



FLOSS Solutions for Open Land Administration (SOLA)

Data Dictionary

FAO NRC Land Tenure Team
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Introduction

The SOLA database has been created as part of a project undertaken by the UN Food and Agriculture Organization (with funding from the Government of Finland) to develop open source software that supports cadastre and registration functions in land administration agencies. It has a particular goal of making computerized systems supporting open land administration more affordable and sustainable in developing countries.

The SOLA database is implemented in a Postgre SQL database and is a relational database implementation of an extended version of the Land Administration Data Model (LADM) which is currently a Draft International Standard (DIS 19152). It has been necessary to extend DIS 19152 because of the operational needs of land administration agencies to incorporate case management and other features into any system that supports the processing of client service requests (for land information, registration and cadastre change requests and others) and the maintaining and updating of the record of rights and restrictions, ownership and property boundaries. The FLOSS SOLA software supports this range of land administration business processes and the SOLA database is an integral part of the FLOSS SOLA database.

The SOLA Data Dictionary is organized according to the database schemas defined in the SOLA database. Within each section for a schema there is a definition of all tables including their description, column, constraints and relationship details.

The SOLA database should be considered a work in progress over the period 2011 - 2013 while the initial FLOSS SOLA software is under development and pilot implementation are being undertaken. For this reason those referring to this document should check www.flossola.org to ensure they have the latest version.

source

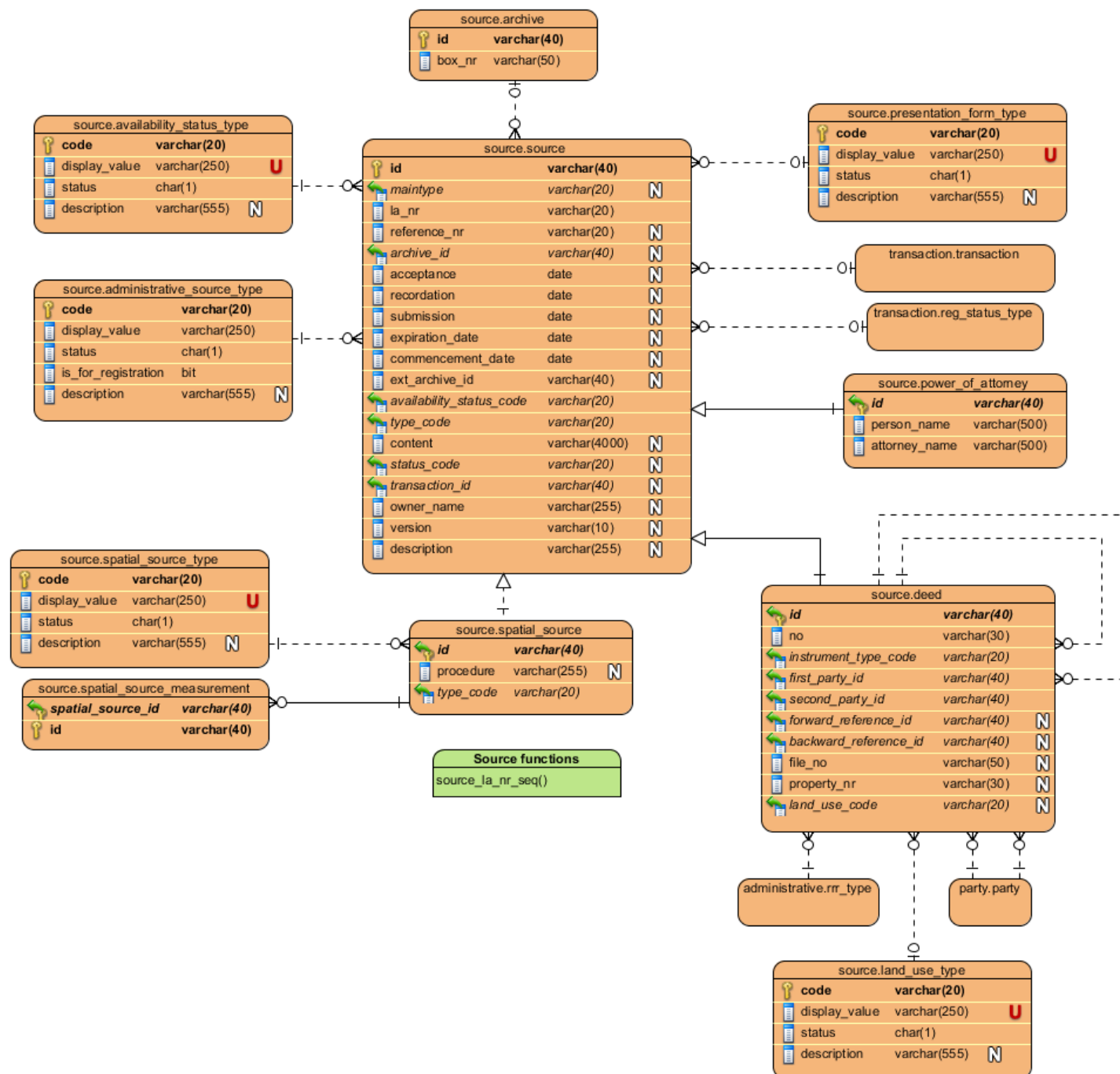


Table: source

Documents or recognised facts providing the basis for the recording of a registration, cadastre change, right, responsibility or administrative action performed by the land office

LADM Reference Object

LA_Source

LADM Definition

Not defined

Columns

Name	Type	Optional	Default	Description
id	varchar(40)	False		LADM Definition - Source identifier
maintype	varchar(20)	True		LADM Definition - The type of the representation of the content of the source.
la_nr	varchar(20)	False		SOLA Extension - This number is given by the land administration office for their own administration.
reference_nr	varchar(20)	True		SOLA Extension -This is the number as given by the external agency.
archive_id	varchar(40)	True		SOLA Extension - The archive identifier of the source
acceptance	date	True		LADM Definition -The date of force of law of the source by an authority. Date of Registration - Day on which the deed was registered by the commission
recordation	date	True		LADM Definition - The date of formalization by the source agency. Ghana extension: This date in Ghana is refeerd as Date of Instrument
submission	date	True	now()	LADM Definition - The date when the document was submitted to the system
expiration_date	date	True		Date of expiration
commencement_date	date	True		Ghana extension: Date of commencement.
ext_archive_id	varchar(40)	True		LADM Definition -The identifier of a source in an external registration. This attribute is used to link the source with the document management system.
availability_status_code	varchar(20)	False	'available'	LADM Definition - the code describing how available this source (document) is
type_code	varchar(20)	False		LADM Definition - Type of the document (administrative_source)
content	varchar(4000)	True		LADM Definition -Content of the source (administrative_source)
status_code	varchar(20)	True		The status of the document. For some documents is important to know if the document is valid or not.
transaction_id	varchar(40)	True		The transaction that brought the document in the system. This is not valid for all documents but for some of them. There are request types that bring only documents in the system without involving a ba unit. In this case is important to know which transaction brought this document in order to handle it within transaction (approve, reject) life cycle.
owner_name	varchar(255)	True		Document owner name.
version	varchar(10)	True		Document version.
description	varchar(255)	True		Document description.

Constraints

Name	Type	Explanation
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source_pkey	PRIMARY KEY	Combination of (id) is the primary key
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Relationships (from)

Name	Information	Description
source_maintype_fk35	From columns: maintype To Entity: presentation_form_type From cardinality: 0..* To Cardinality: 0..1	LADM relationship - no refinement
source_archive_id_fk36	From columns: archive_id To Entity: archive From cardinality: 0..* To Cardinality: 0..1	FLOSS SOLA relationship - no refinement
source_availability_status_code_fk44	From columns: availability_status_code To Entity: availability_status_type From cardinality: 0..* To Cardinality: 1	LADM relationship - no refinement
source_type_code_fk45	From columns: type_code To Entity: administrative_source_type From cardinality: 0..* To Cardinality: 1	FLOSS SOLA relationship - no refinement
source_transaction_id_fk85	From columns: transaction_id To Entity: transaction From cardinality: 0..* To Cardinality: 0..1	
source_status_code_fk86	From columns: status_code To Entity: reg_status_type From cardinality: 0..* To Cardinality: 0..1	

Relationships (to)

Name	Information	Description
spatial_source_id_fk11	From columns: id From Entity: spatial_source From cardinality: 1 To Cardinality: 1	LADM relationship - no refinement
application_uses_source_source_id_fk38	From columns: source_id From Entity: application_uses_source From cardinality: 0..* To Cardinality: 1	FLOSS SOLA relationship - no refinement
source_describes_ba_unit_source_id_fk65	From columns: source_id From Entity: source_describes_ba_unit From cardinality: 0..* To Cardinality: 1	
source_describes_rrr_source_id_fk75	From columns: source_id From Entity: source_describes_rrr From cardinality: 0..* To Cardinality: 1	

transaction_source_source_id_fk94	From columns: source_id From Entity: transaction_source From cardinality: 0..* To Cardinality: 1	
deed_id_fk133	From columns: id From Entity: deed From cardinality: 1 To Cardinality: 1	
power_of_attorney_id_fk145	From columns: id From Entity: power_of_attorney From cardinality: 1 To Cardinality: 1	

Triggers

Name	Event
change_of_status	before update

Table: availability_status_type

Reference Table / Code list of source (document) availability status type

LADM Reference Object

LA_AvailabilityStatusType

LADM Definition

Not Defined

Columns

Name	Type	Optional	Default	Description
code	varchar(20)	False		LADM Definition -The code for the availability status type
display_value	varchar(250)	False		LADM Definition - The display value assigned to the availability status type
status	char(1)	False	'c'	SOLA Extension - The status of the availability status type
description	varchar(555)	True		LADM Definition - description of the availability status type

Constraints

Name	Type	Explanation
availability_status_type_display_value_unique	UNIQUE	Combination of (display_value) is unique
availability_status_type_pkey	PRIMARY KEY	Combination of (code) is the primary key

Relationships (to)

Name	Information	Description
source_availability_status_code_fk44	From columns: availability_status_code From Entity: source From cardinality: 0..* To Cardinality: 1	LADM relationship - no refinement

Data

Nr	code	display_value	status	description
1	archiveConverted	Converted::::Convertito	c	
2	archiveDestroyed	Destroyed::::Distrutto	x	
3	incomplete	Incomplete::::Incompleto	c	
4	archiveUnknown	Unknown::::Sconosciuto	c	
5	available	Available	c	Extension to LADM

Table: administrative_source_type

Reference Table / Code list of administrative source types

LADM Reference Object

LA_AdministrativeSourceType

LADM Definition

Not Defined

Columns

Name	Type	Optional	Default	Description
code	varchar(20)	False		LADM Definition -The code for the administrative source type
display_value	varchar(250)	False		LADM Definition - displayed value of the administrative source type
status	char(1)	False		SOLA Extension - Status of the administrative source type
is_for_registration	bool	False	false	
description	varchar(555)	True		LADM Definition - Description of the administrative source type

Constraints

Name	Type	Explanation
administrative_source_type_display_value_UNIQUE	UNIQUE	Combination of (display_value) is unique
administrative_source_type_pkey	PRIMARY KEY	Combination of (code) is the primary key

Relationships (to)

Name	Information	Description
source_type_code_fk45	From columns: type_code From Entity: source From cardinality: 0..* To Cardinality: 1	FLOSS SOLA relationship - no refinement
request_type_requires_source_type_source_type_code_fk46	From columns: request_type_requires_source_type_code From Entity: request_type_requires_source_type From cardinality: 0..* To Cardinality: 1	FLOSS SOLA relationship - no refinement

Data

Nr	code	display_value	status	is_for_registration	description
1	agriConsent	Agricultural Consent:::Permesso Agricolo	x	false	
2	agriLease	Agricultural Lease:::Contratto Affitto Agricolo	x	false	

3	agriNotaryStatement	Agricultural Notary Statement::::Dichiarazione Agricola Notaio	x	false	
4	deed	Deed	c	false	
5	lease	Lease::::ITALIANO	c	false	
6	mortgage	Mortgage::::Ipoteca	c	false	
7	title	Title::::Titolo	c	false	
8	proclamation	Proclamation::::Bando	c	false	Extension to LADM
9	courtOrder	Court Order::::Ordine Tribunale	c	false	Extension to LADM
10	agreement	Agreement::::Accordo	c	false	Extension to LADM
11	contractForSale	Contract for Sale::::ITALIANO	c	false	Extension to LADM
12	will	Will::::ITALIANO	c	false	Extension to LADM
13	powerOfAttorney	Power of Attorney::::ITALIANO	c	true	Extension to LADM
14	standardDocument	Standard Document::::ITALIANO	c	false	Extension to LADM
15	cadastralMap	Cadastral Map::::Mappa Catastale	c	false	Extension to LADM
16	cadastralSurvey	Cadastral Survey::::Rilevamento Catastale	c	false	Extension to LADM
17	waiver	Waiver to Caveat or other requirement	c	false	Extension to LADM
18	idVerification	Form of Identification including Personal ID	c	false	Extension to LADM

Table: spatial_source

Refer to LADM Definition

LADM Reference Object

LA_Source

LADM Definition

A spatial source may be the final (sometimes formal) documents, or all documents related to a survey. Sometimes several documents are the result of a single survey. A spatial source may be official or not (ie a registered survey plan or an aerial photograph).

Columns

Name	Type	Optional	Default	Description
id	varchar(40)	False		LADM Definition - Spatial source identifier
procedure	varchar(255)	True		LADM Definition - Procedures, steps or method adopted
type_code	varchar(20)	False		LADM Definition - Code type assigned to the source

Constraints

Name	Type	Explanation
spatial_source_pkey	PRIMARY KEY	Combination of (id) is the primary key

Relationships (from)

Name	Information	Description
spatial_source_type_code_fk0	From columns: type_code To Entity: spatial_source_type From cardinality: 0..* To Cardinality: 1	LADM relationship - no refinement
spatial_source_id_fk11	From columns: id To Entity: source From cardinality: 1 To Cardinality: 1	LADM relationship - no refinement

Relationships (to)

Name	Information	Description
spatial_source_measurement_spatial_source	From columns: spatial_source_id From Entity: spatial_source_measurement From cardinality: 0..* To Cardinality: 1	LADM relationship - no refinement

Table: spatial_source_type

Reference Table / Code list of spatial source type

LADM Reference Object

LA_SpatialSourceType

LADM Definition

Type of Spatial Source

Columns

Name	Type	Optional	Default	Description
code	varchar(20)	False		LADM Definition - The code for the spatial source type
display_value	varchar(250)	False		LADM Definition - The display value of the spatial source type
status	char(1)	False	't'	SOLA Extension The status of the spatial source type
description	varchar(555)	True		LADM Definition - description of the spatial source type

Constraints

Name	Type	Explanation
spatial_source_type_display_value_unique	UNIQUE	Combination of (display_value) is unique
spatial_source_type_pkey	PRIMARY KEY	Combination of (code) is the primary key

Relationships (to)

Name	Information	Description
spatial_source_type_code_fk0	From columns: type_code From Entity: spatial_source From cardinality: 0..* To Cardinality: 1	LADM relationship - no refinement

Data

Nr	code	display_value	status	description
1	fieldSketch	Field Sketch:::Schizzo Campo	c	
2	gnssSurvey	GNSS (GPS) Survey:::Rilevamento GNSS (GPS)	c	
3	orthoPhoto	Orthophoto:::Foto Ortopanoramica	c	
4	relativeMeasurement	Relative Measurements:::Misura relativa	c	

5	topoMap	Topographical Map::::Mappa Topografica	c	
6	video	Video::::Video	c	
7	cadastralSurvey	Cadastral Survey::::Perizia Catastale	c	Extension to LADM

Table: spatial_source_measurement

Refer to LADM Definition

LADM Reference Object

OM_Observation

LADM Definition

The observations, and measurements, as a basis for mapping, and as a basis for historical reconstruction of the location of (parts of) the spatial unit in the field

Columns

Name	Type	Optional	Default	Description
spatial_source_id	varchar(40)	False		Spatial source identifier
id	varchar(40)	False		LADM Definition - This is an identifier of a measurement within a spatial source.

