Family Historical Artefacts Register
(Database Dictionary)

Entity Name:	**Artefact**
Entity Description:	This is an artefact listed in the register

Attribute Name:	**Artefact ID**
Attribute Type(size):	autonumber(MAX), a unique system-generated number that indexes or holds the reference for an artefact.
Attribute Description:	An auto-generated string used as a unique, internal ID for the Artefact in the database. Several possible formats (which might be put together in any combination for the format used in the database, and some of which imply additional attributes for the Entity which might not be strictly necessary otherwise) are listed as Attribute Examples.
Attribute Example:	"Yonah's computer - Manah Smith's piano" (Format: Computer/server/database ID -> name of Artefact as a database Entity.) "1539091360" (Format: Unix code timestamp for when the Artefact was first created as a database Entity.) "A491A314D5938CB98ABE15AEAF76C63BE9525A8C5FE20A987358A12C35534C2" (Format: Hash of the Unix code timestamp for when the Artefact was first created as a database Entity; the hash could be determined based on, e.g., computer hardware or memory state to minimise risk of colliding Person/Family Member IDs when importing between databases.)
Mandatory:	Yes

Attribute Name:	**Namespace (Name/Label/Tag)**
Attribute Type(size):	varchar(200), variable character field is a set of character data of indeterminate or otherwise specifed length
Attribute Description:	A text string (which may represent the artefact's name, category, or any other such identifying information) for users to identify the artefact by (e.g. for using as a search term.)
Attribute Example:	"Manah and Reginald's Wedding Photobook", "Photos", "Wedding Mementos"
Mandatory:	NO

Attribute Name:	**Media**
Attribute Type(size):	BLOB(MAX), Binary Large Objects: used to store objects that are large in size, like images and videos
Attribute Description:	Any media file that may be attached to (i.e. linked to in the register's filesystem by) the artefact.
Attribute Example:	"/media/artefacts/artefact1/picture.png", "/media/artefacts/artefact1/recording.mp3", "/media/artefacts/artefact1/video.mpeg4"

Mandatory:	NO

Attribute Name:	**Date(s)**
Attribute Type(format):	date (dd/mm/yyyy)
Attribute Description:	The date(s) with which the artefact is associated with. This may comprise either a discrete number, a continuous number, or a series of discrete or continuous numbers - in the last case, what might be appropriate would be to have multiple instances of this attribute for each discrete or continuous number.
Attribute Example:	"03/04/1946", "02/02/1952 - 02/03/1956"
Mandatory:	NO

Attribute Name:	**Description/Info/Comment**
Attribute Type(size):	varchar(200), variable character field is a set of character data of indeterminate or otherwise specified length
Attribute Description:	A text body used to provide information about the artefact, e.g. a physical description of it, an explanation of its importance to the family, any anecdotes that a family member might have in mind about it.
Attribute Example:	"It is a white grand piano that we had custom built in 1933. It has our family crest on its front left leg.", "It has been passed down through our family since Maxwell Smith had it commissioned in 1913.", "Reginald Smith wore one of the badges to his wedding to honour his grandfather's memory.", "Maxwell insisted on keeping it in a specific drawer in the drawing room."
Mandatory:	NO

Attribute Name:	**Location**
Attribute Type(size):	varchar(50), variable character field is a set of character data of indeterminate or otherwise specified length
Attribute Description:	The artefact's location, either currently (from a date onward, or with no set timeframe) or in a particular period of time. This location ideally would be given in the form of co-ordinates, as giving it in the form of an address or description (i.e. text string/text body) would be an arguably unnecessary overlap between this attribute and the 'Description/Info/Comment' attribute, but the examples are provided in the forms of addresses and location descriptions.
Attribute Example:	"From 1947-1988: 111 Example Road, Melbourne", "From 1999 Onward: Melbourne Museum of the Edwardian Era; 1 Central Street, Melbourne"
Mandatory:	NO

