

Implementation of Personal Name Authority Records in Resources Description and Access (RDA): An experimental Study for Biography Databases

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Abstract:

Databases are some of the fundamental components of human knowledge. Biography databases which are based on inventory data of persons, entities, and institutions are extremely important to human knowledge.

The development and establishment of biography databases have seen many changes in the form of bibliographic records building for the data elements of any persons and institutions, The main goal of these changes was to display the different sorts of data in a standardized and unified ways for community audience.¹

The research team has noticed, however, a lack of scientific basis for the construction of record elements of bibliographic adopted integrated automated library management systems. Therefore, the purpose of this study is to conduct to unique study by applying an unprecedented treatment of Biographical data according to the new rules for the Personal Name Authority Record Elements.²

The current study is unique as it uses global scientific rules to build a database of persons and institutions elements which are connected to rules of (Resources Description and Access-RDA).³ These rules have been adopted by the Library of Congress since April 2013. They are

*the basis of indexing elements of (Machine Readable Cataloging) (MARC). They were adopted under (Personal Name Authority Record Elements) as follows:*⁴

- *The Special Coded Dates: The field code (046) that related to display all birth and death dates for persons, the foundation for the corporate.*
- *The Other Attributes for the Person or any related Corporate, the field code (368) that includes designations of the title of a person or any specific characteristic data for the corporate.*
- *The Associated place, the field code (370) that related with person's town, city, and villages.*
- *Address, The field code (371) regarding the specific address for either person or corporate.*
- *Field of Activity, the field code (372) for the activity of the person or corporate specialization.*
- *Associated Group, the field code (373) that related to corporate, association, association, etc.*
- *Occupation, the field code (374) related ~~with~~ to the person's nature of job.*
- *Gender, the field code (375) related to gender kind for each person.*
- *Family information, the field code (376) for a specific data according the family.*
- *Associate Language, The field code (377) that describes the language or languages that a person is using.*
- *Fuller Form of Person Name, the field code (378) that is used for the fuller person name to differentiate for the similar authority entries.*
- *Form of Work, The field code (380) related to the nature of the person's work.*
- *Other Distinguishing Characteristics, the field code (381) related to any other special information for the work.*
- *Medium of Performance, the field code (382) that describe the person's musical work.*
- *Numeric Designation of Musical Work, the field code (383) for specific data for the musical numeric.*
- *Key, the field code (384) for the set of pitch.*

Keywords: Resources Description and Access (RDA); Personal Name Authority Records; Biography Databases; Authority Names; See from tracing fields: Electronic Location and Access.

1. Introduction

Automation in libraries and information centers dates back to the 1950s, the pilot project that led to the progress for MARC in 1965, A lot of libraries and information centers participated in the distribution of early MARC in version 1 for the bibliographical records, MARC II have been found as successful result project for Library of Congress, The official association that care for the cataloging rule around the world, the new rules are exploded in 1970s, by the end of 1990s the new rules have been found as replacement for AACR2 with a new name, Resources Description and Access (RDA).

(RDA) is a new content standard for describing different sorts of resources, these rules which will replace the AACR2, RDA is also an implementation of the FRBR and FRAD models.⁵ The MARC 21 Format for Authority Data will also produce many especially the elements of (address, associated places, activity, occupation, gender, affiliation, and family information.⁶ The Library of Congress and other Participation national libraries all over the world have been adopted RDA on March 31, 2013 as activating date⁷.

RDA enables the discovery and process the necessary technical operations for many various recorded knowledge, that mean that any information resource conveying information, also mean that any resource transmitting intellectual or artistic content can be fixed by RDA.⁸ RDA is an integrated and multidimensional for different operation to fix the elements in both of the cataloging needs and the components of MARC.⁹

Persons, corporates are complex, with not enough technical processing especially for the authority files, so the edition of RDA tried to cover and fix this shortage as possible, through a lot of various elements for authority records regarding person attributes.¹⁰

1.1 Study Importance

A serious challenge and important for those engaged in search and instruction regarding The imposition of the issuance (RDA) in April 2013, practice and application, majoring in libraries, documentation and information in general, for the following issues as follows:

1.1.1 The Theoretical basis for this standard rules, and its structure, as well as the expected effects on the technologies and electronic resource channels which used in the detection of information resources in the digital environment

1.1.2

1.1.3 This standard rules alternative to "AACR 2", the rules that adopted by the library and information community.

1.2 Study Aims

The research major aims as follows:

1.2.1 The ideal procedure for the application of **Personal Name Authority Records**

1.2.2 Upgrading and building the composition rules for the biographical data specific fields for both (persons - institutions)

1.2.3 Create referrals and integrated relationship for the authority names with using 4XX.

1.2.4 Providing a leading applied study as a model for essential work to build an integrated system for the management of libraries (Library Integrated Systems), this based on the (Machine Readable Cataloging).