Constraints

Name	Type	Explanation
spatial_source_measurement_pkey	PRIMARY KEY	Combination of (spatial_source_id,id) is the primary key

Relationships (from)

Name	Information	Description
spatial_source_measurement_spatial_source	From columns: spatial_source_id To Entity: spatial_source From cardinality: 0..* To Cardinality: 1	LADM relationship - no refinement

Table: presentation_form_type

Reference Table / Code list for the different formats of sources (documents) that are presented to the land office

LADM Reference Object

CI_PresentationFormCode

LADM Definition

The type of document;

Columns

Name	Type	Optional	Default	Description
code	varchar(20)	False		LADM Definition - Code for the presentation form type
display_value	varchar(250)	False		LADM Definition - The display value for presentation form type
status	char(1)	False	't'	SOLA Extension - The status of the presentation form type
description	varchar(555)	True		LADM Definition - description of the presentation form type

Constraints

Name	Type	Explanation
presentation_form_type_display_value_unique	UNIQUE	Combination of (display_value) is unique
presentation_form_type_pkey	PRIMARY KEY	Combination of (code) is the primary key

Relationships (to)

Name	Information	Description
source_maintype_fk35	From columns: maintype From Entity: source From cardinality: 0..* To Cardinality: 0..1	LADM relationship - no refinement

Data

Nr	code	display_value	status	description
1	documentDigital	Digital Document:::Documento Digitale	c	
2	documentHardcopy	Hardcopy Document:::Documento in Hardcopy	c	
3	imageDigital	Digital Image:::Immagine Digitale	c	
4	imageHardcopy	Hardcopy Image:::Immagine in Hardcopy	c	

5	mapDigital	Digital Map:::Mappa Digitale	c	
6	mapHardcopy	Hardcopy Map:::Mappa in Hardcopy	c	
7	modelDigital	Digital Model:::Modello Digitale',	c	
8	modelHarcopy	Hardcopy Model:::Modello in Hardcopy	c	
9	profileDigital	Digital Profile:::Profilo Digitale	c	
10	profileHardcopy	Hardcopy Profile:::Profilo in Hardcopy	c	
11	tableDigital	Digital Table:::Tabella Digitale	c	
12	tableHardcopy	Hardcopy Table:::Tabella in Hardcopy	c	
13	videoDigital	Digital Video:::Video Digitale',	c	
14	videoHardcopy	Hardcopy Video:::Video in Hardcopy	c	

Table: archive

Details about collections of sources (documents) in both paper and digital formats

LADM Reference Object

FLOSS SOLA Extension

LADM Definition

Not Applicable

Columns

Name	Type	Optional	Default	Description
id	varchar(40)	False		SOLA Extension The archive identifier of the source
box_nr	varchar(50)	False		SOLA Extension - The name description of the source

Constraints

Name	Type	Explanation
archive_pkey	PRIMARY KEY	Combination of (id) is the primary key

Relationships (to)

Name	Information	Description
source_archive_id_fk36	From columns: archive_id From Entity: source From cardinality: 0..* To Cardinality: 0..1	FLOSS SOLA relationship - no refinement

Table: deed**Columns**

Name	Type	Optional	Default	Description
id	varchar(40)	False		
no	varchar(30)	False		
instrument_type_code	varchar(20)	False		
first_party_id	varchar(40)	False		
second_party_id	varchar(40)	False		
forward_reference_id	varchar(40)	True		
backward_reference_id	varchar(40)	True		
file_no	varchar(50)	True		
property_nr	varchar(30)	True		
land_use_code	varchar(20)	True		

Constraints

Name	Type	Explanation
deed_pkey	PRIMARY KEY	Combination of (id) is the primary key

Relationships (from)

Name	Information	Description
deed_id_fk133	From columns: id To Entity: source From cardinality: 1 To Cardinality: 1	
deed_instrument_type_code_fk134	From columns: instrument_type_code To Entity: rrr_type From cardinality: 0..* To Cardinality: 1	
deed_first_party_id_fk135	From columns: first_party_id To Entity: party From cardinality: 0..* To Cardinality: 1	
deed_second_party_id_fk136	From columns: second_party_id To Entity: party From cardinality: 0..* To Cardinality: 1	
deed_forward_reference_id_fk137	From columns: forward_reference_id To Entity: deed From cardinality: 0..* To Cardinality: 1	

deed_backward_reference_id_fk138	From columns: backward_reference_id To Entity: deed From cardinality: 0..* To Cardinality: 1	
deed_land_use_code_fk143	From columns: land_use_code To Entity: land_use_type From cardinality: 0..* To Cardinality: 0..1	

Table: land_use_type

Ghana extension: It contains the list of possible land use types.

Columns

Name	Type	Optional	Default	Description
code	varchar(20)	False		
display_value	varchar(250)	False		
status	char(1)	False	't'	
description	varchar(555)	True		

Constraints

Name	Type	Explanation
land_use_type_display_value_unique	UNIQUE	Combination of (display_value) is unique
land_use_type_pkey	PRIMARY KEY	Combination of (code) is the primary key

Relationships (to)

Name	Information	Description
deed_land_use_code_fk143	From columns: land_use_code From Entity: deed From cardinality: 0..* To Cardinality: 0..1	

Data

Nr	code	display_value	status	description
1	residential	Residential	c	
2	commercial	Commercial	c	
3	industrial	Industrial	c	
4	educational	Educational	c	
5	agricultural	Agricultural	c	
6	recreational	Recreational	c	
7	civic-cultural	Civic Cultural	c	

Table: power_of_attorney

Columns

Name	Type	Optional	Default	Description
id	varchar(40)	False		
person_name	varchar(500)	False		The name of person, giving power of attorney
attorney_name	varchar(500)	False		The name of attorney.

Constraints

Name	Type	Explanation
power_of_attorney_pkey	PRIMARY KEY	Combination of (id) is the primary key

Relationships (from)

Name	Information	Description
power_of_attorney_id_fk145	From columns: id To Entity: source From cardinality: 1 To Cardinality: 1	

Sequence: source_la_nr_seq

Allocates numbers 1 to 999999999 for source la number.

party

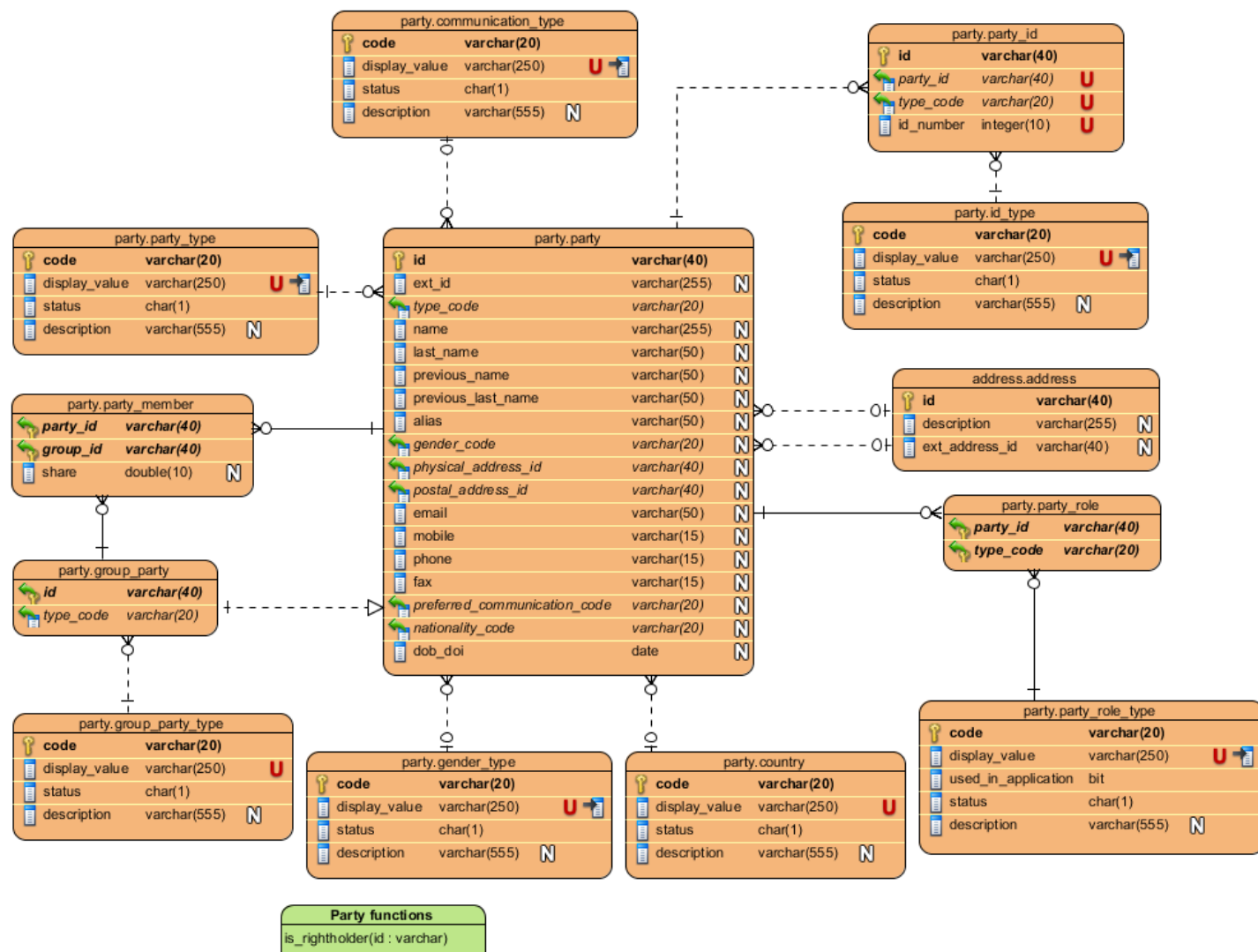


Table: party

An individual or group of individual people or a non-person organisation that is associated in some way with land office services. Also refer to LADM Definition LADM Reference Object LA_Party LADM Definition Registered and identified as a constituent of a group party.

Columns

Name	Type	Optional	Default	Description
id	varchar(40)	False		LADM Definition The identifier of the party
ext_id	varchar(255)	True		LADM Definition An identifier for the party from a system external to SOLA
type_code	varchar(20)	False		LADM Definition The type code for the party
name	varchar(255)	True		LADM Definition Name of party
last_name	varchar(50)	True		SOLA Extension - Last name of party
previous_name	varchar(50)	True		SOLA Extension - First name of father of the party.

previous_last_name	varchar(50)	True		SOLA Extension - Last name of father of the party.
alias	varchar(50)	True		SOLA Extension - Alias of the party.
gender_code	varchar(20)	True		The gender of the party. If type of the party is naturalPerson then the gender_code must be given.
physical_address_id	varchar(40)	True		Ghana extension: An identifier for the physical address of party. In the generic model this is the column address_id.
postal_address_id	varchar(40)	True		Ghana extension: This is the address id of the postal address.
email	varchar(50)	True		SOLA Extension Party's contact email address
mobile	varchar(15)	True		SOLA Extension Contact mobile number of party
phone	varchar(15)	True		SOLA Extension Landline phone number of party
fax	varchar(15)	True		SOLA Extension Fax number of party
preferred_communication_code	varchar(20)	True		SOLA Extension Code for mode of preferred communication
nationality_code	varchar(20)	True		
dob_doi	date	True		

Constraints

Name	Type	Explanation
party_pkey	PRIMARY KEY	Combination of (id) is the primary key

Relationships (from)

Name	Information	Description
party_type_code_fk2	From columns: type_code To Entity: party_type From cardinality: 0..* To Cardinality: 1	LADM relationship - no refinement
party_physical_address_id_fk31	From columns: physical_address_id To Entity: address From cardinality: 0..* To Cardinality: 0..1	FLOSS SOLA relationship - no refinement
party_preferred_communication_code_fk34	From columns: preferred_communication_code To Entity: communication_type From cardinality: 0..* To Cardinality: 0..1	FLOSS SOLA relationship - no refinement
party_gender_code_fk90	From columns: gender_code To Entity: gender_type From cardinality: 0..* To Cardinality: 0..1	

party_postal_address_id_fk117	From columns: postal_address_id To Entity: address From cardinality: 0..* To Cardinality: 0..1	
party_nationality_code_fk144	From columns: nationality_code To Entity: country From cardinality: 0..* To Cardinality: 0..1	

Relationships (to)

Name	Information	Description
party_member_party_id_fk4	From columns: party_id From Entity: party_member From cardinality: 0..* To Cardinality: 1	LADM relationship - no refinement
group_party_id_fk10	From columns: id From Entity: group_party From cardinality: 1 To Cardinality: 1	LADM relationship - no refinement
party_role_party_id_fk30	From columns: party_id From Entity: party_role From cardinality: 0..* To Cardinality: 1	FLOSS SOLA relationship - no refinement
ba_unit_as_party_party_id_fk48	From columns: party_id From Entity: ba_unit_as_party From cardinality: 0..* To Cardinality: 1	
party_for_rrr_party_id_fk76	From columns: party_id From Entity: party_for_rrr From cardinality: 0..* To Cardinality: 1	
application_party_party_id_fk110	From columns: party_id From Entity: application_party From cardinality: 0..* To Cardinality: 1	
party_id_party_id_fk118	From columns: party_id From Entity: party_id From cardinality: 0..* To Cardinality: 1	
deed_first_party_id_fk135	From columns: first_party_id From Entity: deed From cardinality: 0..* To Cardinality: 1	
deed_second_party_id_fk136	From columns: second_party_id From Entity: deed From cardinality: 0..* To Cardinality: 1	