Attribute Name:	**Associated Person**
Attribute Type(size):	varchar(50), variable character field is a set of character data of indeterminate or otherwise specified length
Attribute Description:	A Person (Entity) tagged as having a relation to the artefact - this type attribute being used to identify relations for e.g. searching a timeline based on who owned which artefact or which artefact was involved in which event.
Attribute Example:	"Manah Smith", "Reginald Smith", "Emil Baker"
Mandatory:	NO

Attribute Name:	**Associated Event**
Attribute Type(size):	varchar(50), variable character field is a set of character data of indeterminate or otherwise specified length
Attribute Description:	An Event (Entity) tagged as having a relation to the artefact..
Attribute Example:	"Manah and Reginald's Wedding", "Yonah Baker's Birth", "Maxwell Smith's Grand Concert Performance in 1922"
Mandatory:	NO

Entity Name:	**Event**
Entity Description:	This is an event listed in the register for having some relation to the artefacts listed in the register.

Attribute Name:	**Event ID**
Attribute Type(size):	autonumber(MAX), a unique system-generated number that indexes or holds the reference for an event.
Attribute Description:	A string used as a unique, internal ID for the Event in the database, as with the "Artefact ID" Attribute of the "Artefact" Entity above.
Attribute Example:	As with "Artefact ID."
Mandatory:	YES

Attribute Name:	**Namespace (Name/Label/Tag)**
Attribute Type(size):	varchar(200), variable character field is a set of character data of indeterminate or otherwise specified length
Attribute Description:	A text string (which may represent the event's name, category, or any other such information) for users to identify the event by (e.g. for using as a search term.)
Attribute Example:	"Manah and Reginald's Wedding", "Weddings", "Family Celebrations"
Mandatory:	NO

Attribute Name:	**Media**
Attribute Type(size):	BLOB(MAX), Binary Large Objects: used to store objects that are large in size, like images and videos
Attribute Description:	Any media file that may be attached to (i.e. linked to in the register's filesystem by) the event.
Attribute Example:	"/media/events/event1/picture.png", "/media/events/event1/recording.mp3", "/media/event/event1/video.webm"
Mandatory:	NO

Attribute Name:	**Date(s)**
Attribute Type(format):	date (dd/mm/yyyy)
Attribute Description:	The date(s) on which the event occurred or which the event is otherwise associated with. This may comprise either a discrete number, a continuous number, or a series of dicrete or continuous numbers - in the last case, what might be appropriate would be to have multiple instances of this attribute for each discrete or continuous number.
Attribute Example:	"03/04/1946", "02/02/1952 - 02/03/1956"
Mandatory:	NO

Attribute Name:	**Desciption/Info/Comment**
Attribute Type:	Varchar(200), variable character field is a set of character data of indeterminate or otherwise specified length
Attribute Description:	A text body used to provide information about the event, e.g. a description of what happened in it, an explanation of its

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	importance to the family, any anecdotes that a family member might have in mind about it.
Attribute Example:	"Emil was born in Collingwood Family Hospital...", "Maxwell Smith received his Medal of Courage in the battle of Novosibirsk..."
Mandatory:	No

Attribute Name:	**Location**
Attribute Type(size):	varchar(50), variable character field is a set of character data of indeterminate or otherwise specified length
Attribute Description:	The event's location, either currently (from a date onward, or with no set timeframe) or in a particular period of time. This location ideally would be given in the form of co-ordinates, as giving it in the form of an address or description (i.e. text string/text body) would be an arguably unnecessary overlap between this attribute and the 'Description/Info/Comment' attribute, but the examples are provided in the forms of addresses and location descriptions.
Attribute Example:	"From 1947-1988: 111 Example Road, Melbourne", "From 1999 Onward: Melbourne Museum of the Edwardian Era; 1 Central Street, Melbourne"
Mandatory:	NO

Attribute Name:	**Associated Person**
Attribute Type:	varchar(50), variable character field is a set of character data of indeterminate or otherwise specified length
Attribute Description:	A Person (Entity) tagged as having a relation to the event.
Attribute Example:	"Manah Smith", "Reginald Smith", "Emil Baker"
Mandatory:	NO

Attribute Name:	**Associated Artefact**
Attribute Type:	varchar(50), variable character field is a set of character data of indeterminate or otherwise specified length
Attribute Description:	An Artefact (Entity) tagged as having a relation to the event.
Attribute Example:	"Yonah's Computer", "Manah's Piano"
Mandatory:	NO

Entity Name:	**Person**
Entity Description:	This is a person listed in the register for having some relation to the artefacts and/or events listed in the register.