1.2.5 Providing accurate and comprehensive information for this standard to describe: nature, theoretical basis, terminology used, functions, structure and its components.

1.2.6 Possibility for import and export bibliographic records with the new **Personal Name Authority fields** among the adopted associations.

1.2.7 Upgrading the combination rules for the biographical data fields of **MARC** formats.

1.2.8 Introduce a new application to adjust **Personal Name Authority fields** with 400-485, the **See from tracing fields**.

1.2.9 Providing leading and empirical Study as an essential model for the Library Integrated Systems (ILS) that working under both of **MARC** formats and **RDA**.

1.2.10 Treatment and support the formulation of **Personal Name Authority fields** in both Bilingual and multi languages.

1.2.11 Linking the different types of search (Basic – Headings – Advance) with **Personal Name Authority fields** and Authority Names 1XX.

1.2.12 The ability to display **Personal Name Authority fields in search results** under Authority Names 1XX.

1.2.13 activating the Hypertext field 856 to upload a copy of the resumes for the Authority name (PDF-Images-Audiovisual Materials etc.).

1.3 Method

The study will be based on the use of the experimental application method, using one of the integrated library systems (Symphony) to apply the new **Personal Name Authority fields**.

2. Discussion

First collection:¹¹ the application and experimental for the new **Personal Name Authority fields** as follows:

2.1 046- Special Coded Dates¹²

- **Field Function, definition and specific scope:**

This field contains related dates that are associated with the main entry 1XX, to describe the person's data as his birth date, and death, the foundation date, period of activity and

date for both, also uses for the corporate establishment coverage, date of termination, period regarding activity, Also this field process the family significant date.¹³

- **Field Components and specific function description:**

Subfield Code	Subfield Description
\$f	Birth date for person – Foundation Date for corporate
\$g	Death date for Person – End for corporate
\$k	Beginning date created
\$l	Ending date created
\$o	Single or starting date for aggregated content
\$p	Ending date for aggregated content
\$q	Establishment date
\$r	Termination date
\$s	Start period for both person or corporate
\$t	End period for both person or corporate
\$u	Uniform Resource Identifier for both person or corporate
\$v	The original source of information
\$2	Specific source of date scheme for both person or corporate
\$6	Linkage – official electronic linkage - URL
\$8	Field link for both person or corporate and attached sequence number

- **Applying content Designator- MARC- Personal Name Authority Records**

046 ##\$f1971

100 1#\$aMurad, Ali,\$d1971-

400 1#\$aMourad, Aly,\$d1971-

2.2 368 - Other Attributes of Person or Corporate Body¹⁴

- **Field Function, definition and specific scope:**

This Field contains all attributes that serving to characterize for both of person or corporate body include designations character such as the specific title of person or other related attributes, also the corporate body to include designations indicating the type of corporate, foundation, institution body, jurisdiction, or any other sorts of attributes, this field used as repeatable field.

- **Field Components and specific function description:**

Subfield Code	Subfield Description
\$a	Type of (corporate body)
\$b	Type of (jurisdiction)
\$c	Other designation, this subfield has been redefined in 2012
\$d	Title of person, this is a new subfield [founded in 2012]
\$s	Start period, this is a new subfield [founded in 2012]
\$t	End period, this is a new subfield [founded in 2012]
\$u	Uniform Resource Identifier, this is a new subfield [founded in 2012]
\$v	Uniform Resource Identifier, this is a new subfield [founded in 2012]

- **Applying content Designator- MARC- Personal Name Authority Records**

110 2#\$ambc FM (Local radio station)
 368 ##\$aRadio station
 151 ##\$aJahraa (Kuwait)
 368 ##\$bTown
 100 0#\$aShaarawi , \$cImam, \$d1927-2005
 368 ##\$cImam

2.3 371- Address¹⁵

- **Field Function, definition and specific scope:**

This field display the address contains for towns, cities, provinces, states, countries associated with person, corporate bodies, also families, different types of works, and expressions, this field is available to be used as repeatable field.