Table: party_type

Reference Table / Code list of party types

LADM Reference Object

LA_

LADM Definition

The type of party

Columns

Name	Type	Optional	Default	Description
code	varchar(20)	False		LADM Definition - Code for party type
display_value	varchar(250)	False		LADM Definition - displayed value for party type
status	char(1)	False	't'	SOLA Extension party type status
description	varchar(555)	True		LADM Definition - description of party type

Constraints

Name	Type	Explanation
party_type_display_value_unique	UNIQUE	Combination of (display_value) is unique
party_type_pkey	PRIMARY KEY	Combination of (code) is the primary key

Relationships (to)

Name	Information	Description
party_type_code_fk2	From columns: type_code From Entity: party From cardinality: 0..* To Cardinality: 1	LADM relationship - no refinement

Data

Nr	code	display_value	status	description
1	naturalPerson	Natural Person:::Persona Naturale	c	
2	nonNaturalPerson	Non-natural Person:::Persona Giuridica	c	
3	baunit	Basic Administrative Unit:::Unita Amministrativa di Base	c	
4	group	Group:::Gruppo		

Table: group_party

Refer to LADM Definition

LADM Reference Object

LA_GroupParty

LADM Definition

Any number of parties, forming together a distinct entity, with each party identified

Columns

Name	Type	Optional	Default	Description
id	varchar(40)	False		LADM Description - Identifier of a group party
type_code	varchar(20)	False		LADM Description - The type of a group party

Constraints

Name	Type	Explanation
group_party_pkey	PRIMARY KEY	Combination of (id) is the primary key

Relationships (from)

Name	Information	Description
group_party_type_code_fk3	From columns: type_code To Entity: group_party_type From cardinality: 0..* To Cardinality: 1	LADM relationship - no refinement
group_party_id_fk10	From columns: id To Entity: party From cardinality: 1 To Cardinality: 1	LADM relationship - no refinement

Relationships (to)

Name	Information	Description
party_member_group_id_fk5	From columns: group_id From Entity: party_member From cardinality: 0..* To Cardinality: 1	LADM relationship - no refinement

Table: group_party_type

Reference Table / Code list to identify different types of groups being a party to some form of land office transaction

LADM Reference Object

LA_

LADM Definition

Not Defined

Columns

Name	Type	Optional	Default	Description
code	varchar(20)	False		LADM Definition - Group type code/identifier
display_value	varchar(250)	False		LADM Definition - A value assigned for group party type
status	char(1)	False	't'	SOLA Extension - Indication of party group type status
description	varchar(555)	True		LADM Definition -A brief description of party type

Constraints

Name	Type	Explanation
group_party_type_display_value_unique	UNIQUE	Combination of (display_value) is unique
group_party_type_pkey	PRIMARY KEY	Combination of (code) is the primary key

Relationships (to)

Name	Information	Description
group_party_type_code_fk3	From columns: type_code From Entity: group_party From cardinality: 0..* To Cardinality: 1	LADM relationship - no refinement

Data

Nr	code	display_value	status	description
1	tribe	Tribes::Tribu	x	
2	association	Association::Associazione	c	
3	family	Family::Famiglia	c	
4	baunitGroup	Basic Administrative Unit Group::Unita Gruppo Amministrativo di Base	x	

Table: party_member

Refer to LADM Definition

LADM Reference Object

LA_PartyMember

LADM Definition

A member belonging to a party.

Columns

Name	Type	Optional	Default	Description
party_id	varchar(40)	False		LADM Definition - The identifier of the party
group_id	varchar(40)	False		LADM Definition - The identifier of the party group
share	double precision	True		LADM Definition - the share of a right (restriction or responsibility) held by a party member expressed as a fraction with a numerator and denominator

Constraints

Name	Type	Explanation
party_member_pkey	PRIMARY KEY	Combination of (party_id,group_id) is the primary key

Relationships (from)

Name	Information	Description
party_member_party_id_fk4	From columns: party_id To Entity: party From cardinality: 0..* To Cardinality: 1	LADM relationship - no refinement
party_member_group_id_fk5	From columns: group_id To Entity: group_party From cardinality: 0..* To Cardinality: 1	LADM relationship - no refinement

Table: party_role

Records the role(s) a party has in land office processes

LADM Reference Object

FLOSS SOLA Extension LA_Party.role

LADM Definition

The role of a party in the data update and maintenance process

Columns

Name	Type	Optional	Default	Description
party_id	varchar(40)	False		LADM Definition - The identifier of the party
type_code	varchar(20)	False		SOLA Extension - The code for role type

Constraints

Name	Type	Explanation
party_role_pkey	PRIMARY KEY	Combination of (party_id,type_code) is the primary key

Relationships (from)

Name	Information	Description
party_role_type_code_fk29	From columns: type_code To Entity: party_role_type From cardinality: 0..* To Cardinality: 1	FLOSS SOLA relationship - no refinement
party_role_party_id_fk30	From columns: party_id To Entity: party From cardinality: 0..* To Cardinality: 1	FLOSS SOLA relationship - no refinement

Table: party_role_type

Reference Table / Code list of types of party roles

LADM Reference Object

LA_

LADM Definition

The role of the party in the data update and maintenance process;

Columns

Name	Type	Optional	Default	Description
code	varchar(20)	False		SOLA Extension - code for party role type
display_value	varchar(250)	False		SOLA Extension - displayed value of party role type
used_in_application	bool	False	false	This field is used to filter role_types that are used by applications only. Value is True if used by application.
status	char(1)	False	't'	SOLA Extension - Indication of party role type status
description	varchar(555)	True		SOLA Extension - description of party role type

Constraints

Name	Type	Explanation
party_role_type_display_value_unique	UNIQUE	Combination of (display_value) is unique
party_role_type_pkey	PRIMARY KEY	Combination of (code) is the primary key

Relationships (to)

Name	Information	Description
party_role_type_code_fk29	From columns: type_code From Entity: party_role From cardinality: 0..* To Cardinality: 1	FLOSS SOLA relationship - no refinement
application_party_role_code_fk111	From columns: role_code From Entity: application_party From cardinality: 0..* To Cardinality: 1	

Data

Nr	code	display_value	used_in_application	status	description
1	conveyor	Conveyor:::Trasportatore		x	
2	notary	Notary:::Notaio		c	
3	writer	Writer:::Autore		x	
4	surveyor	Surveyor:::Perito		x	

5	certifiedSurveyor	Licenced Surveyor::::Perito con Licenza	true	c	
6	bank	Bank::::Banca		c	
7	moneyProvider	Money Provider::::Istituto Credito		c	
8	employee	Employee::::Impiegato		x	
9	farmer	Farmer::::Contadino		x	
10	citizen	Citizen::::Cittadino		c	
11	stateAdministrator	Registrar / Approving Surveyor::::Cancelliere/ Perito Approvatore/		c	
12	landOfficer	Land Officer::::Ufficiale del Registro Territoriale		c	Extension to LADM
13	lodgingAgent	Lodging Agent::::Richiedente Registrazione	true	c	Extension to LADM
14	powerOfAttorney	Power of Attorney::::Procuratore		c	Extension to LADM
15	transferee	Transferee (to)::::Avente Causa		c	Extension to LADM
16	transferor	Transferor (from)::::Dante Causa		c	Extension to LADM
17	applicant	Applicant		c	Extension to LADM

Table: communication_type

Reference Table / Code list for the different means of communication (from land office to their clients)

LADM Reference Object

FLOSS SOLA Extension

LADM Definition

Not Applicable

Columns

Name	Type	Optional	Default	Description
code	varchar(20)	False		SOLA Extension - Communication type code
display_value	varchar(250)	False		SOLA Extension - Display value for the communication type
status	char(1)	False	't'	SOLA Extension - Status of the communication type
description	varchar(555)	True		SOLA Extension - Description of the communication type

Constraints

Name	Type	Explanation
communication_type_display_value_unique	UNIQUE	Combination of (display_value) is unique
communication_type_pkey	PRIMARY KEY	Combination of (code) is the primary key

Relationships (to)

Name	Information	Description
party_preferred_communication_code_fk34	From columns: preferred_communication_code From Entity: party From cardinality: 0..* To Cardinality: 0..1	FLOSS SOLA relationship - no refinement

Data

Nr	code	display_value	status	description
1	eMail	e-Mail:::E-mail	c	
2	fax	Fax:::Fax	c	
3	post	Post:::Posta	c	
4	phone	Phone:::Telefono	c	
5	courier	Courier:::Corriere	c	

Table: id_type

Reference Table / Code list for the types of the documents that can be used to identify a party.

LADM Reference Object

FLOSS SOLA Extension

LADM Definition

Not Applicable

Columns

Name	Type	Optional	Default	Description
code	varchar(20)	False		SOLA Extension - identifier for the type of person ID
display_value	varchar(250)	False		SOLA Extension - displayed value of type of personal ID
status	char(1)	False	't'	SOLA Extension - (personal) ID type status
description	varchar(555)	True		SOLA Extension - description of personal ID type

Constraints

Name	Type	Explanation
id_type_display_value_unique	UNIQUE	Combination of (display_value) is unique
id_type_pkey	PRIMARY KEY	Combination of (code) is the primary key

Relationships (to)

Name	Information	Description
party_id_type_code_fk119	From columns: type_code From Entity: party_id From cardinality: 0..* To Cardinality: 1	

Data

Nr	code	display_value	status	description
1	nationalID	National ID:::Carta Identita Nazionale	c	The main person ID that exists in the country:::Il principale documento identificativo nel paese
2	nationalPassport	National Passport:::Passaporto Nazionale	c	A passport issued by the country:::Passaporto fornito dal paese
3	otherPassport	Other Passport:::Altro Passaporto	c	A passport issued by another country:::Passaporto Fornito da un altro paese
4	surveyorId	Surveyor ID	c	An id that is given to a surveyor

Table: gender_type

The gender type list a party can have.

Columns

Name	Type	Optional	Default	Description
code	varchar(20)	False		SOLA Extension - code for party role type
display_value	varchar(250)	False		SOLA Extension - displayed value of party role type
status	char(1)	False	't'	SOLA Extension - Indication of party role type status
description	varchar(555)	True		SOLA Extension - description of party role type

Constraints

Name	Type	Explanation
gender_type_display_value_unique	UNIQUE	Combination of (display_value) is unique
gender_type_pkey	PRIMARY KEY	Combination of (code) is the primary key

Relationships (to)

Name	Information	Description
party_gender_code_fk90	From columns: gender_code From Entity: party From cardinality: 0..* To Cardinality: 0..1	

Data

Nr	code	display_value	status	description
1	male	Male	c	
2	female	Female	c	

Table: party_id

Ghana extension: The list of ids that are associated with a party. In the generic model, there was space only for one id defined by the columns id_type_code and id_number. These columns are removed from the party.

Columns

Name	Type	Optional	Default	Description
id	varchar(40)	False		Meaningless identifier of the id for a certain
party_id	varchar(40)	False		Id of the party
type_code	varchar(20)	False		Type code of the id
id_number	integer	False		The id number

Constraints

Name	Type	Explanation
party_id_logical_key	UNIQUE	Combination of (party_id, type_code, id_number) is unique
party_id_pkey	PRIMARY KEY	Combination of (id) is the primary key

Relationships (from)

Name	Information	Description
party_id_party_id_fk118	From columns: party_id To Entity: party From cardinality: 0..* To Cardinality: 1	
party_id_type_code_fk119	From columns: type_code To Entity: id_type From cardinality: 0..* To Cardinality: 1	

Table: country

Ghana extension: List of countries that are used in the system.

Columns

Name	Type	Optional	Default	Description
code	varchar(20)	False		
display_value	varchar(250)	False		
status	char(1)	False	't'	
description	varchar(555)	True		

Constraints

Name	Type	Explanation
country_display_value_unique	UNIQUE	Combination of (display_value) is unique
country_pkey	PRIMARY KEY	Combination of (code) is the primary key

Relationships (to)

Name	Information	Description
party_nationality_code_fk144	From columns: nationality_code From Entity: party From cardinality: 0..* To Cardinality: 0..1	

Function: is_rightholder

Gets if a party is rightholder.

Parameters

Name	Type	Direction	Description
id	varchar		Party id

administrative

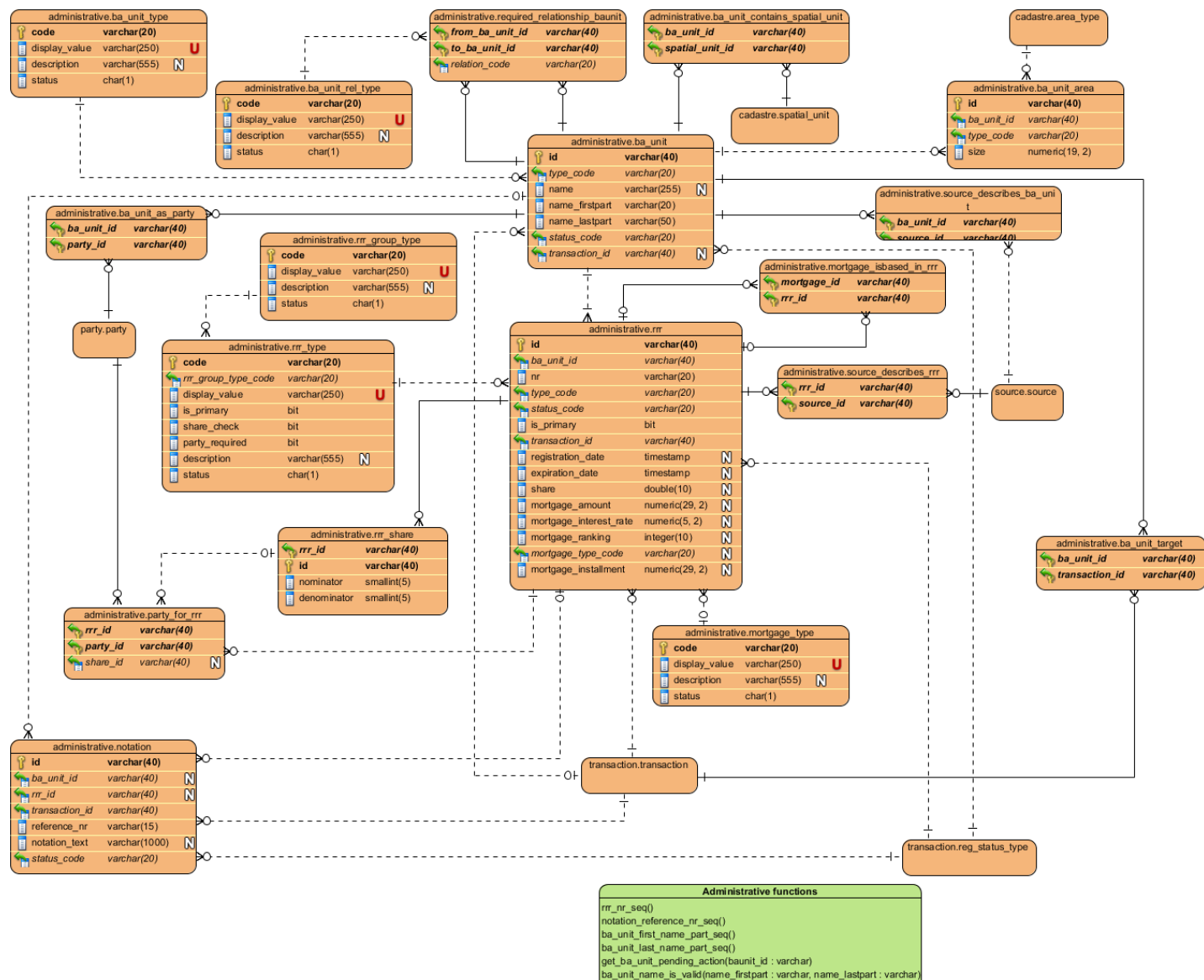


Table: ba_unit

Refer to LADM Definition

LADM Reference Object

LA_BAUnit

LADM Definition

Basic administrative units (abbreviated as baunits), are needed, among other things, to register 'basic property units', which consist of several spatial units, belonging to a party, under the same right (a right must be 'homogeneous' over the whole baunit).

