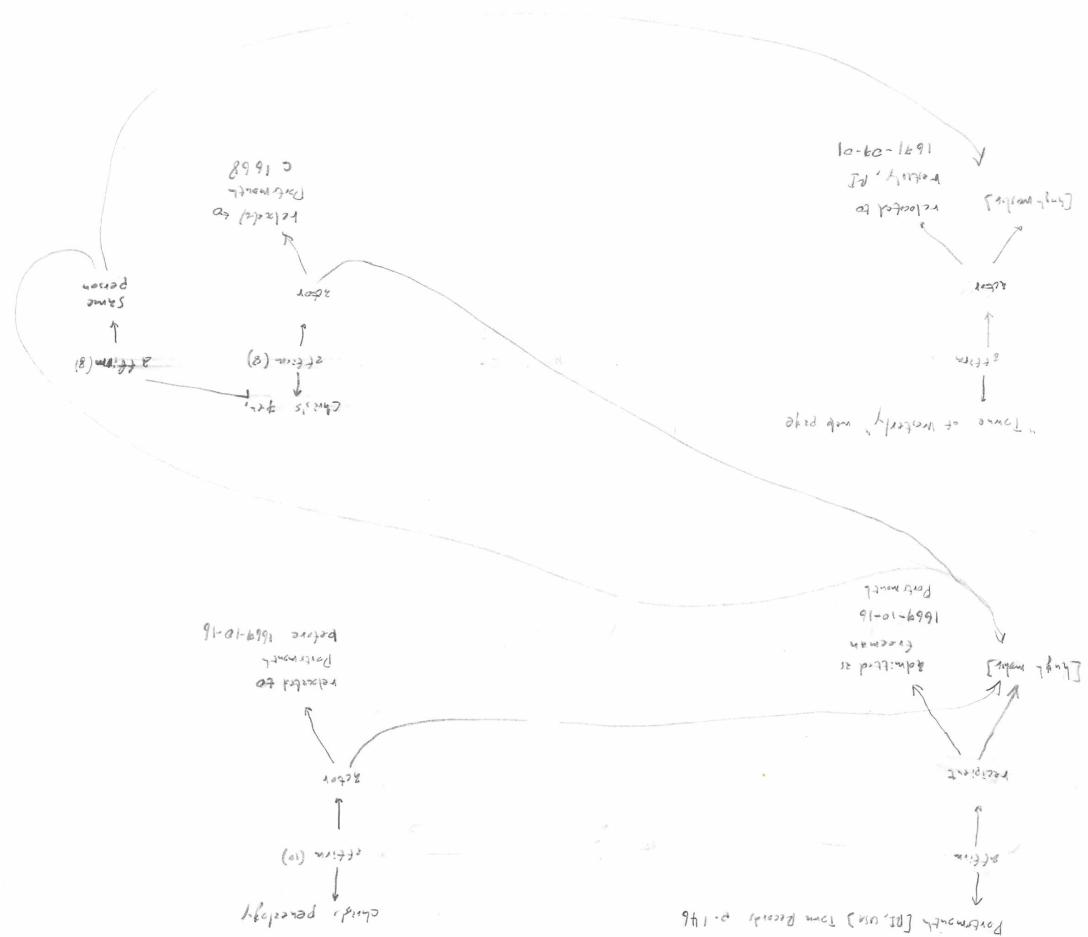


Normal entry of source (other info that's available directly in the source, with out conjecture on your part)



Another source about (espno) the same person





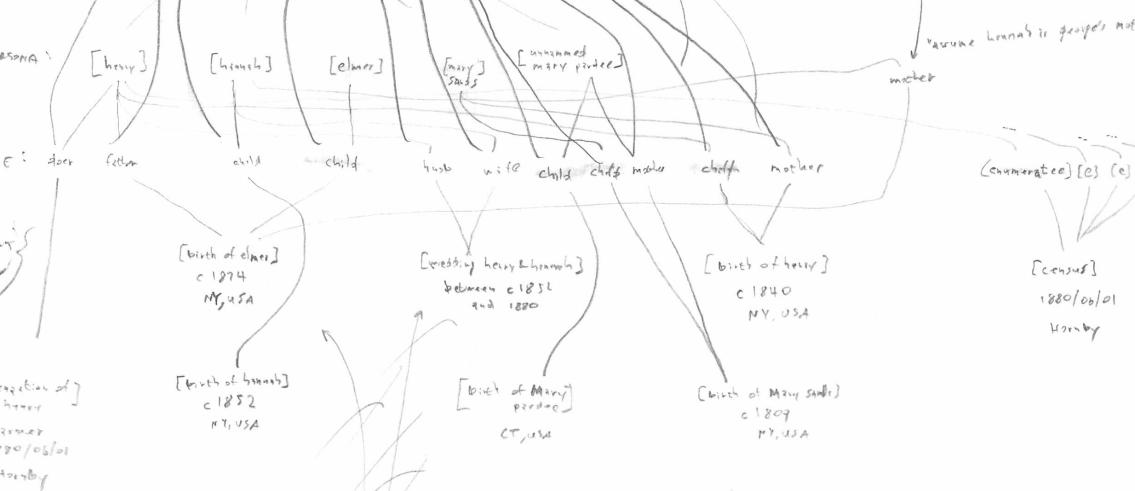
example

SOURCE: [US Census, 1880, NY, Steuben, Montay, block #17]



