

E-Death Notification Data Model

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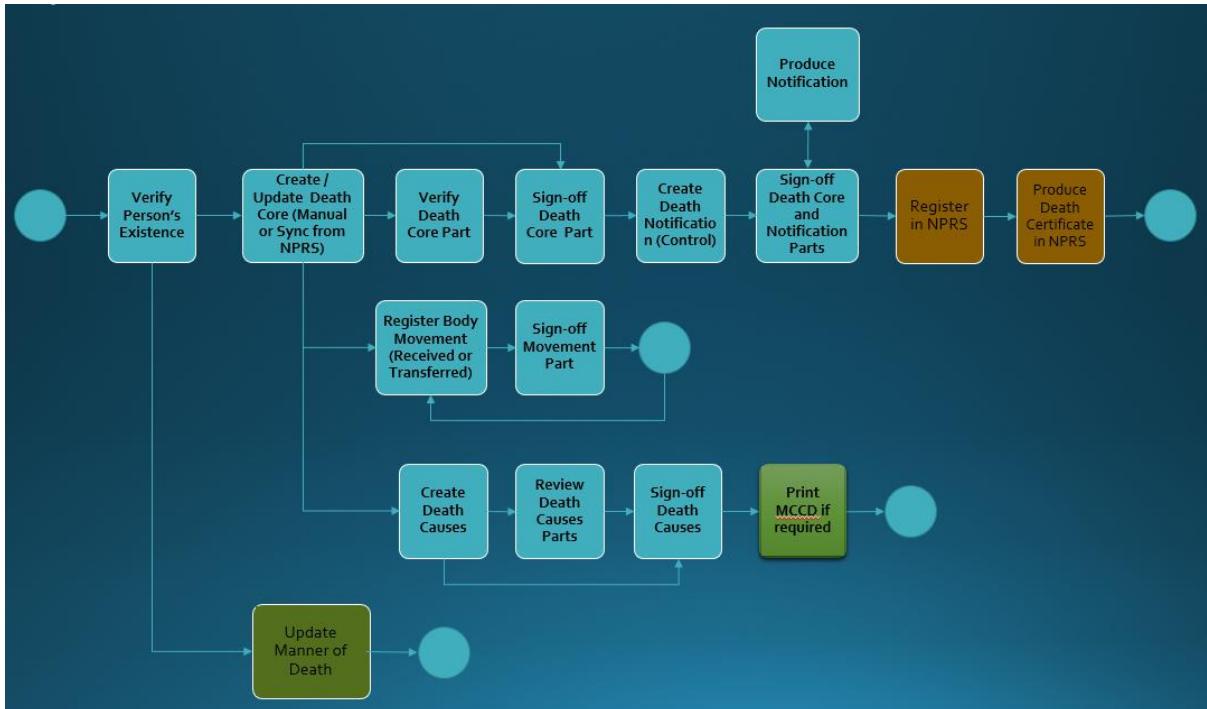
Office of the Prime Minister

1. Overview

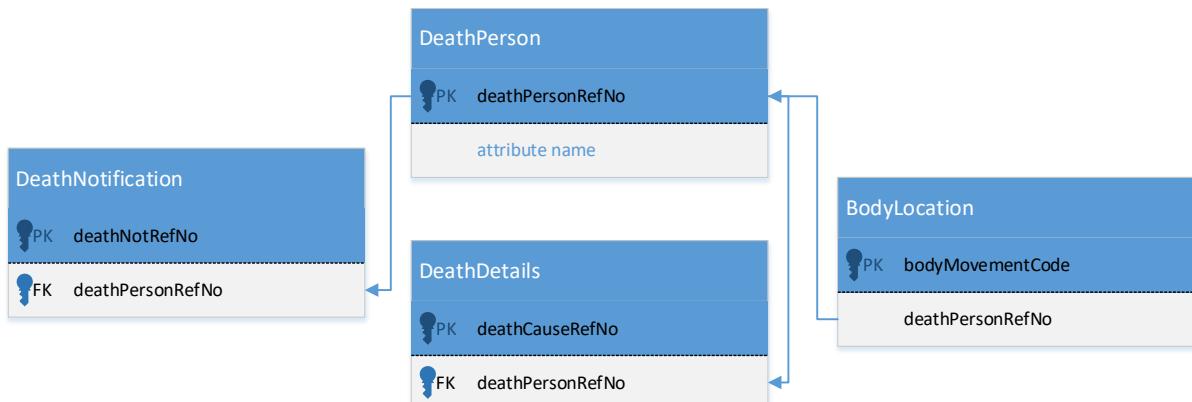
The data model presented supports the E-Death Notification System, capturing key information related to the deceased, including personal details, cause of death, and the movement of the body throughout the process.