Columns

Name	Type	Optional	Default	Description
id	varchar(40)	False		LADM Definition - The identifier of the basic administrative unit

type_code	varchar(20)	False		LADM Definition - The type of the basic administrative unit
name	varchar(255)	True		LADM Definition - The name of the basic administrative unit
name_firstpart	varchar(20)	False		LADM Definition - It is the part of the identifier of the property. Together with the name_lastpart is supposed to uniquely identify the property. This constraint it is not enforced, because there will be cases when it is not unique. Combination of name_firstpart and name_lastpart must derive the value of ba_unit.
name_lastpart	varchar(50)	False		LADM Definition - It is the last part of the identifier of the property. Together with the name_firstpart is supposed to uniquely identify the property. This constraint it is not enforced, because there will be cases when it is not unique. Combination of name_firstpart and name_lastpart must derive the value of ba_unit.
status_code	varchar(20)	False		The status of the ba unit.
transaction_id	varchar(40)	True		Transaction which creates the baunit.

Constraints

Name	Type	Explanation
ba_unit_pkey	PRIMARY KEY	Combination of (id) is the primary key

Relationships (from)

Name	Information	Description
ba_unit_type_code_fk6	From columns: type_code To Entity: ba_unit_type From cardinality: 0..* To Cardinality: 1	LADM relationship - no refinement
ba_unit_status_code_fk60	From columns: status_code To Entity: reg_status_type From cardinality: 0..* To Cardinality: 1	
ba_unit_transaction_id_fk82	From columns: transaction_id To Entity: transaction From cardinality: 0..* To Cardinality: 0..1	

Relationships (to)

Name	Information	Description
rrr_ba_unit_id_fk7	From columns: ba_unit_id From Entity: rrr From cardinality: 1..* To Cardinality: 1	LADM Definition - no refinement

source_describes_ba_unit_ba_unit_id_fk1	From columns: ba_unit_id From Entity: source_describes_ba_unit From cardinality: 0..* To Cardinality: 1	LADM relationship - no refinement
required_relationship_baunit_from_ba_unit_id_fk1	From columns: from_ba_unit_id From Entity: required_relationship_baunit From cardinality: 0..* To Cardinality: 1	LADM relationship - no refinement
required_relationship_baunit_to_ba_unit_id_fk1	From columns: to_ba_unit_id From Entity: required_relationship_baunit From cardinality: 0..* To Cardinality: 1	LADM relationship - no refinement
ba_unit_contains_spatial_unit_ba_unit_id_fk1	From columns: ba_unit_id From Entity: ba_unit_contains_spatial_unit From cardinality: 0..* To Cardinality: 1	LADM relationship - no refinement
application_property_ba_unit_id_fk41	From columns: ba_unit_id From Entity: application_property From cardinality: 0..* To Cardinality: 1	SOLA Extension relationship - no refinement
ba_unit_as_party_ba_unit_id_fk49	From columns: ba_unit_id From Entity: ba_unit_as_party From cardinality: 0..* To Cardinality: 1	
notation_ba_unit_id_fk69	From columns: ba_unit_id From Entity: notation From cardinality: 0..* To Cardinality: 0..1	
ba_unit_area_ba_unit_id_fk71	From columns: ba_unit_id From Entity: ba_unit_area From cardinality: 0..* To Cardinality: 1	
ba_unit_target_ba_unit_id_fk106	From columns: ba_unit_id From Entity: ba_unit_target From cardinality: 0..* To Cardinality: 1	

Table: ba_unit_type

Reference Table / Code list for types of BA Units

LADM Reference Object

LA_BAUnitType

LADM Definition

Not Defined

Columns

Name	Type	Optional	Default	Description
code	varchar(20)	False		LADM Definition Basic unit type code
display_value	varchar(250)	False		LADM Definition Display value for the basic unit type
description	varchar(555)	True		LADM Definition Description of the unit type
status	char(1)	False	't'	SOLA Extension Status of the basic unit type

Constraints

Name	Type	Explanation
ba_unit_type_display_value_unique	UNIQUE	Combination of (display_value) is unique
ba_unit_type_pkey	PRIMARY KEY	Combination of (code) is the primary key

Relationships (to)

Name	Information	Description
ba_unit_type_code_fk6	From columns: type_code From Entity: ba_unit From cardinality: 0..* To Cardinality: 1	LADM relationship - no refinement

Data

Nr	code	display_value	description	status
1	allodial	Allodial		c
2	customaryLawFreehold	Customary Law Freehold		c
3	leaseHold	Lease Hold		c
4	commonLawFreehold	Common Law Freehold		c

Table: rrr

Refer to LADM DefinitionLADM Reference Object LA_RRRLADM DefinitionA right, restriction or responsibility.

Columns

Name	Type	Optional	Default	Description
id	varchar(40)	False		LADM Definition - Identifier for the right, responsibility and restrictions
ba_unit_id	varchar(40)	False		LADM Definition - basic administrative unit identifier
nr	varchar(20)	False		This is a unique number of rrr within a baunit to identify it in baunit.
type_code	varchar(20)	False		LADM Definition - code for type of right, responsibility restriction
status_code	varchar(20)	False	'pending'	The status of the rrr.
is_primary	bool	False	false	It marks the rrr as being primary. Only one rrr can be primary for one BaUnit.
transaction_id	varchar(40)	False		The transaction that brought changes to the rrr.
registration_date	timestamp	True		This is the registration date of the rrr. It takes the value from the approval date.
expiration_date	timestamp	True		LADM Definition - the dates defining when the rrr remains in force LADM Reference Object - rrr.timespec
share	double precision	True		Actually, SOLA is defining shares in a separate table. So within one rrr we can have multiple shares instead of multiple rrr of the same type within a baunit as LADM proposes. LADM Definition - share of a right, (restriction or responsibility) expressed as a fraction with numerator and denominator
mortgage_amount	numeric(29, 2)	True		LADM Definition The amount of money of the mortgage
mortgage_interest_rate	numeric(5, 2)	True		LADM Definition Interest rate of the mortgage (percentage)
mortgage_ranking	integer	True		LADM Definition The ranking order if more than one mortgage applies to a right
mortgage_type_code	varchar(20)	True		
mortgage_installment	numeric(29, 2)	True		The installment for the mortgage

Constraints

Name	Type	Explanation
rrr_pkey	PRIMARY KEY	Combination of (id) is the primary key

Relationships (from)

Name	Information	Description
------	-------------	-------------

rrr_ba_unit_id_fk7	From columns: ba_unit_id To Entity: ba_unit From cardinality: 1..* To Cardinality: 1	LADM Definition - no refinement
rrr_type_code_fk9	From columns: type_code To Entity: rrr_type From cardinality: 0..* To Cardinality: 1	LADM relationship - no refinement
rrr_status_code_fk59	From columns: status_code To Entity: reg_status_type From cardinality: 0..* To Cardinality: 1	
rrr_mortgage_type_code_fk80	From columns: mortgage_type_code To Entity: mortgage_type From cardinality: 0..* To Cardinality: 0..1	
rrr_transaction_id_fk81	From columns: transaction_id To Entity: transaction From cardinality: 0..* To Cardinality: 1	

Relationships (to)

Name	Information	Description
source_describes_rrr_rrr_id_fk12	From columns: rrr_id From Entity: source_describes_rrr From cardinality: 0..* To Cardinality: 1	SOLA Extension relationship - no refinement
mortgage_isbased_in_rrr_rrr_id_fk57	From columns: rrr_id From Entity: mortgage_isbased_in_rrr From cardinality: 0..* To Cardinality: 0..1	
mortgage_isbased_in_rrr_mortgage_id_fk58	From columns: mortgage_id From Entity: mortgage_isbased_in_rrr From cardinality: 0..* To Cardinality: 0..1	
rrr_share_rrr_id_fk72	From columns: rrr_id From Entity: rrr_share From cardinality: 0..* To Cardinality: 1	
party_for_rrr_rrr_id_fk83	From columns: rrr_id From Entity: party_for_rrr From cardinality: 0..* To Cardinality: 1	
notation_rrr_id_fk84	From columns: rrr_id From Entity: notation From cardinality: 0..* To Cardinality: 0..1	

Triggers

Name	Event
change_from_pending	before update

Table: rrr_group_type

Reference Table / Code list for different categories of LA_RRR

LADM Reference Object

LA_Responsibility, LA_Right, LA_Restriction as specialisations of LA_RR

LADM Definition

Not Defined

Columns

Name	Type	Optional	Default	Description
code	varchar(20)	False		LADM Definition - Identifier of group type of restriction, rights responsibility
display_value	varchar(250)	False		LADM Definition - the value to be displayed
description	varchar(555)	True		LADM Definition - description of group type of restriction, rights responsibility
status	char(1)	False		SOLA Extension Status of group type of restriction, rights responsibility

Constraints

Name	Type	Explanation
rrr_group_type_display_value_unique	UNIQUE	Combination of (display_value) is unique
rrr_group_type_pkey	PRIMARY KEY	Combination of (code) is the primary key

Relationships (to)

Name	Information	Description
rrr_type_rrr_group_type_code_fk8	From columns: rrr_group_type_code From Entity: rrr_type From cardinality: 0..* To Cardinality: 1	LADM relationship - no refinement

Data

Nr	code	display_value	description	status
1	rights	Rights:::Diritti		c
2	restrictions	Restrictions:::Restrizioni		c
3	responsibilities	Responsibilities:::Responsabilita		x

Table: rrr_type

Reference Table / Code list of rrr types
 LADM Reference Object LA_RightType, LA_RestrictionType
 &LA_ResponsibilityType
 LADM Definition The type of right/restriction/responsibility

Columns

Name	Type	Optional	Default	Description
code	varchar(20)	False		LADM Definition - Code for responsibility and rights type code
rrr_group_type_code	varchar(20)	False		LADM Definition - Group restriction, responsibility and rights type code
display_value	varchar(250)	False		LADM Definition - displayed value of right (responsibility or restriction) type
is_primary	bool	False	false	
share_check	bool	False		LADM Definition - the check that totals all shares of a right (restriction or responsibility) to ensure they equal 1 (100%)
party_required	bool	False		LADM Definition - A flag to indicate that a party must related to this type of right (restriction or responsibility)
description	varchar(555)	True		LADM Definition - Description for restriction, responsibility and rights type
status	char(1)	False	't'	SOLA Extension - Status of restriction, responsibility and rights type

Constraints

Name	Type	Explanation
rrr_type_display_value_unique	UNIQUE	Combination of (display_value) is unique
rrr_type_pkey	PRIMARY KEY	Combination of (code) is the primary key

Relationships (from)

Name	Information	Description
rrr_type_rrr_group_type_code_fk8	From columns: rrr_group_type_code To Entity: rrr_group_type From cardinality: 0..* To Cardinality: 1	LADM relationship - no refinement

Relationships (to)

Name	Information	Description
rrr_type_code_fk9	From columns: type_code From Entity: rrr From cardinality: 0..* To Cardinality: 1	LADM relationship - no refinement

br_validation_target_rrr_type_code_fk56	From columns: target_rrr_type_code From Entity: br_validation From cardinality: 0..* To Cardinality: 0..1	
request_type_rrr_type_code_fk78	From columns: rrr_type_code From Entity: request_type From cardinality: 0..* To Cardinality: 0..1	
deed_instrument_type_code_fk134	From columns: instrument_type_code From Entity: deed From cardinality: 0..* To Cardinality: 1	

Data

Nr	code	rrr_group_type_code	display_value	is_primary
1	agriActivity	rights	Agriculture Activity:::Attività Agricola	false
2	commonOwnership	rights	Common Ownership:::Proprietà Comune	false
3	customaryType	rights	Customary Right:::Diritto Abituale	false
4	firewood	rights	Firewood Collection:::Collezione legna da ardere	false
5	fishing	rights	Fishing Right:::Diritto di Pesca	false
6	grazing	rights	Grazing Right:::Diritto di Pascolo	false
7	informalOccupation	rights	Informal Occupation:::Occupazione informale	false
8	lease	rights	Lease:::Affitto	false
9	occupation	rights	Occupation:::Occupazione	false
10	ownership	rights	Ownership:::Proprietà	true
11	ownershipAssumed	rights	Ownership Assumed:::Proprietà Assunta	true
12	superficies	rights	Superficies:::Superficie	false
13	tenancy	rights	Tenancy:::Locazione	true
14	usufruct	rights	Usufruct:::Usufrutto	false
15	waterrights	rights	Water Right:::Servitù di Acqua	false
16	adminPublicServitude	restrictions	Administrative Public Servitude:::Servitù Amministrazione Pubblica	false
17	monument	restrictions	Monument:::Monumento	false
18	mortgage	restrictions	Mortgage:::Ipoteca	false
19	noBuilding	restrictions	Building Restriction:::Restrizione di Costruzione	false
20	servitude	restrictions	Servitude:::Servitù	false
21	monumentMaintenance	responsibilities	Monument Maintenance:::Mantenimento Monumenti	false

22	waterwayMaintenance	responsibilities	Waterway Maintenance::::Mantenimento Acquedotti	false
23	lifeEstate	rights	Life Estate::::Patrimonio vita	true
24	apartment	rights	Apartment Ownership::::Proprieta Appartamento	true
25	stateOwnership	rights	State Ownership::::Proprieta di Stato	true
26	caveat	restrictions	Caveat::::Ammonizione	false
27	historicPreservation	restrictions	Historic Preservation::::Conservazione Storica	false
28	limitedAccess	restrictions	Limited Access (to Road)::::Accesso limitato (su strada)	false
29	rrrStandard	rights	Incidence of Interest	true

Nr	share_check	party_required	description	status
1	true	true		x
2	true	true		x
3	true	true		x
4	true	true		x
5	true	true		x
6	true	true		x
7	false	false		x
8	true	true		c
9	true	true		c
10	true	true		c
11	true	true		x
12	true	true		x
13	true	true		x
14	true	true		c
15	true	true		c
16	true	true		x
17	true	true		x
18	true	true		c
19	false	false		c
20	false	false		c
21	false	false		x
22	false	false		x
23	true	true	Extension to LADM	x
24	true	true	Extension to LADM	c
25	false	false	Extension to LADM	c

26	true	true	Extension to LADM	c
27	false	false	Extension to LADM	c
28	false	false	Extension to LADM	c
29	true	true		c

Table: mortgage_type

Reference Table / Code list for types of mortgage

LADM Reference Object

LA_

LADM Definition

Not Defined

Columns

Name	Type	Optional	Default	Description
code	varchar(20)	False		LADM Definition Type of mortgage code
display_value	varchar(250)	False		LADM Definition display value of mortgage type
description	varchar(555)	True		LADM Definition Description of type of mortgage
status	char(1)	False		SOLA Extension Status of mortgage type

Constraints

Name	Type	Explanation
mortgage_type_display_value_unique	UNIQUE	Combination of (display_value) is unique
mortgage_type_pkey	PRIMARY KEY	Combination of (code) is the primary key

Relationships (to)

Name	Information	Description
rrr_mortgage_type_code_fk80	From columns: mortgage_type_code From Entity: rrr From cardinality: 0..* To Cardinality: 0..1	

Data

Nr	code	display_value	description	status
1	levelPayment	Level Payment:::Livello Pagamento		c
2	linear	Linear:::Lineare		c
3	microCredit	Micro Credit:::Micro Credito		c

Table: mortgage_isbased_in_rrr

This is left in the data model but is not implemented, because the right that is basis for the mortgage can be implied by the primary right for ba_unit.LADM Reference Object LA_Mortgage - LA_Right RelationshipLADM DefinitionIdentifies the right that is the basis for a mortgage.