- **Field Components and specific function description:**

Subfield Code	Subfield Description
\$a	Birth date for person – Foundation Date for corporate
\$b	Death date for Person – End for corporate
\$c	Associated country

\$e	Place of residence for person /headquarters for corporate
\$f	Other associated place
\$g	Place of origin of work
\$s	Start period for person residence – corporate official address
\$t	End period for person residence – corporate official address
\$u	Uniform Resource Identifier
\$v	The original source of information
\$0	Record control number
\$2	Source of term
\$6	Linkage – official electronic linkage - URL
\$8	Field link and sequence number for both person or corporate

- Applying content Designator- MARC- Personal Name Authority Records

2.4 372- Field of Activity¹⁶

- **Field Function, definition and specific scope:**

This field contains the person endeavor, area of expertise, for the corporate cover the engaged, area of competence, responsibility, jurisdiction, this field used as repeatable field.

- **Field Components and specific function description:**

Subfield Code	Subfield Description
\$a	Field of activity for both person or corporate
\$s	Start period for field of activity
\$t	End period for field of activity
\$u	Uniform Resource Identifier
\$v	The original source of information
\$0	Record control number
\$2	Source of term
\$6	Linkage – official electronic linkage - URL
\$8	Field link and sequence number

- Applying content Designator- MARC- Personal Name Authority Records

100 1#\$aZidan, Mohammad\$football player

372 ##\$afootball player

110 2#\$aNorther Border University

372 ##\$ Northern Border University has been founded in 2007 to serve the education local community in the northern Border region in Saudi Arabia, the main quarters in Arar city, the university have 2 large branches in both of Rafhaa, Owayqila, and Turaif, the university produce a lot of educational fields such as Medicine, Science, Pharmacy, Arts, Business Administration and Computer Science.

2.5 373- Associated Group¹⁷

- **Field Function, definition and specific scope:**

This field contains information about a the group, as company, institution, association, etc., that associated with the main entry in the 1XX, as field 110, this field is only repeated in case the person has multiple affiliations related with different time periods only.

- **Field Components and specific function description:**

Subfield Code	Subfield Description
\$a	Associated data for group
\$s	Start period for group
\$t	End period for group
\$u	Uniform Resource Identifier
\$v	The original source of information
\$0	Record control number
\$2	Source of term
\$6	Linkage – official electronic linkage - URL
\$8	Field link and sequence number

- **Applying content Designator- MARC- Personal Name Authority Records**

100 1#\$aShalabeya, Osama

373 ##\$aFaculty of Science, Cairo University\$s1980\$t2010

373 ##\$aFaculty of Science, Northern Border University\$s2010

2.6 374- Occupation¹⁸

- **Field Function, definition and specific scope:**

This field contains specific information about the profession or occupation in which a person work, career including dates applicable in this specific occupation, this field used as repeatable field.

- **Field Components and specific function description:**

Subfield Code	Subfield Description
\$a	Occupation
\$s	Start period for this occupation
\$t	End period for this occupation
\$u	Uniform Resource Identifier
\$v	The original source of information
\$0	Record control number
\$2	Source of term
\$6	Linkage – official electronic linkage - URL
\$8	Field link and sequence number

- **Applying content Designator- MARC- Personal Name Authority Records**

100 1#\$aAziz, Morsy Gameel,\$d1956-
374 ##\$aWriter\$2[code for controlled vocabulary]

2.7 375- Gender¹⁹

- **Field Function, definition and specific scope:**

This field contains information about the gender case of a person, with the related dates applicable, this field used as repeatable field.

- **Field Components and specific function description:**

Subfield Code	Subfield Description
\$a	Gender
\$s	Start period for gender
\$t	End period for gender
\$u	Uniform Resource Identifier
\$v	The original source of information

\$2	Source of term
\$6	Linkage – official electronic linkage - URL
\$8	Field link and sequence number

- **Applying content Designator- MARC- Personal Name Authority Records**

100 1#\$aSalama, Wafaa,\$d1976-
375 ##\$afemale\$s1976

2.8 376- Family Information²⁰

- **Field Function, definition and specific scope:**

This field contains additional information about the person family, with the related type of family, prominent member of the family, and hereditary title as possible, this field used as repeatable field.

- **Field Components and specific function description:**

Subfield Code	Subfield Description
\$a	Type of family
\$b	Name of prominent member
\$c	Hereditary of family title
\$s	Start period for family title
\$t	End period for family title
\$u	Uniform Resource Identifier
\$v	The original source of information
\$0	Record control number
\$2	Source of term
\$6	Linkage – official electronic linkage - URL
\$8	Field link and sequence number

- **Applying content Designator- MARC- Personal Name Authority Records**

100 3#\$aSawalha (Family)
400 3#\$aSawalhi (Family)
376 ##\$aFamily\$cMayor of Al Zarqaa\$s1934

2.9 378 Fuller Form of Personal Name²¹

- **Field Function, definition and specific scope:**

This field contains a unique and origin name element that used to distinguish a person from another with the same name, this field applies only to the name in the 1XX, this field is not allowed to be a repeatable.