2. Workflow

The general workflow for the death notifications provides an overview of the activities performed as part of the death notification process.



3. Relational Model



4. Tables

Table Name: DeathPerson

Description: Biographical and death-related information of the deceased

Key PK / FK	Field Name	Data Type	Required	Description
PK	deathPersonRefNo	Char(15)	Yes	A unique number is generated for each person registered.
	unidenfiedPerson	Bit	Yes	Indicates if this a unidentified person (e.g., 0, 1)
	nprsProfileCode	Integer	No	Identity was copied from NPRS with the profile code
	identityVerfied	DateTime	No	Date and time of last identity verification against the NPRS
Biographical				
	surname	NVarchar(50)	Yes	Surname of the deceased
	firstnames	NVarchar(60)	Yes	First names of the deceased
	sex	Char(1)	Yes	
	birthdate	Date	Yes	
FK	birthCountry	Integer	Yes	Country born
	birthPlace	NVarchar(50)	Yes	Place born
FK	nationality	Integer		Citizenship (nationality)
FK	dataSource	Integer	Yes	Identity document used as an identification source (e.g., Birth certificate, ID Card)
	dataSourceNo	Varchar(25)	Yes	Unique number of the identification document, else Not Applicable
Basic Death Information				
	deathRegDate	Date	Yes	The date that the death was recorded
FK	regFacility	Integer	Yes	The facility that registered the death
	deathDate	Date	Yes	Date of death
	deathTime	Time(7)	No	Time of death
FK	deathPlaceOccured	Integer	Yes	The facility type where death occurred (e.g., Hospital, Home, Farm)
	deathPlace	Varchar(100)	Yes	The place deceased
FK	constiDeceased	Integer	Yes	The constituency deceased
FK	facilityOccured	Integer	Yes	Facility deceased
FK	deathCertifierCapacity	Integer	Yes	Death certifier's capacity
	deathCertifierFullNames	NVarchar(70)	Yes	Name and surname of the death certifier
Fetal or Infant Death				
	multiplePregnancy	Char(1)	No	Multiple pregnancies (e.g., Y, N, Null)
	stillborn	Char(1)	No	Stillborn indicator (e.g., Y, N, Null)
	survived	Varchar(10)	No	Period type child survived (e.g., Hours, Days, Weeks, Not Applicable)
	survivedPeriod	Integer	No	Number of the 'survived' (Hours, Days, etc.)
	birthWeight	Integer	No	Birth weight in grams
	weeksCompletedPregnancy	Integer	No	Number of completed weeks of pregnancy
	ageMother	Integer	No	Age of mother in years

	conditionMother	NVarchar(200)	No	Condition of the mother at the time of the child's death
	conditionchild	NVarchar(200)	No	Condition of the child
For Women				
	pregnancyTime	Varchar(50)	No	When was she pregnant (e.g., Time of death, within 42 days before death, between 43 days up to 1 year before birth)
	pregnancyContribute	Char(1)	No	Did the pregnancy contribute to the death (e.g., Y, N, Null)
	signedOffBy	Varchar(40)	No	An electronic stamp indicating that the core details were verified and signed off by an authorised person
	signedOffOn	DateTime	No	Date when signed-off

Table Name: DeathDetails

Description: Cause of death and certification. Aligns with requirements for MCCD.