Attribute Name:	**Person/Family Member ID**
Attribute Type(size):	Autonumber(MAX). a unique system-generated number that indexes or holds the reference for a person.
Attribute Description:	A string used as a unique, internal ID for the Person/Family Member in the database, as with the "Event ID" and "Artefact ID" Attributes above.
Attribute Example:	As with "Artefact ID" and "Event ID."
Mandatory:	Yes

Attribute Name:	**Namespace**
Attribute Type(size):	varchar(200), variable character field is a set of character data of indeterminate or otherwise specified length
Attribute Description:	A text string used to specify one of the names of the person as well as to specify which type of name it is for the person.
Attribute Example:	"First Name: Yonah", "Last Name: Baker", "Maiden Name: Smith"
Mandatory:	No

Attribute Name:	**Media**
Attribute Type(size):	BLOB(MAX), Binary Large Objects: used to store objects that are large in size, like images and videos
Attribute Description:	Any media file that may be attached to (i.e. linked to in the register's filesystem by) the person.
Attribute Example:	"/media/people/person1/picture.png", "/media/people/person1/recording.mp3", "/media/people/person1/video.webm"
Mandatory:	NO

Attribute Name:	**Important Date(s) (may overlap with Events' Date attribute; may be better handled as an Event associated with a Person rather than as an attribute of a Person)**
Attribute Type(size):	date (dd/mm/yyyy)
Attribute Description:	A text string used to specify one of the names of the person as well as to specify which type of name it is for the person.
Attribute Example:	"First Name: Yonah", "Last Name: Baker", "Maiden Name: Smith"
Mandatory:	NO

Attribute Name:	**Info/Comment**
Attribute Type(size):	Varchar(200), variable character field is a set of character data of indeterminate or otherwise specified length
Attribute Description:	A text body used to provide information or misc comments about the person.
Attribute Example:	"Maxwell was a pilot for the Australian Airforce who fought in the third Sino-Russian war.", "Maxwell left behind a number of artefacts in the hands of different friends and family that we've yet to list in our register."
Mandatory:	NO

Attribute Name:	**Associated Artefact**
Attribute Type:	varchar(50), variable character field is a set of character data of indeterminate or otherwise specified length
Attribute Description:	An Artefact (Entity) tagged as having a relation to the event.
Attribute Example:	"Yonah's Computer", "Manah's Piano"
Mandatory:	NO

Attribute Name:	**Associated Event**
Attribute Type(size):	varchar(50), variable character field is a set of character data of indeterminate or otherwise specified length
Attribute Description:	An Event (Entity) tagged as having a relation to the artefact..
Attribute Example:	"Manah and Reginald's Wedding", "Yonah Baker's Birth", "Maxwell Smith's Grand Concert Performance in 1922"
Mandatory:	NO

Entity Name:	**Artefact Story**
Entity Description:	This is a story (e.g. an anecdote from a family member, or a historical tidbit) which has been recorded in the register about one of the register's listed Artefacts.