Columns

Name	Type	Optional	Default	Description
mortgage_id	varchar(40)	False		
rrr_id	varchar(40)	False		LADM Definition - Identifier for the right, responsibility and restrictions

Constraints

Name	Type	Explanation
mortgage_isbased_in_rrr_pkey	PRIMARY KEY	Combination of (mortgage_id,rrr_id) is the primary key

Relationships (from)

Name	Information	Description
mortgage_isbased_in_rrr_rrr_id_fk57	From columns: rrr_id To Entity: rrr From cardinality: 0..* To Cardinality: 0..1	
mortgage_isbased_in_rrr_mortgage_id_fk58	From columns: mortgage_id To Entity: rrr From cardinality: 0..* To Cardinality: 0..1	

Table: source_describes_rrr

Implements the many-to-many relationship identifying administrative source instances with rrr instances

LADM Reference Object

Relationship LA_AdministrativeSource - LA_RRR

LADM Definition

Not Defined

Columns

Name	Type	Optional	Default	Description
rrr_id	varchar(40)	False		LADM Definition - Identifier for the right, responsibility and restrictions
source_id	varchar(40)	False		

Constraints

Name	Type	Explanation
source_describes_rrr_pkey	PRIMARY KEY	Combination of (rrr_id,source_id) is the primary key

Relationships (from)

Name	Information	Description
source_describes_rrr_rrr_id_fk12	From columns: rrr_id To Entity: rrr From cardinality: 0..* To Cardinality: 1	SOLA Extension relationship - no refinement
source_describes_rrr_source_id_fk75	From columns: source_id To Entity: source From cardinality: 0..* To Cardinality: 1	

Table: source_describes_ba_unit

Implements the many-to-many relationship identifying administrative source instances with ba_unit instances

LADM Reference Object

Relationship LA_AdministrativeSource - LA_BAUnit

LADM Definition

Not Defined

Columns

Name	Type	Optional	Default	Description
ba_unit_id	varchar(40)	False		LADM Definition Basic unit identifier
source_id	varchar(40)	False		In Sola the source is referenced instead of the Administrative source. LADM Definition Administrative source identifier

Constraints

Name	Type	Explanation
source_describes_ba_unit_pkey	PRIMARY KEY	Combination of (ba_unit_id,source_id) is the primary key

Relationships (from)

Name	Information	Description
source_describes_ba_unit_ba_unit_id_fk13	From columns: ba_unit_id To Entity: ba_unit From cardinality: 0..* To Cardinality: 1	LADM relationship - no refinement
source_describes_ba_unit_source_id_fk65	From columns: source_id To Entity: source From cardinality: 0..* To Cardinality: 1	

Table: required_relationship_baunit

Refer to LADM Definition

LADM Reference Object

LA_RequiredRelationshipBAUnit

LADM Definition

A required relationship between basic administrative units.

Columns

Name	Type	Optional	Default	Description
from_ba_unit_id	varchar(40)	False		LADM Definition -The identifier of the originating basic administrative unit
to_ba_unit_id	varchar(40)	False		LADM Definition -The identifier of the target basic administrative unit
relation_code	varchar(20)	False		The relationship between the basic administrative units. It exists in LADM as a open text. It is decided to make it a codelist to be used also in business rules. LADM Definition LADM Reference Object Relationship

Constraints

Name	Type	Explanation
required_relationship_baunit_pkey	PRIMARY KEY	Combination of (from_ba_unit_id,to_ba_unit_id) is the primary key

Relationships (from)

Name	Information	Description
required_relationship_baunit_from_ba_unit_id	From columns: from_ba_unit_id To Entity: ba_unit From cardinality: 0..* To Cardinality: 1	LADM relationship - no refinement
required_relationship_baunit_to_ba_unit_id	From columns: to_ba_unit_id To Entity: ba_unit From cardinality: 0..* To Cardinality: 1	LADM relationship - no refinement
required_relationship_baunit_relation_code	From columns: relation_code To Entity: ba_unit_rel_type From cardinality: 0..* To Cardinality: 1	

Table: ba_unit_contains_spatial_unit

Defines the spatial unit(s) associated with ba_unit

LADM Reference Object

Implements the many to many relationship LA_BAUnit - LA_SpatialUnit

LADM Definition

Not defined .

Columns

Name	Type	Optional	Default	Description
ba_unit_id	varchar(40)	False		LADM Definition Basic administrative unit identifier
spatial_unit_id	varchar(40)	False		LADM Definition Spatial unit identifier

Constraints

Name	Type	Explanation
ba_unit_contains_spatial_unit_pkey	PRIMARY KEY	Combination of (ba_unit_id,spatial_unit_id) is the primary key

Relationships (from)

Name	Information	Description
ba_unit_contains_spatial_unit_ba_unit_id	From columns: ba_unit_id To Entity: ba_unit From cardinality: 0..* To Cardinality: 1	LADM relationship - no refinement
ba_unit_contains_spatial_unit_spatial_unit_id	From columns: spatial_unit_id To Entity: spatial_unit From cardinality: 0..* To Cardinality: 1	LADM relationship - no refinement
ba_unit_contains_spatial_unit_spatial_unit_id	From columns: spatial_unit_id To Entity: cadastre_object From cardinality: 0..* To Cardinality: 1	

Table: ba_unit_as_party

LADM Definition LA_BAUnit is associated to class LA_Party (a party may be an basic administrative unit, indicated by the attribute 'partyType').LADM Reference ObjectAssociation baunitAsParty

Columns

Name	Type	Optional	Default	Description
ba_unit_id	varchar(40)	False		The id of ba_unit
party_id	varchar(40)	False		The id of the party

Constraints

Name	Type	Explanation
ba_unit_as_party_pkey	PRIMARY KEY	Combination of (ba_unit_id,party_id) is the primary key

Relationships (from)

Name	Information	Description
ba_unit_as_party_party_id_fk48	From columns: party_id To Entity: party From cardinality: 0..* To Cardinality: 1	
ba_unit_as_party_ba_unit_id_fk49	From columns: ba_unit_id To Entity: ba_unit From cardinality: 0..* To Cardinality: 1	

Table: ba_unit_rel_type

The types of relation two ba_units can have between each other.

Columns

Name	Type	Optional	Default	Description
code	varchar(20)	False		The code
display_value	varchar(250)	False		The value that will be displayed to the user
description	varchar(555)	True		Description
status	char(1)	False		The status of this code itself.

Constraints

Name	Type	Explanation
ba_unit_rel_type_display_value_unique	UNIQUE	Combination of (display_value) is unique
ba_unit_rel_type_pkey	PRIMARY KEY	Combination of (code) is the primary key

Relationships (to)

Name	Information	Description
required_relationship_baunit_relation_code	From columns: relation_code From Entity: required_relationship_baunit From cardinality: 0..* To Cardinality: 1	

Data

Nr	code	display_value	description	status
1	priorTitle	Prior Title	Prior Title	c
2	rootTitle	Root of Title	Root of Title	c

Table: notation

All notations related with a baunit are maintained here. Every notation gets a reference number and it is always associated with a transaction.

Columns

Name	Type	Optional	Default	Description
id	varchar(40)	False		Meaningless id.
ba_unit_id	varchar(40)	True		If the notation is only related to baunit the baunit id is given.
rrr_id	varchar(40)	True		
transaction_id	varchar(40)	False		The transaction id which brought the notation.
reference_nr	varchar(15)	False		A reference number for the notation
notation_text	varchar(1000)	True		The notation text. This text is defined by a template which is to be found in request_type. The link is established by the fact that a notation comes from a transaction which optionally can be initiated by a service which is of a certain request_type.
status_code	varchar(20)	False	'pending'	The status of the notation.

Constraints

Name	Type	Explanation
notation_pkey	PRIMARY KEY	Combination of (id) is the primary key

Relationships (from)

Name	Information	Description
notation_status_code_fk68	From columns: status_code To Entity: reg_status_type From cardinality: 0..* To Cardinality: 1	
notation_ba_unit_id_fk69	From columns: ba_unit_id To Entity: ba_unit From cardinality: 0..* To Cardinality: 0..1	
notation_transaction_id_fk74	From columns: transaction_id To Entity: transaction From cardinality: 0..* To Cardinality: 1	
notation_rrr_id_fk84	From columns: rrr_id To Entity: rrr From cardinality: 0..* To Cardinality: 0..1	

Table: ba_unit_area**Columns**

Name	Type	Optional	Default	Description
id	varchar(40)	False		
ba_unit_id	varchar(40)	False		
type_code	varchar(20)	False		
size	numeric(19, 2)	False		

Constraints

Name	Type	Explanation
ba_unit_area_pkey	PRIMARY KEY	Combination of (id) is the primary key

Relationships (from)

Name	Information	Description
ba_unit_area_type_code_fk70	From columns: type_code To Entity: area_type From cardinality: 0..* To Cardinality: 1	
ba_unit_area_ba_unit_id_fk71	From columns: ba_unit_id To Entity: ba_unit From cardinality: 0..* To Cardinality: 1	

Table: rrr_share

If parties are involved in an rrr then they participate in shares. There is at least one share for each rrr.LADM
Reference Object LA_RRR.share

Columns

Name	Type	Optional	Default	Description
rrr_id	varchar(40)	False		Rrr where the share belongs to.
id	varchar(40)	False		Id of the share within a RRR.
nominator	smallint	False		Nominator / Denominator define the share.
denominator	smallint	False		Nominator / Denominator define the share.

Constraints

Name	Type	Explanation
rrr_share_pkey	PRIMARY KEY	Combination of (rrr_id,id) is the primary key

Relationships (from)

Name	Information	Description
rrr_share_rrr_id_fk72	From columns: rrr_id To Entity: rrr From cardinality: 0..* To Cardinality: 1	

Relationships (to)

Name	Information	Description
party_for_rrr_rrr_id_fk73	From columns: rrr_id,share_id From Entity: party_for_rrr From cardinality: 0..* To Cardinality: 0..1	

Table: party_for_rrr

There may be parties involved in an RRR. Parties can be involved also in Shares.

Columns

Name	Type	Optional	Default	Description
rrr_id	varchar(40)	False		Rrr where party belongs to.
party_id	varchar(40)	False		Id of the party.
share_id	varchar(40)	True		The share where the party belongs to.

Constraints

Name	Type	Explanation
party_for_rrr_pkey	PRIMARY KEY	Combination of (rrr_id,party_id) is the primary key

Relationships (from)

Name	Information	Description
party_for_rrr_rrr_id_fk73	From columns: rrr_id,share_id To Entity: rrr_share From cardinality: 0..* To Cardinality: 0..1	
party_for_rrr_party_id_fk76	From columns: party_id To Entity: party From cardinality: 0..* To Cardinality: 1	
party_for_rrr_rrr_id_fk83	From columns: rrr_id To Entity: rrr From cardinality: 0..* To Cardinality: 1	

Table: ba_unit_target

This table holds information about which ba units are being targets of a transaction. It is used when a ba unit is marked for cancellation.

Columns

Name	Type	Optional	Default	Description
ba_unit_id	varchar(40)	False		Id of the ba unit being target.
transaction_id	varchar(40)	False		Id of the transaction that targes the ba unit.

Constraints

Name	Type	Explanation
ba_unit_target_pkey	PRIMARY KEY	Combination of (ba_unit_id,transaction_id) is the primary key

Relationships (from)

Name	Information	Description
ba_unit_target_ba_unit_id_fk106	From columns: ba_unit_id To Entity: ba_unit From cardinality: 0..* To Cardinality: 1	
ba_unit_target_transaction_id_fk107	From columns: transaction_id To Entity: transaction From cardinality: 0..* To Cardinality: 1	

Sequence: rrr_nr_seq

Allocates numbers 1 to 9999 for rrr number

Sequence: notation_reference_nr_seq

Allocates numbers 1 to 9999 for reference number for notation.

Sequence: ba_unit_first_name_part_seq

Allocates numbers 1 to 9999 for ba unit first name part.

Sequence: ba_unit_last_name_part_seq

Allocates numbers 1 to 9999 for ba unit last name part.

Function: get_ba_unit_pending_action

It returns the action that must be taken in the pending ba_unit.

Parameters

Name	Type	Direction	Description
baunit_id	varchar		Id of ba unit.

Function: ba_unit_name_is_valid

This function, checks if the name parts of the ba unit are valid.