Key PK / FK	Field Name	Data Type	Required	Description
PK	deathCauseRefNo	Integer	Yes	A unique number that is generated for each death cause.
FK	deathPersonRefNo	Char(15)	Yes	Deceased person's reference number.
	deathCauseDescr1	NVarchar(255)	Yes	Immediate cause of death description (copied from ICD11)
FK	deathCauseICD1	Varchar(10)	Yes	ICD11 coding of the immediate cause of death
	deathCauseTime1	Integer	Yes	Immediate cause period (e.g., Day, week, month, year)
	deathCauseDescr2	Integer	Yes	Antecedent/underlying cause of death description (copied from ICD11)
FK	deathCauseICD2	Char(15)	Yes	ICD11 coded Antecedent/underlying cause of death
	deathCauseTime2	NVarchar(255)	Yes	Antecedent/underlying cause period (e.g., Day, week, month, year)
	deathCauseDescr3	Integer	Yes	Antecedent/underlying cause of death description
FK	deathCauseICD3	Char(15)	No	ICD11 coded Antecedent/underlying cause of death (copied from ICD11). Allow null relationship.
	deathCauseTime3	NVarchar(255)	No	Antecedent/underlying cause period (e.g., Day, week, month, year)
	deathCauseDescr4	Integer	No	Antecedent/underlying cause of death description (copied from ICD11)
FK	deathCauseICD4	Char(15)	No	ICD11 coded Antecedent/underlying cause of death. Allow null relationship.
	deathCauseTime4	NVarchar(255)	No	Antecedent/underlying cause period (e.g., Day, week, month, year)
	otherCause	NVarchar(255)	No	Other causes not found in ICD11 coding.
	certifierSurname	NVarchar(50)	Yes	Surname of the medical cause of death certifier (e.g., Doctor's surname)
	certifierName	NVarchar(60)	Yes	Name of the medical cause of death certifier

FK	deathManner	Integer	Yes	Foreign key. Manner of death.
	surgeryPerformed	Char(1)	Yes	Was surgery performed within the last 4 weeks? (e.g., Yes, No, Unknown)
	surgeryDate	Date	No	Date of the surgery
	surgeryReason	NVarchar(200)	No	Reason for surgery
	autopsyRequested	Char(1)	Yes	Was an autopsy requested? (e.g., Yes, No, Unknown)
	autopsyFindingsUsed	Char(1)	Yes	Were the autopsy findings used for the certification? (e.g., Yes, No, Unknown)
	signedOffBy	Varchar(40)	No	An electronic stamp indicating that the causes were verified and signed off by an authorised person
	signedOffOn	DateTime	No	Date when signed-off

Table Name: BodyLocation

Description: Tracks the movement of the body

Key PK / FK	Field Name	Data Type	Required	Description
PK	bodyMovementCode	Integer	Yes	A unique number that is generated for each movement.
FK	deathPersonRefNo	Char(15)	Yes	Deceased person's reference number.
	bodyMovementType	Varchar(10)	Yes	Type of movement (e.g., Transfer, Receive)
	bodyMovementDate	Date	Yes	Date the body was moved
FK	facilitySource	Integer	Yes	Body moved from facility
FK	facilityDest	Integer	Yes	Body moved to facility
	signedOffBy	Varchar(40)	No	An electronic stamp indicating that the movement was verified and signed off by an authorised person
	signedOffOn	DateTime	No	Date when signed-off

Table Name: DeathNotification

Description: A formal notification flag (wrapper) that indicates to MHAISS the availability of a death notification

Key PK / FK	Field Name	Data Type	Required	Description
PK	deathNotRefNo	Char(13)	Yes	A unique number that is generated for each notification indicator
FK	deathPersonRefNo	Char(15)	Yes	Deceased person's reference number.
	nprsProfileCode	Integer	No	NPRS profile code that the notification is attached to
	notificationDate	Date	Yes	Date notified
FK	notifyingFacility	Integer	Yes	The notifying facility
FK	informatCapacity	Integer	Yes	Capacity of the notifier
	notificationStatus	Varchar(10)	Yes	Notification acceptance status by MHAISS (e.g., PENDING, ACCEPTED)
	notificationStatusDate	DateTime	Yes	Status date

	signedOffBy	Varchar(40)	No	Electronic stamp indicating that the notification was verified and is signed-off for consumption by MHAISS by an authorised person
	signedOffOn	DateTime	No	Date when signed-off

5. Master Code Tables

A list of master code entities is included in the database design to standardise common data elements. These master code entities serve as a reference for consistent coding and are mapped into other data tables where applicable.

Tables	Description
BirthPlaceOccurrence	Places where an event could take place
DeathManner	Categories of death
Hospital	Health facility list
ICD11Min	ICD11 codes from WHO
NatDocType	Identification document types
Nationality	Country codes (ISO)
Region	Region list
Constituency	Constituency list