Attribute Name:	**Artefact Story ID**
Attribute Type(size):	autonumber(MAX), a unique system-generated number that indexes or holds the reference for an artefact story.
Attribute Description:	An auto-generated string used as a unique, internal ID for the Artefact Story in the database, as with the "Artefact ID" Attribute of the "Artefact" Entity above.
Attribute Example:	As with "Artefact ID".
Mandatory:	Yes

Attribute Name:	**Date(s)**
Attribute Type(format):	date (dd/mm/yyyy)
Attribute Description:	The date(s) with which the artefact story is associated. This may comprise either a discrete number, a continuous number, or a series of discrete or continuous numbers - in the last case, what might be appropriate would be to have multiple instances of this attribute for each discrete or continuous number.
Attribute Example:	"03/04/1946", "02/02/1952 - 02/03/1956"
Mandatory:	NO

Attribute Name:	**Description/Info/Comment**
Attribute Type(size):	varchar(200), variable character field is a set of character data of indeterminate or otherwise specified length
Attribute Description:	A text body used to provide information about the artefact story, e.g. a physical description of it, an explanation of its importance to the family, any anecdotes that a family member might have in mind about it.
Attribute Example:	"It is a white grand piano that we had custom built in 1933. It has our family crest on its front left leg.", "It has been passed down through our family since Maxwell Smith had it commissioned in 1913.", "Reginald Smith wore one of the badges to his wedding to honour his grandfather's memory.", "Maxwell insisted on keeping it in a specific drawer in the drawing room."
Mandatory:	NO

Attribute Name:	**Location**
Attribute Type(size):	varchar(50), variable character field is a set of character data of indeterminate or otherwise specified length
Attribute Description:	The location(s) in which the Artefact Story took place – as with the "Location" description for Artefacts.
Attribute Example:	"43rd Little Place, St. Petersburg", "Our old town's concert hall"

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Mandatory:	NO

Attribute Name:	**Associated Person**
Attribute Type(size):	varchar(50), variable character field is a set of character data of indeterminate or otherwise specified length
Attribute Description:	A Person (Entity) tagged as having a relation to the artefact story - this type attribute being used to identify relations for e.g. searching a timeline based on who owned which artefact or which artefact was involved in which event.
Attribute Example:	"Manah Smith", "Reginald Smith", "Emil Baker"
Mandatory:	NO

Attribute Name:	**Associated Event**
Attribute Type(size):	varchar(50), variable character field is a set of character data of indeterminate or otherwise specified length
Attribute Description:	An Event (Entity) tagged as having a relation to the artefact story.
Attribute Example:	"Manah and Reginald's Wedding", "Yonah Baker's Birth", "Maxwell Smith's Grand Concert Performance in 1922"
Mandatory:	NO

Notes:

1. There may be a certain amount of overlap between the concept of the "Important Date(s)" attribute for Persons and the concept of Event Entities as a whole - important dates like dates of birth and death could very well be handled as Events that are then tied to a person via the "Associated Person" Attribute being applied to them.

2. I treat these Attribute listings generally being classes of Attributes of which an Entity might have any number of instances, rather than as their being explicit, solitary Attributes of which any given entity is expected to have one and exactly one. Treating these Attributes as being explicit, solitary Attributes rather than as classes of Attributes would mean, e.g., dividing the "Namespace" attribute for Persons into several different Attributes like "First Name", "Last Name", "Maiden Name", and so on so forth in order to replicate the concept intended for them in treating them as classes.

3. There's a certain amount of redundancy between the Attributes I list for each type of Entity. In actually implementing the database concepts I outline here, would it be the case that a distinction can be made between Attributes that are specific to a single type of Entity and Attributes that can be applied to any type of Entity, and, if so, should some of the Attributes listed here be treated as simply being able to be applied to any type of Entity rather than having the variations for each type of Entity that they have in this data dictionary?

4. The following may be considered for inclusion into the database as Attributes, although I haven't included them in the data dictionary above (due to their being common to a number of different database concepts beyond this specific database concept of a family artefact register):

5. The user who logged this Entity (Artefact/Event/Person) in the database

6. A timestamp of when this Entity was created in the database

7. An ID of the database for which this Entity was first created (i.e. for referencing having imported Entities between different databases)

8. Sub-Attributes that some types of Attributes might have based around the metadata of those Attributes - e.g. a Sub-Attribute of an instance of "Description/Info/Comment" in an Entity being the person who added that "Description/Info/Comment" Attribute to the Entity, or a Sub-Attribute of an instance of "Important Date(s)" being the type of date(s) represented by that instance in question