Parameters

Name	Type	Direction	Description
name_firstpart	varchar		
name_lastpart	varchar		

cadastre

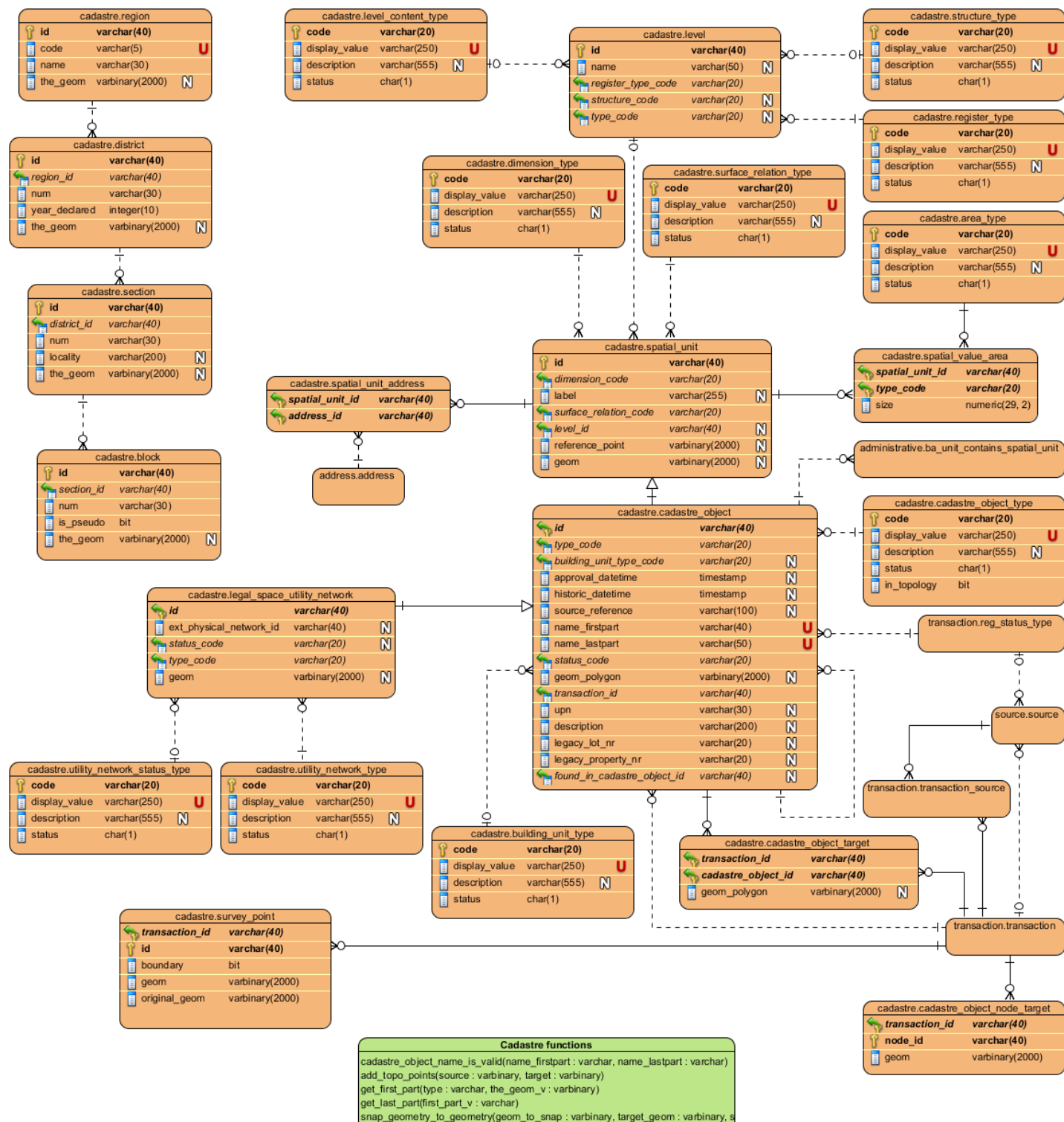


Table: spatial_unit

Single area (or multiple areas) of land or water, or a single volume (or multiple volumes) of spaceLADM Reference Object LA_SpatialUnitLADM DefinitionNot Defined

Columns

Name	Type	Optional	Default	Description
------	------	----------	---------	-------------

id	varchar(40)	False		LADM Definition - Spatial unit identifier
dimension_code	varchar(20)	False	'2D'	LADM Definition - Code for dimension
label	varchar(255)	True		LADM Definition -Label for the spatial unit
surface_relation_code	varchar(20)	False	'onSurface'	LADM Definition - Code given to the surface relation to indicate whether a spatial unit is above or below the surface
level_id	varchar(40)	True		LADM Definition - Level identifier
reference_point	GEOMETRY	True		LADM Definition -The coordinates of a point inside the spatial unit
geom	GEOMETRY	True		SOLA Extension -The geometry type of the spatial unit

Constraints

Name	Type	Explanation
spatial_unit_pkey	PRIMARY KEY	Combination of (id) is the primary key

Relationships (from)

Name	Information	Description
spatial_unit_surface_relation_code_fk19	From columns: surface_relation_code To Entity: surface_relation_type From cardinality: 0..* To Cardinality: 1	LADM relationship - no refinement
spatial_unit_level_id_fk20	From columns: level_id To Entity: level From cardinality: 0..* To Cardinality: 0..1	LADM relationship - no refinement
spatial_unit_dimension_code_fk33	From columns: dimension_code To Entity: dimension_type From cardinality: 0..* To Cardinality: 1	LADM relationship - no refinement

Relationships (to)

Name	Information	Description
spatial_value_area_spatial_unit_id_fk16	From columns: spatial_unit_id From Entity: spatial_value_area From cardinality: 0..* To Cardinality: 1	LADM relationship - no refinement
spatial_unit_address_spatial_unit_id_fk18	From columns: spatial_unit_id From Entity: spatial_unit_address From cardinality: 0..* To Cardinality: 1	FLOSS SOLA relationship - no refinement
ba_unit_contains_spatial_unit_spatial_unit_id_fk25	From columns: spatial_unit_id From Entity: ba_unit_contains_spatial_unit From cardinality: 0..* To Cardinality: 1	LADM relationship - no refinement

cadastre_object_id_fk61	From columns: id From Entity: cadastre_object From cardinality: 1 To Cardinality: 1	
application_spatial_unit_spatial_unit_id_fk1	From columns: spatial_unit_id From Entity: application_spatial_unit From cardinality: 0..* To Cardinality: 1	

Table: spatial_value_area

Refer to LADM Definition

LADM Reference Object

LA_AreaValue

LADM Definition

The area (size) of 2 dimension spatial unit

Columns

Name	Type	Optional	Default	Description
spatial_unit_id	varchar(40)	False		LADM Definition - Spatial unit identifier
type_code	varchar(20)	False		LADM Definition - Type of the spatial value area
size	numeric(29, 2)	False		LADM Definition - The area of the spatial unit

Constraints

Name	Type	Explanation
spatial_value_area_pkey	PRIMARY KEY	Combination of (spatial_unit_id,type_code) is the primary key

Relationships (from)

Name	Information	Description
spatial_value_area_spatial_unit_id_fk16	From columns: spatial_unit_id To Entity: spatial_unit From cardinality: 0..* To Cardinality: 1	LADM relationship - no refinement
spatial_value_area_type_code_fk17	From columns: type_code To Entity: area_type From cardinality: 0..* To Cardinality: 1	LADM relationship - no refinement

Table: area_type

Reference Table / Code list of the different versions or means of calculated area

LADM Reference Object

LA_AreaType

LADM Definition

Not Defined

Columns

Name	Type	Optional	Default	Description
code	varchar(20)	False		LADM Definition - code for area type
display_value	varchar(250)	False		LADM Definition - displayed value of area type
description	varchar(555)	True		LADM Definition - description of area type
status	char(1)	False	'c'	SOLA Extension - status of area type values

Constraints

Name	Type	Explanation
area_type_display_value_unique	UNIQUE	Combination of (display_value) is unique
area_type_pkey	PRIMARY KEY	Combination of (code) is the primary key

Relationships (to)

Name	Information	Description
spatial_value_area_type_code_fk17	From columns: type_code From Entity: spatial_value_area From cardinality: 0..* To Cardinality: 1	LADM relationship - no refinement
ba_unit_area_type_code_fk70	From columns: type_code From Entity: ba_unit_area From cardinality: 0..* To Cardinality: 1	

Data

Nr	code	display_value	description	status
1	calculatedArea	Calculated Area:::Area calcolata		c
2	nonOfficialArea	Non-official Area:::Area Non ufficiale		c
3	officialArea	Official Area:::Area Ufficiale		c

4	surveyedArea	Surveyed Area::::Area Sorvegliata		c
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Table: spatial_unit_address

Implements the many-to-many relationship between address and spatial_unit

LADM Reference Object

FLOSS SOLA Extension

LADM Definition

Not Applicable

Columns

Name	Type	Optional	Default	Description
spatial_unit_id	varchar(40)	False		LADM Definition - Spatial unit identifier
address_id	varchar(40)	False		LADM Definition - Address identifier

Constraints

Name	Type	Explanation
spatial_unit_address_pkey	PRIMARY KEY	Combination of (spatial_unit_id,address_id) is the primary key

Relationships (from)

Name	Information	Description
spatial_unit_address_spatial_unit_id_fk18	From columns: spatial_unit_id To Entity: spatial_unit From cardinality: 0..* To Cardinality: 1	FLOSS SOLA relationship - no refinement
spatial_unit_address_address_id_fk32	From columns: address_id To Entity: address From cardinality: 0..* To Cardinality: 1	FLOSS SOLA relationship - no refinement

Table: surface_relation_type

Refer to LADM Definition

LADM Reference Object

LA_SurfaceRelationType

LADM Definition

The type of relation that exists between spatial objects and space (surface)

Columns

Name	Type	Optional	Default	Description
code	varchar(20)	False		LADM Definition - the code identifying a surface relation type
display_value	varchar(250)	False		LADM Definition - the displayed value for a surface relation type
description	varchar(555)	True		LADM Definition - the description of a surface relation type
status	char(1)	False	't'	SOLA Extension - the status of an instance of surface relation type

Constraints

Name	Type	Explanation
surface_relation_type_display_value_unique	UNIQUE	Combination of (display_value) is unique
surface_relation_type_pkey	PRIMARY KEY	Combination of (code) is the primary key

Relationships (to)

Name	Information	Description
spatial_unit_surface_relation_code_fk19	From columns: surface_relation_code From Entity: spatial_unit From cardinality: 0..* To Cardinality: 1	LADM relationship - no refinement

Data

Nr	code	display_value	description	status
1	above	Above:::Sopra		x
2	below	Below:::Sotto		x
3	mixed	Mixed:::Misto		x
4	onSurface	On Surface:::Sulla Superficie		c

Table: level

Refer to LADM Definition

LADM Reference Object

LA_Level

LADM Definition

A set of spatial units, with a geometric, and/or topologic, and/or thematic coherence
 EXAMPLE 1 One level for an urban cadastre and another level for a rural cadastre.

EXAMPLE 2 One level with rights and another level with restrictions.

EXAMPLE 3 One level with formal rights, a second level with informal rights and a third level with customary rights.

EXAMPLE 4 One level with point based spatial units, a second level with line based spatial units, and a third level with polygon based spatial units..

Columns

Name	Type	Optional	Default	Description
id	varchar(40)	False		LADM Definition - Level identifier
name	varchar(50)	True		LADM Definition - The name of the level
register_type_code	varchar(20)	False		LADM Definition - The register type of the content of the level
structure_code	varchar(20)	True		LADM Definition - Code for the structure of the level geometry
type_code	varchar(20)	True		LADM Definition - The type of the content the level

Constraints

Name	Type	Explanation
level_pkey	PRIMARY KEY	Combination of (id) is the primary key

Relationships (from)

Name	Information	Description
level_structure_code_fk21	From columns: structure_code To Entity: structure_type From cardinality: 0..* To Cardinality: 0..1	LADM relationship - no refinement
level_register_type_code_fk22	From columns: register_type_code To Entity: register_type From cardinality: 0..* To Cardinality: 1	LADM relationship - no refinement
level_type_code_fk23	From columns: type_code To Entity: level_content_type From cardinality: 0..* To Cardinality: 0..1	LADM relationship - no refinement

Relationships (to)

Name	Information	Description
spatial_unit_level_id_fk20	From columns: level_id From Entity: spatial_unit From cardinality: 0..* To Cardinality: 0..1	LADM relationship - no refinement

Table: register_type

Reference Table / Code list for register types

LADM Reference Object

LA_

LADM Definition

The register type of the content of the [map] level

Columns

Name	Type	Optional	Default	Description
code	varchar(20)	False		LADM Definition - the code identifying a register type
display_value	varchar(250)	False		LADM Definition - the displayed value of a register type
description	varchar(555)	True		LADM Definition - the description of a register type
status	char(1)	False		SOLA Extension - the status of an instance of register type

Constraints

Name	Type	Explanation
register_type_display_value_unique	UNIQUE	Combination of (display_value) is unique
register_type_pkey	PRIMARY KEY	Combination of (code) is the primary key

Relationships (to)

Name	Information	Description
level_register_type_code_fk22	From columns: register_type_code From Entity: level From cardinality: 0..* To Cardinality: 1	LADM relationship - no refinement

Data

Nr	code	display_value	description	status
1	all	All:::Tutti		c
2	forest	Forest:::Forestale		c
3	mining	Mining:::Minerario		c
4	publicSpace	Public Space:::Spazio Pubblico		c
5	rural	Rural:::Rurale		c
6	urban	Urban:::Urbano		c

Table: structure_type

Reference Table / Code list of different forms of spatial unit definitions (within a level)

LADM Reference Object

LA_StructureType

LADM Definition

Not Defined

Columns

Name	Type	Optional	Default	Description
code	varchar(20)	False		LADM Definition - the code identifying a structure type
display_value	varchar(250)	False		LADM Definition - the displayed value for a structure type
description	varchar(555)	True		LADM Definition - the description of a structure type
status	char(1)	False	't'	SOLA Extension - the status of an instance of structure type

Constraints

Name	Type	Explanation
structure_type_display_value_unique	UNIQUE	Combination of (display_value) is unique
structure_type_pkey	PRIMARY KEY	Combination of (code) is the primary key

Relationships (to)

Name	Information	Description
level_structure_code_fk21	From columns: structure_code From Entity: level From cardinality: 0..* To Cardinality: 0..1	LADM relationship - no refinement

Data

Nr	code	display_value	description	status
1	point	Point:::Punto		c
2	polygon	Polygon:::Poligono		c
3	sketch	Sketch:::Schizzo		c
4	text	Text:::Testo		c
5	topological	Topological:::Topologico		c
6	unStructuredLine	UnstructuredLine:::LineanonDefinita		c

Table: level_content_type

Reference Table / Code list for the content type of a level

LADM Reference Object

LA_

LADM Definition

The type of the content of the level;

Columns

Name	Type	Optional	Default	Description
code	varchar(20)	False		LADM Definition - the code identifying a level content type
display_value	varchar(250)	False		LADM Definition - the displayed value of a level content type
description	varchar(555)	True		LADM Definition - a description for a level content type
status	char(1)	False	't'	SOLA Extension - the status of an instance of level content type

Constraints

Name	Type	Explanation
level_content_type_display_value_unique	UNIQUE	Combination of (display_value) is unique
level_content_type_pkey	PRIMARY KEY	Combination of (code) is the primary key

Relationships (to)

Name	Information	Description
level_type_code_fk23	From columns: type_code From Entity: level From cardinality: 0..* To Cardinality: 0..1	LADM relationship - no refinement

Data

Nr	code	display_value	description	status
1	building	Building:::Costruzione		x
2	customary	Customary:::Consueto		x
3	informal	Informal:::Informale		x
4	mixed	Mixed:::Misto		x
5	network	Network:::Rete		x
6	primaryRight	Primary Right:::Diritto Primario		c
7	responsibility	Responsibility:::Responsabilita		x
8	restriction	Restriction:::Restrizione		c

9	geographicLocator	Geographic Locators::::Locatori Geografici	Extension to LADM	c
---	-------------------	---	----------------------	---

Table: legal_space_utility_network

Refer to LADM Definition

LADM Reference Object

LA_LegalSpaceUtilityNetwork

LADM Definition

A utility network concerns legal space, which does not necessarily coincide with the physical space of a utility network..