- **Field Components and specific function description:**

Subfield Code	Subfield Description
\$q	Fuller form of personal name
\$u	Uniform Resource Identifier
\$v	The original source of information
\$6	Linkage – official electronic linkage - URL
\$8	Field link and sequence number

- **Applying content Designator- MARC- Personal Name Authority Records**

100 0#\$aH. Taha.\$q(Taha Hussain)

378 ##\$qTaha Hussain

Second collection: The New MARC Authority and Bibliographic fields for work and expression attributes:

2.9 370 – Associated Place²²

- **Field Function, definition and specific scope:**

This field contains a town, city, province, state, or country associated with persons, corporate bodies, families, works, and expressions, this field used as repeatable field.

- **Field Components and specific function description:**

Subfield Code	Subfield Description
\$a	Birth date for person – Foundation Date for corporate
\$b	Death date for Person – End for corporate
\$c	Associated country
\$e	Place of residence for person /headquarters for corporate
\$f	Other associated place
\$g	Place of origin of work
\$s	Start period
\$t	End period
\$u	Uniform Resource Identifier
\$v	The original source of information
\$0	Record control number
\$2	Source of term
\$6	Linkage – official electronic linkage - URL
\$8	Field link and sequence number for both person or corporate

- **Applying content Designator- MARC- Personal Name Authority Records**

100 1#\$aZaghloul, Saad,\$d1856-1923.

370 ##\$aMansoura, Egypt\$bCairo, Egypt.

2.10 377- Associated Language²³

- **Field Function, definition and specific scope:**

This field contains codes for languages associated with the main entry described in the record. It includes the language a person uses when writing for publication, language of a family, or a language in which a work is expressed, this field used as repeatable.

- **Field Components and specific function description:**

Subfield Code	Subfield Description
\$a	Language code
\$1	Language term

\$2	Source of code
\$6	Linkage – official electronic linkage - URL
\$8	Field link and sequence number for both person or corporate

- **Applying content Designator- MARC- Personal Name Authority Records**

100 1#\$aTolaymat, Zaki,\$d1899-1964

377 ##\$aara\$aeng

2.11 380 – Form of Work²⁴

- **Field Function, definition and specific scope:**

This contains a class which a work belongs, this field used as repeatable.

- **Field Components and specific function description:**

Subfield Code	Subfield Description
\$a	Form of work
\$0	Record control number
\$2	Source of term
\$6	Linkage – official electronic linkage - URL
\$8	Field link and sequence number for both person or corporate

- **Applying content Designator- MARC- Personal Name Authority Records**

100 1#\$aHassan, Ahmad,\$d1962-2015.\$tOur town.

380 ##\$aIndustrial Engineering

2.12 381- Other distinguishing characteristics of Work or Expression²⁵

- **Field Function, definition and specific scope:**

This field contains any characteristic that is not accommodated in a special field that serves to characterize a work or expression, this field used as repeatable.

- **Field Components and specific function description:**

Subfield Code	Subfield Description
\$a	Other distinguishing characteristic
\$u	Uniform Resource Identifier

\$v	The original source of information
\$0	Record control number
\$2	Source of term
\$6	Linkage – official electronic linkage - URL
\$8	Field link and sequence number for both person or corporate

- **Applying content Designator- MARC- Personal Name Authority Records**

130 #0\$aResearch paper (Kuwait Institute of Scientific Research)

381 ##\$a Kuwait Institute of Scientific Research

2.13 382- Medium of performance²⁶

- **Field Function, definition and specific scope:**

This field contains the instrumental, vocal, and/or any other medium of performance for which a musical work was originally conceived or for which a musical expression is written or performed, this field used as repeatable.

- **Field Components and specific function description:**

Subfield Code	Subfield Description
\$a	Medium of performance
\$b	Soloist
\$d	Doubling instrument
\$e	Number of ensembles
\$n	Number of performers of the same medium
\$p	Alternative medium of performance
\$t	Total number of performers
\$t	End period
\$v	Note
\$0	Authority record control number or standard number
\$2	Source of term
\$6	Linkage – official electronic linkage - URL
\$8	Field link and sequence number for both person or corporate

- **Applying content Designator- MARC- Personal Name Authority Records**

100 1#\$aEdward, Jhon,\$d1937-\$tMiniatures
382 ##\$aoboe\$drams
382 ##\$adrams\$aschillo

2.14 383- Numeric Designation of Musical Work²⁷

- **Field Function, definition and specific scope:**

This field contains a serial number, opus number, or thematic index number assigned to a musical work by the composer, publisher, this field used as repeatable.