example of Chris inferring something additional about a source

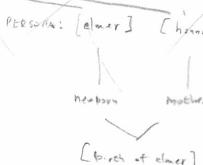
[Chris' mother's genealogy of US direct ancestors]

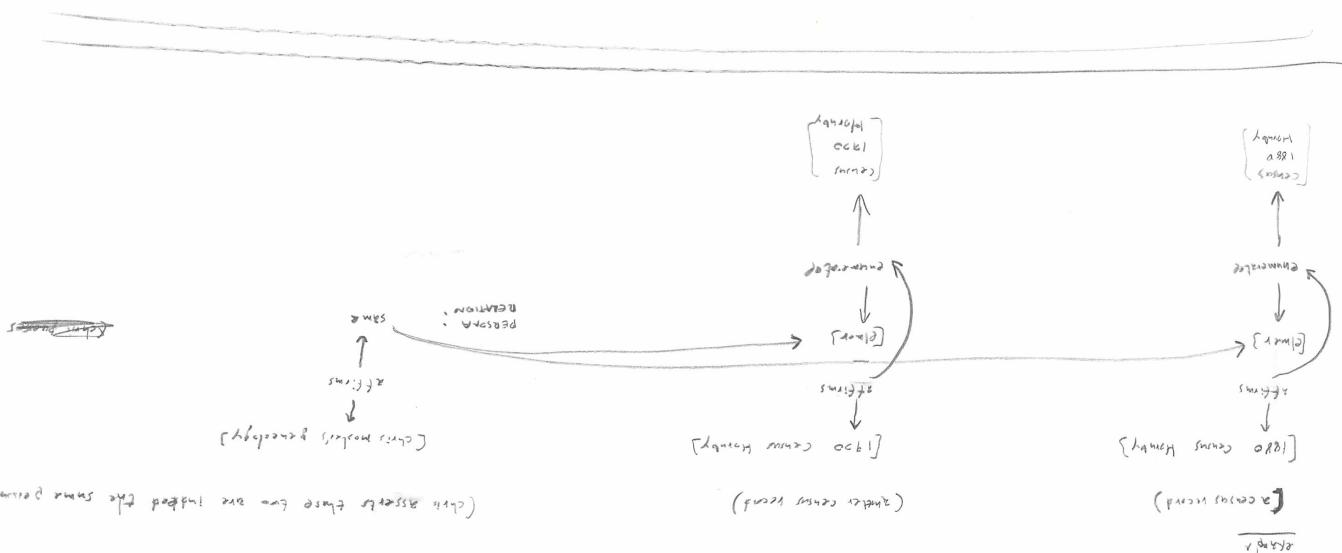
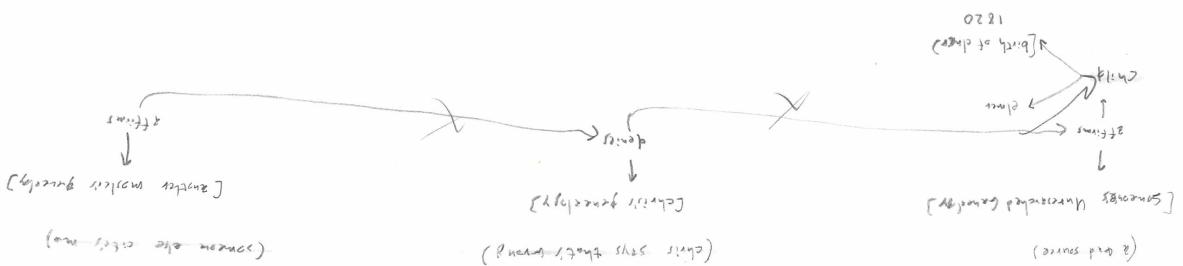


ASSERTION:

"Since Henry had only one wife, assume
Henrich is Elmer's mother."

SOURCE: [Chris' mother's genealogy]





Citation (no matches)

Brett Hartmann:
uni:

Entity Person

DATE
YYYY-MM-DD (1990)
PLACE
TRENT
PUBLISHER
links (none) link (none)

:

Person

idint: Linda

citation: Brett

Event

YYYY-MM-DD (none)
(winter 1995) [child]

;

Cross references (according to "Brett Linda General")

link link link

refers to ...