Columns

Name	Type	Optional	Default	Description
id	varchar(40)	False		LADM Definition - Legal space utility network identifier
ext_physical_network_id	varchar(40)	True		LADM Definition - External Identifier for a physical utility network
status_code	varchar(20)	True		LADM Definition - Code for the legal space utility network
type_code	varchar(20)	False		LADM Definition - Type code for the legal space utility network
geom	GEOMETRY	True		

Constraints

Name	Type	Explanation
legal_space_utility_network_pkey	PRIMARY KEY	Combination of (id) is the primary key

Relationships (from)

Name	Information	Description
legal_space_utility_network_status_code_fk26	From columns: status_code To Entity: utility_network_status_type From cardinality: 0..* To Cardinality: 0..1	LADM relationship - no refinement
legal_space_utility_network_type_code_fk27	From columns: type_code To Entity: utility_network_type From cardinality: 0..* To Cardinality: 1	LADM relationship - no refinement
legal_space_utility_network_id_fk64	From columns: id To Entity: cadastre_object From cardinality: 1 To Cardinality: 1	

Table: building_unit_type

Reference Table / Code list for types of building units

LADM Reference Object

LA_BuildingUnitType

LADM Definition

Not Defined

Columns

Name	Type	Optional	Default	Description
code	varchar(20)	False		LADM Definition - the code identifying different building unit types
display_value	varchar(250)	False		LADM Definition - the displayed value of building unit type
description	varchar(555)	True		LADM Definition - the description of building unit type
status	char(1)	False	't'	SOLA Extension - the status of the code value for building unit type

Constraints

Name	Type	Explanation
building_unit_type_display_value_unique	UNIQUE	Combination of (display_value) is unique
building_unit_type_pkey	PRIMARY KEY	Combination of (code) is the primary key

Relationships (to)

Name	Information	Description
cadastre_object_building_unit_type_code	From columns: building_unit_type_code From Entity: cadastre_object From cardinality: 0..* To Cardinality: 0..1	

Data

Nr	code	display_value	description	status
1	individual	Individual:::Individuale		c
2	shared	Shared:::Condiviso		c

Table: utility_network_status_type

Reference Table / Code list for the status of utility networks

LADM Reference Object

LA_UtilityNetworkStatusType

LADM Definition

Status of the type of utility network

Columns

Name	Type	Optional	Default	Description
code	varchar(20)	False		LADM Definition - a code identifying a utility network status type
display_value	varchar(250)	False		LADM Definition - the displayed value of a utility network status type
description	varchar(555)	True		LADM Definition - a description of a utility network status type
status	char(1)	False	't'	SOLA Extension - the status of an instance of utility network status type

Constraints

Name	Type	Explanation
utility_network_status_type_display_value_unique	UNIQUE	Combination of (display_value) is unique
utility_network_status_type_pkey	PRIMARY KEY	Combination of (code) is the primary key

Relationships (to)

Name	Information	Description
legal_space_utility_network_status_code_ref	From columns: status_code From Entity: legal_space_utility_network From cardinality: 0..* To Cardinality: 0..1	LADM relationship - no refinement

Data

Nr	code	display_value	description	status
1	inUse	In Use:::In uso		c
2	outOfUse	Out of Use:::Fuori uso		c
3	planned	Planned:::Pianificato		c

Table: utility_network_type

Reference Table / Code list of utility network types

LADM Reference Object

LA_

LADM Definition

Not Defined

Columns

Name	Type	Optional	Default	Description
code	varchar(20)	False		LADM Definition - a code identifying a utility network type
display_value	varchar(250)	False		LADM Definition - the displayed value for a utility network type
description	varchar(555)	True		LADM Definition - the description of a utility network type
status	char(1)	False		SOLA Extension - the status of an instance of utility network type

Constraints

Name	Type	Explanation
utility_network_type_display_value_unique	UNIQUE	Combination of (display_value) is unique
utility_network_type_pkey	PRIMARY KEY	Combination of (code) is the primary key

Relationships (to)

Name	Information	Description
legal_space_utility_network_type_code_fk2	From columns: type_code From Entity: legal_space_utility_network From cardinality: 0..* To Cardinality: 1	LADM relationship - no refinement

Data

Nr	code	display_value	description	status
1	chemical	Chemicals:::Cimica		c
2	electricity	Electricity:::Elettricita		c
3	gas	Gas:::Gas		c
4	heating	Heating:::Riscaldamento		c
5	oil	Oil:::Carburante		c
6	telecommunication	Telecommunication:::Telecomunicazione		c
7	water	Water:::Acqua		c

Table: dimension_type

Reference Table / Code list to identify the number of dimensions used to define a spatial unit

LADM Reference Object

LA_DimensionType

LADM Definition

Not Defined

Columns

Name	Type	Optional	Default	Description
code	varchar(20)	False		LADM Definition - the code value to identify different dimension types
display_value	varchar(250)	False		LADM Definition - the displayed value for a dimension type
description	varchar(555)	True		LADM Definition - the description of a dimension type
status	char(1)	False	't'	

Constraints

Name	Type	Explanation
dimension_type_display_value_unique	UNIQUE	Combination of (display_value) is unique
dimension_type_pkey	PRIMARY KEY	Combination of (code) is the primary key

Relationships (to)

Name	Information	Description
spatial_unit_dimension_code_fk33	From columns: dimension_code From Entity: spatial_unit From cardinality: 0..* To Cardinality: 1	LADM relationship - no refinement

Data

Nr	code	display_value	description	status
1	0D	0D:::0D		c
2	1D	1D:::1D		c
3	2D	2D:::sD		c
4	3D	3D:::3D		c
5	liminal	Liminal		x

Table: cadastre_object_type

The type of spatial object. This defines the specialisation of the spatial unit. It can be a parcel, building_unit or backgroup data like a road etc.

Columns

Name	Type	Optional	Default	Description
code	varchar(20)	False		The code
display_value	varchar(250)	False		The value that will be displayed to the user
description	varchar(555)	True		Description
status	char(1)	False		The status of this code itself.
in_topology	bool	False	false	

Constraints

Name	Type	Explanation
cadastre_object_type_display_value_unique	UNIQUE	Combination of (display_value) is unique
cadastre_object_type_pkey	PRIMARY KEY	Combination of (code) is the primary key

Relationships (to)

Name	Information	Description
cadastre_object_type_code_fk63	From columns: type_code From Entity: cadastre_object From cardinality: 0..* To Cardinality: 1	

Data

Nr	code	display_value	description	status	in_topology
1	parcel	Parcel		c	true
2	building	Building		c	false
3	strata	Strata		c	false
4	allodial	Allodial		c	true

Table: cadastre_object

Columns

Name	Type	Optional	Default	Description
id	varchar(40)	False		
type_code	varchar(20)	False	'parcel'	SOLA Extention - It defines the type of the spatial unit.
building_unit_type_code	varchar(20)	True		
approval_datetime	timestamp	True		SOLA Extension - Approval datetime of the spatial unit change.
historic_datetime	timestamp	True		SOLA Extension - Datetime when the spatial unit is superseded and has status of historic.
source_reference	varchar(100)	True		This is a temporary solution. It is an identifier
name_firstpart	varchar(40)	False		SOLA Extension - First part of the parcel identifier. First part in combination with last part are supposed to identify uniquely the parcel.
name_lastpart	varchar(50)	False		SOLA Extension - Last part of the parcel identifier. First part in combination with last part are supposed to identify uniquely the parcel.
status_code	varchar(20)	False	'pending'	SOLA Extension - It is the status of the spatial_unit which defines if it is pending or approved.
geom_polygon	GEOMETRY	True		SOLA Extension - The polygon geometry
transaction_id	varchar(40)	False		
upn	varchar(30)	True		
description	varchar(200)	True		
legacy_lot_nr	varchar(20)	True		Ghana extension: The SMD number of the lots before the new numbering was done.
legacy_property_nr	varchar(20)	True		Ghana extension: The number on the PVLMD townsheet for a parcel.
found_in_cadastre_object_id	varchar(40)	True		

Constraints

Name	Type	Explanation
cadastre_object_name	UNIQUE	Combination of (name_firstpart, name_lastpart) is unique
cadastre_object_pkey	PRIMARY KEY	Combination of (id) is the primary key

Relationships (from)

Name	Information	Description
cadastre_object_id_fk61	From columns: id To Entity: spatial_unit From cardinality: 1 To Cardinality: 1	

cadastre_object_status_code_fk62	From columns: status_code To Entity: reg_status_type From cardinality: 0..* To Cardinality: 1	
cadastre_object_type_code_fk63	From columns: type_code To Entity: cadastre_object_type From cardinality: 0..* To Cardinality: 1	
cadastre_object_building_unit_type_code_fk67	From columns: building_unit_type_code To Entity: building_unit_type From cardinality: 0..* To Cardinality: 0..1	
cadastre_object_transaction_id_fk88	From columns: transaction_id To Entity: transaction From cardinality: 0..* To Cardinality: 1	
cadastre_object_found_in_cadastre_object_id_fk42	From columns: found_in_cadastre_object_id To Entity: cadastre_object From cardinality: 0..* To Cardinality: 1	

Relationships (to)

Name	Information	Description
legal_space_utility_network_id_fk64	From columns: id From Entity: legal_space_utility_network From cardinality: 1 To Cardinality: 1	
ba_unit_contains_spatial_unit_spatial_unit_id_fk67	From columns: spatial_unit_id From Entity: ba_unit_contains_spatial_unit From cardinality: 0..* To Cardinality: 1	
cadastre_object_target_cadastre_object_id_fk66	From columns: cadastre_object_id From Entity: cadastre_object_target From cardinality: 0..* To Cardinality: 1	

Triggers

Name	Event
remove	before delete
new	before insert
geommodify	after insert or update of geom_polygon

Table: cadastre_object_target

This is a cadastre object that is a target of a cadastre related transaction. If the transaction is not yet approved or cancelled, the cadastre object gets a pending status.

Columns

Name	Type	Optional	Default	Description
transaction_id	varchar(40)	False		The id of the transaction that is doing changes to the cadastre object.
cadastre_object_id	varchar(40)	False		The id of the cadastre object being target of transaction.
geom_polygon	GEOMETRY	True		The new geometry of the target cadastre object. It is used only when the transaction involves changes of the existing cadastre object geometry. Example of a transaction that changes an existing cadastre object is cadastre redefinition.

Constraints

Name	Type	Explanation
cadastre_object_target_pkey	PRIMARY KEY	Combination of (transaction_id,cadastre_object_id) is the primary key

Relationships (from)

Name	Information	Description
cadastre_object_target_cadastre_object_id_fk99	From columns: cadastre_object_id To Entity: cadastre_object From cardinality: 0..* To Cardinality: 1	
cadastre_object_target_transaction_id_fk92	From columns: transaction_id To Entity: transaction From cardinality: 0..* To Cardinality: 1	

Table: survey_point

Columns

Name	Type	Optional	Default	Description
transaction_id	varchar(40)	False		
id	varchar(40)	False		
boundary	bool	False	true	
geom	GEOMETRY	False		
original_geom	GEOMETRY	False		

Constraints

Name	Type	Explanation
survey_point_pkey	PRIMARY KEY	Combination of (transaction_id,id) is the primary key

Relationships (from)

Name	Information	Description
survey_point_transaction_id_fk91	From columns: transaction_id To Entity: transaction From cardinality: 0..* To Cardinality: 1	

Table: cadastre_object_node_target

The nodes that have been changed or added from the transaction.

Columns

Name	Type	Optional	Default	Description
transaction_id	varchar(40)	False		The id of the transaction that is changing or inserting a new node.
node_id	varchar(40)	False		The node id.
geom	GEOMETRY	False		The geometry of the node.

Constraints

Name	Type	Explanation
cadastre_object_node_target_pkey	PRIMARY KEY	Combination of (transaction_id,node_id) is the primary key

Relationships (from)

Name	Information	Description
cadastre_object_node_target_transaction	From Columns: transaction_id To Entity: transaction From cardinality: 0..* To Cardinality: 1	

Table: region

Columns

Name	Type	Optional	Default	Description
id	varchar(40)	False		
code	varchar(5)	False		
name	varchar(30)	False		
the_geom	GEOMETRY	True		

Constraints

Name	Type	Explanation
region_code_unique	UNIQUE	Combination of (code) is unique
region_pkey	PRIMARY KEY	Combination of (id) is the primary key

Relationships (to)

Name	Information	Description
district_region_id_fk139	From columns: region_id From Entity: district From cardinality: 0..* To Cardinality: 1	

Table: district

Columns

Name	Type	Optional	Default	Description
id	varchar(40)	False		
region_id	varchar(40)	False		
num	varchar(30)	False		
year_declared	integer	False		
the_geom	GEOMETRY	True		

Constraints

Name	Type	Explanation
district_pkey	PRIMARY KEY	Combination of (id) is the primary key

Relationships (from)

Name	Information	Description
district_region_id_fk139	From columns: region_id To Entity: region From cardinality: 0..* To Cardinality: 1	

Relationships (to)

Name	Information	Description
section_district_id_fk140	From columns: district_id From Entity: section From cardinality: 0..* To Cardinality: 1	

Table: section

Columns

Name	Type	Optional	Default	Description
id	varchar(40)	False		
district_id	varchar(40)	False		
num	varchar(30)	False		
locality	varchar(200)	True		
the_geom	GEOMETRY	True		

Constraints

Name	Type	Explanation
section_pkey	PRIMARY KEY	Combination of (id) is the primary key

Relationships (from)

Name	Information	Description
section_district_id_fk140	From columns: district_id To Entity: district From cardinality: 0..* To Cardinality: 1	

Relationships (to)

Name	Information	Description
block_section_id_fk141	From columns: section_id From Entity: block From cardinality: 0..* To Cardinality: 1	

Table: block

Columns

Name	Type	Optional	Default	Description
id	varchar(40)	False		
section_id	varchar(40)	False		
num	varchar(30)	False		
is_pseudo	bool	False	false	
the_geom	GEOMETRY	True		

Constraints

Name	Type	Explanation
block_pkey	PRIMARY KEY	Combination of (id) is the primary key

Relationships (from)

Name	Information	Description
block_section_id_fk141	From columns: section_id To Entity: section From cardinality: 0..* To Cardinality: 1	

View: survey_control

This is a view which is used to retrieve the survey points from the spatial units. It is used from the gis component.