- **Field Components and specific function description:**

Subfield Code	Subfield Description
\$a	Serial number
\$b	Opus number
\$c	Thematic index number
\$d	Thematic index code
\$n	Number of performers of the same medium
\$e	Publisher associated with opus number
\$2	Source of term
\$6	Linkage – official electronic linkage - URL
\$8	Field link and sequence number

- **Applying content Designator- MARC- Personal Name Authority Records**

100 1#\$aMarco, Alberto,\$d1933-2002.\$tCimentoly dell'armoni e dell'inventiony.\$nN. 3
383 ##\$bop. 9, no. 3
383 ##\$cRV 267\$cRV 312\$cRV 292\$cRV 295
383 ##\$cF. I, 21-26

2.15 384 – Key²⁸

- **Field Function, definition and specific scope:**

This field contains the set of pitch relationships that establishes a single pitch class as a tonal center for a musical work or expression, this field is not repeatable.

- **Field Components and specific function description:**

Subfield Code	Subfield Description
\$a	Key
\$6	Linkage – official electronic linkage - URL
\$8	Field link and sequence number

- **Applying content Designator- MARC- Personal Name Authority Records**

100 1#\$aMahmoud, Wasfy A,\$d1954-2011.\$tConcertos
382 ##\$aflute
384 1#\$aD major

3. 4XX See From Tracings²⁹

- **Field Function, definition and specific scope:**

These collection of fields (*See From* tracing fields) 4XX, are usually used to identify unauthorized forms of headings and other variants not chosen as an authorized form, the following collection of (*See From* tracing fields) 4XX are repeatable.³⁰

- **Field Components and specific function description:**

Field code	Field Description	Field title
400	See from Tracing	Personal Name
410	See from Tracing	Corporate Name
411	See from Tracing	Meeting Name
448	See from Tracing	Chronological Term
450	See from Tracing	Tropical Term
451	See from Tracing	Geographic Name
455	See from Tracing	Genre/Form Term
462	See from Tracing	Medium of performance Term
480	See from Tracing	General Subdivision
481	See from Tracing	Geographic Subdivision
482	See from Tracing	Chronological Subdivision
485	See from Tracing	Form Subdivision

- **Applying content Designator- MARC- See from Tracing 4XX**

100 1#*\$a*Tharwat, Fahmy,*\$d*1966-

400 1#*\$a*Sarwat, Fahmi,*\$d*1966-

110 1#*\$a*Saudi Arabia.*\$b*Ministry of Higher Education 2.*\$l*English & Spanish

410 1#*\$a*Saudi Arabia.*\$b*Higher Foundation of Education

4. 856 - Electronic Location and Access³¹

- **Field Function, definition and specific scope:**

This field used for Information needed to locate and access electronic information as URL, attached PDF files through official storage server using URL as linkage for information.

- **Field Components and specific function description:**

Subfield Code	Subfield Description
<i>\$a</i>	Host name
<i>\$b</i>	Access number
<i>\$c</i>	Compression information
<i>\$d</i>	Path

- **Applying content Designator- MARC- Electronic Location and Access 856**

110 2#*\$a*Northern Border University.*\$b*Deanship of Scientific Research

856 4#*\$u* <http://www.nbu.edu.sa/en/Deanships/DeanshipofScientificResearch/Pages/default.aspx>

5. Results

- This study provides a pioneering vision to create integrated solutions for the biography databases under standard rules of MARC 21³²
- Display personal data for each of the biographical elements and See From tracing fields with hyperlink.
- Enable basic search for all Personal Name Authority fields
- upload the related personal files (PDF- images - clips) by using the hyperlink field 856.
- Creation of an advance and basic browsing system for the Personal Name Authority fields that is suitable for the different kinds of database users.
- Flexibility and continuity of data processing regarding Personal Name Authority data.
- Periodic updating of the biography data.
- The possibility of export, import and share all sorts of bibliographic records with other regions to create a unified form of biography databases.
- Presentation and participation of the specialized field of library and information technology in scientific conferences.

- Developing the main structure for Library Integrated Systems (LIS) to be in order to be compatible with RDA rules.

6. Acknowledgements

The Authors wish to thank all staff in the Deanship of Scientific Research (Northern Border University), Saudi Arabia for providing the necessary financing supporting to finish this study.

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