Citation (matches observation)

Unit:
uni:

Conclusion:

Because Father
is Link General
is Link General

Matching (char)

\$ after < 1st

because:

key ← (from T)

(initial)

(current)

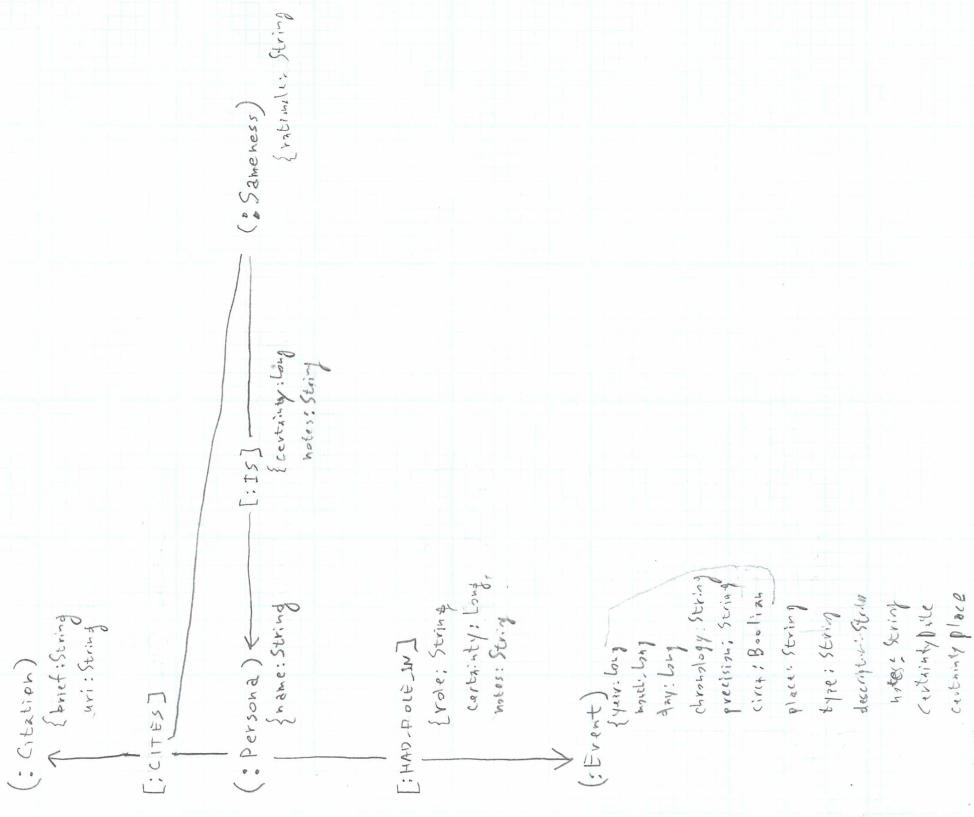
(compare first)

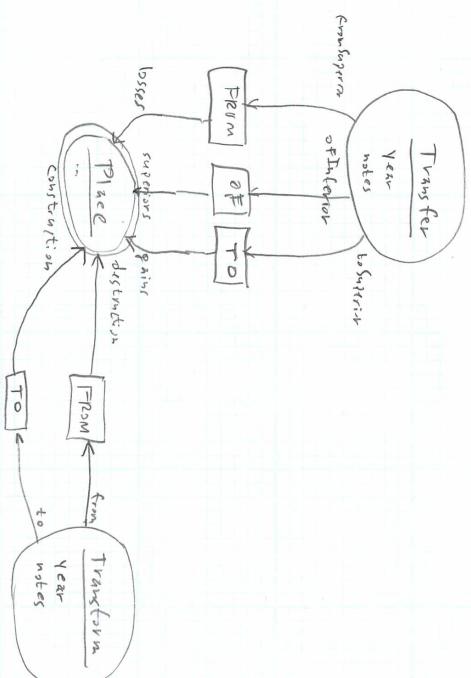
(compare next)

:

below







PLACE

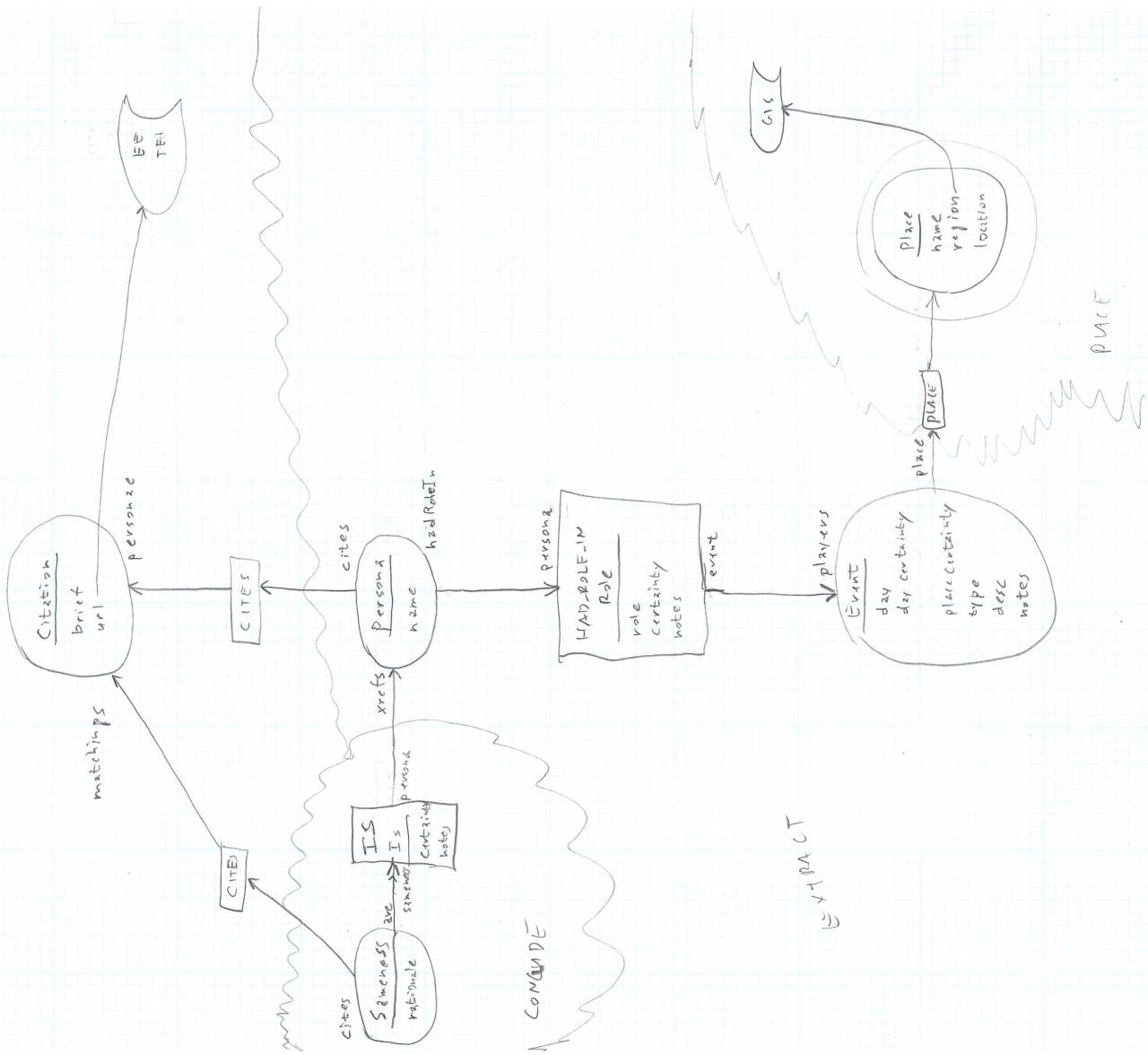
Places

SOURCE

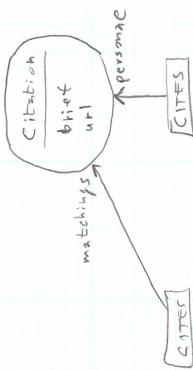
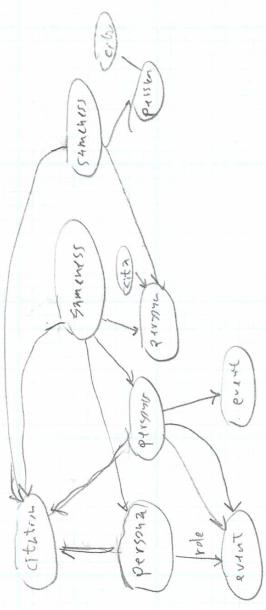
Source

target

SOURCE



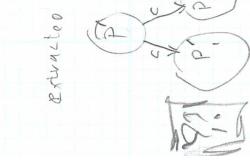
PART



$P = \text{plane}$

$T = \text{transformed into}$

$C = \text{was composed of}$



creation

transformation

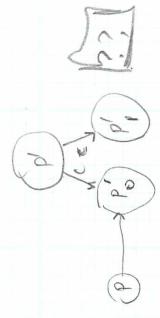
target

creation

transformation

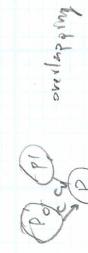
target

summed



summed

summed



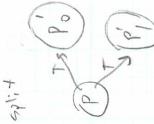
atomic and direct

atomic and direct



overlapping

overlapping



split

split

transformation



merger