Columns

Name	Type	Optional	Default	Description
id	varchar(40)	True		identifier
label	varchar(255)	True		Label of island
geom	GEOMETRY	True		geometry type of island

View: road

A map feature (used in the Samoa implementation) that identifies the centrelines of roads in SamoaLADM Reference ObjectFLOSS SOLA ExtensionLADM DefinitionNot Applicable

Columns

Name	Type	Optional	Default	Description
id	varchar(40)	True		Road identifier
label	varchar(255)	True		Name of each of road
geom	GEOMETRY	True		Geometry type

View: place_name

View for retrieving place names to be used in the gis component.

Columns

Name	Type	Optional	Default	Description
id	varchar(40)	True		Identifier of village
label	varchar(255)	True		Labels and description of village
geom	GEOMETRY	True		Description of the geometry type

Function: cadastre_object_name_is_valid

This function, checks if the name parts of the cadastre_object are valid.

Parameters

Name	Type	Direction	Description
name_firstpart	varchar		
name_lastpart	varchar		

Function: add_topo_points

This function searches for any point in source that falls into target. If a point is found then the point it is added in the target. It returns the modified target.

Parameters

Name	Type	Direction	Description
source	geometry		
target	geometry		

Function: get_first_part***Parameters***

Name	Type	Direction	Description
type	varchar		
the_geom_v	geometry		

Function: get_last_part***Parameters***

Name	Type	Direction	Description
first_part_v	varchar		

Function: snap_geometry_to_geometry

It snaps one geometry to the other. If points needs to be added they will be added.

Parameters

Name	Type	Direction	Description
geom_to_snap	geometry	inout	
target_geom	geometry	inout	
snap_distance	double precision		
change_target_if_needed	bool		
snapped	bool	out	
target_is_changed	bool	out	

application

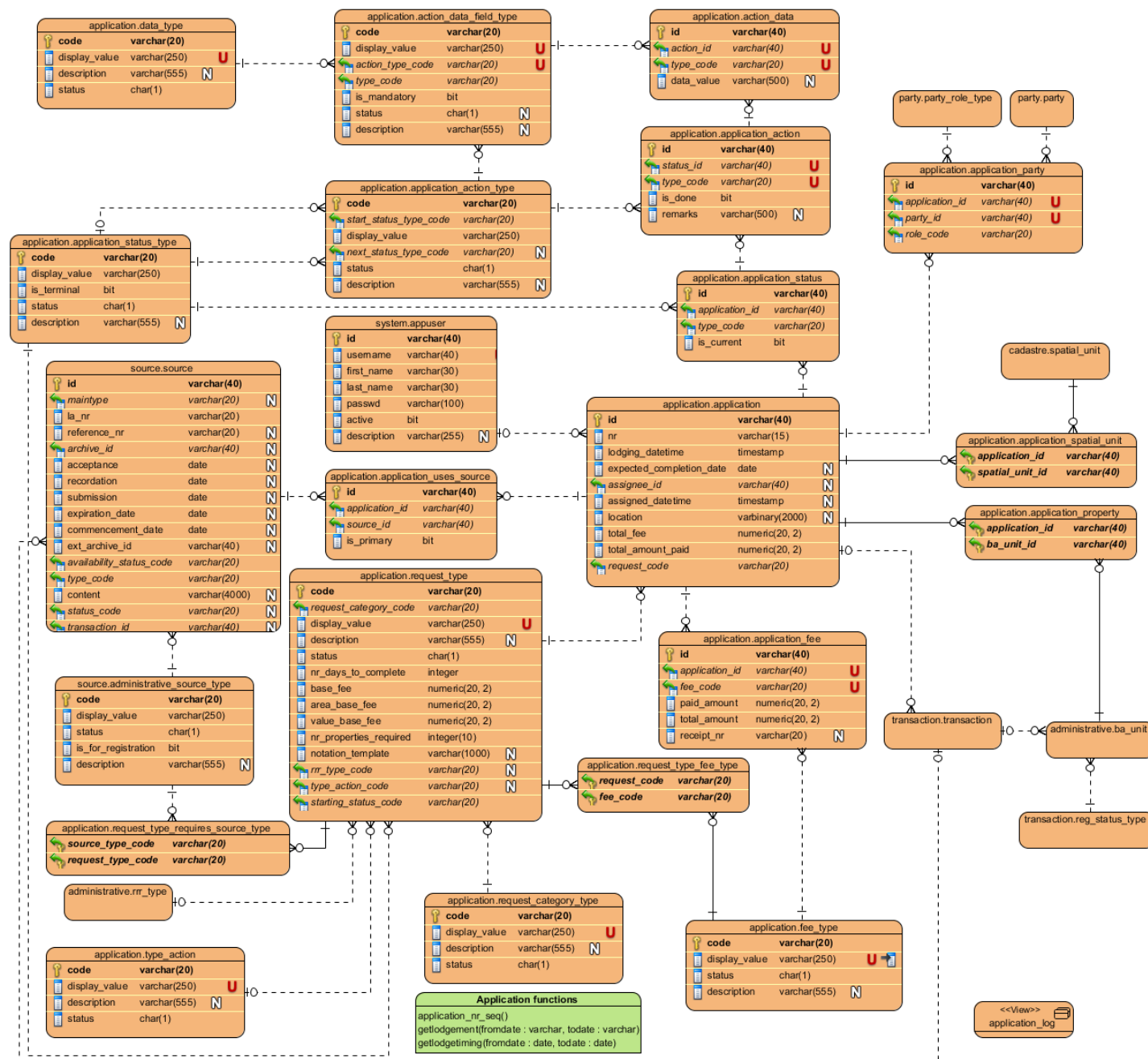


Table: application

An application is a bundle of services that a client or customer wants from the registration office.

LADM Reference Object
FLOSS SOLA Extension

LADM Definition
Not Applicable

Columns

Name	Type	Optional	Default	Description
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id	varchar(40)	False		SOLA Extension - application identifier
nr	varchar(15)	False		SOLA Extension - This is the application number that is exposed to the user. It is generated as the date + the ordinal number within that day.
lodging_datetime	timestamp	False	now()	SOLA Extension - The lodging date and time of the application. This date is important because it marks the time when the application has been officially accepted from the RO.
expected_completion_date	date	True	now()	SOLA Extension - The date when the application is supposed to be completed or cancelled by then. It is a derived value by picking up the most later expected date from the services that are boundled with the application.
assignee_id	varchar(40)	True		SOLA Extension - The person that is assigned to the application. If this value is missing it means that the application is not assigned.
assigned_datetime	timestamp	True		SOLA Extension - Date and time the application is assigned. It has a meaning only if the assignee_login_name is present.
location	GEOMETRY	True		SOLA Extension - The location of the application given as multi point in the map.
total_fee	numeric(20, 2)	False	0	Ghana extension: The column is also present in generic model, but the calculates changes. This is calculated as the total amount of fees found in application_fee table in column total_amount.
total_amount_paid	numeric(20, 2)	False	0	Ghana extension: The column is also present in generic model, but the calculates changes. This is calculated as the total amount of fees found in application_fee table in column paid_amount.
request_code	varchar(20)	False		

Constraints

Name	Type	Explanation
application_check_assigned	CHECK	Rule ((assignee_id is null and assigned_datetime is null) or (assignee_id is not null and assigned_datetime is not null)) must be true
application_pkey	PRIMARY KEY	Combination of (id) is the primary key

Relationships (from)

Name	Information	Description
application_assignee_id_fk42	From columns: assignee_id To Entity: appuser From cardinality: 0..* To Cardinality: 0..1	FLOSS SOLA relationship - no refinement

application_request_code_fk112	From columns: request_code To Entity: request_type From cardinality: 0..* To Cardinality: 1	
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Relationships (to)

Name	Information	Description
application_property_application_id_fk37	From columns: application_id From Entity: application_property From cardinality: 0..* To Cardinality: 1	FLOSS SOLA relationship - no refinement
application_uses_source_application_id_fk38	From columns: application_id From Entity: application_uses_source From cardinality: 0..* To Cardinality: 1	FLOSS SOLA relationship - no refinement
application_party_application_id_fk109	From columns: application_id From Entity: application_party From cardinality: 0..* To Cardinality: 1	
application_fee_application_id_fk113	From columns: application_id From Entity: application_fee From cardinality: 0..* To Cardinality: 1	
application_status_application_id_fk122	From columns: application_id From Entity: application_status From cardinality: 0..* To Cardinality: 1	
application_spatial_unit_application_id_fk130	From columns: application_id From Entity: application_spatial_unit From cardinality: 0..* To Cardinality: 1	
transaction_from_application_id_fk132	From columns: from_application_id From Entity: transaction From cardinality: 0..* To Cardinality: 0..1	

Table: request_type

Reference Table / Code list of the (service) request types received by a land officeLADM Reference Object FLOSS
SOLA ExtensionLADM DefinitionNot Applicable

Columns

Name	Type	Optional	Default	Description
code	varchar(20)	False		SOLA Extension - Code for the request type
request_category_code	varchar(20)	False		SOLA Extension - The code for the request category type
display_value	varchar(250)	False		SOLA Extension - The display value for the request type
description	varchar(555)	True		SOLA Extension - The description of the request type
status	char(1)	False	't'	SOLA Extension - Status of the request type
nr_days_to_complete	integer	False	0	SOLA Extension - The number of days within the service must be completed.
base_fee	numeric(20, 2)	False	0	SOLA Extension - The base fee that will be asked for this kind of request.
area_base_fee	numeric(20, 2)	False	0	SOLA Extension - The fee that will be asked per m2 of the area of the properties that will be dealt with for this kind of request.
value_base_fee	numeric(20, 2)	False	0	SOLA Extension - The fee that will be asked per value unit of the properties that will be dealt with for this kind of request.
nr_properties_required	integer	False	0	SOLA Extension - The minimum number of properties that is required by this service.
notation_template	varchar(1000)	True		
rrr_type_code	varchar(20)	True		The type of rrr which will be affected from the service of this request type. It is optional because not every request type affects rrr. If this value is filled then also the column rrr_type_action must be filled.
type_action_code	varchar(20)	True		This holds the action that has to happen on the rrr or ba unit if the request type targets rrr or ba unit.
starting_status_code	varchar(20)	False		The starting status type for application of this kind of request.

Constraints

Name	Type	Explanation
request_type_display_value_unique	UNIQUE	Combination of (display_value) is unique
request_type_pkey	PRIMARY KEY	Combination of (code) is the primary key

Relationships (from)

Name	Information	Description
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request_type_request_category_code_fk28	From columns: request_category_code To Entity: request_category_type From cardinality: 0..* To Cardinality: 1	FLOSS SOLA relationship - no refinement
request_type_rrr_type_code_fk78	From columns: rrr_type_code To Entity: rrr_type From cardinality: 0..* To Cardinality: 0..1	
request_type_type_action_code_fk79	From columns: type_action_code To Entity: type_action From cardinality: 0..* To Cardinality: 0..1	
request_type_starting_status_code_fk127	From columns: starting_status_code To Entity: application_status_type From cardinality: 0..* To Cardinality: 1	

Relationships (to)

Name	Information	Description
request_type_requires_source_type_request_type_code_fk40	From columns: request_type_code From Entity: request_type_requires_source_type From cardinality: 0..* To Cardinality: 1	FLOSS SOLA relationship - no refinement
br_validation_target_request_type_code_fk55	From columns: target_request_type_code From Entity: br_validation From cardinality: 0..* To Cardinality: 0..1	
application_request_code_fk112	From columns: request_code From Entity: application From cardinality: 0..* To Cardinality: 1	
request_type_fee_type_request_code_fk115	From columns: request_code From Entity: request_type_fee_type From cardinality: 0..* To Cardinality: 1	

Data

Nr	code	request_category_code	display_value	description	status
1	smdPlanApprov	registrationServices	Plan approval		c
2	smdApplyRegNo	registrationServices	Regional number		c
3	cadastreChange	registrationServices	Cadastre change		c
4	redefineCadastre	registrationServices	Redefine cadastre		c

Nr	nr_days_to_complete	base_fee	area_base_fee	value_base_fee	nr_properties_required	notation_template
1	10	100	100	100	100	
2	10	100	100	100	100	
3	10	100	100	100	1	
4	10	100	100	100	1	

Nr	rrr_type_code	type_action_code	starting_status_code
1			smdplanapp-submit
2			smdregnr-submit
3			smdcadchange-submit
4			smdcadredef-submit

Table: request_category_type

Reference Table / Code list for categories of (service) requests received by a land office

LADM Reference Object

FLOSS SOLA Extension

LADM Definition

Not Applicable

Columns

Name	Type	Optional	Default	Description
code	varchar(20)	False		SOLA Extension - The code request category type
display_value	varchar(250)	False		SOLA Extension - The display value for the request category type
description	varchar(555)	True		SOLA Extension - Description of the request category type
status	char(1)	False	't'	SOLA Extension - Status of the request category type

Constraints

Name	Type	Explanation
request_category_type_display_value_unique	UNIQUE	Combination of (display_value) is unique
request_category_type_pkey	PRIMARY KEY	Combination of (code) is the primary key

Relationships (to)

Name	Information	Description
request_type_request_category_code_fk28	From columns: request_category_code From Entity: request_type From cardinality: 0..* To Cardinality: 1	FLOSS SOLA relationship - no refinement

Data

Nr	code	display_value	description	status
1	registrationServices	Registration Services:::Servizi di Registrazione		c
2	informationServices	Information Services:::Servizi Informativi		c

Table: application_action_type

The list of potential action types belonging to an application status.

Columns

Name	Type	Optional	Default	Description
code	varchar(20)	False		SOLA Extension - Communication type code
start_status_type_code	varchar(20)	False		The status where the action belongs to.
display_value	varchar(250)	False		SOLA Extension - Display value for the communication type
next_status_type_code	varchar(20)	True		The status where the action can bring the application to.
status	char(1)	False	't'	SOLA Extension - Status of the communication type
description	varchar(555)	True		SOLA Extension - Description of the communication type

Constraints

Name	Type	Explanation
application_action_type_pkey	PRIMARY KEY	Combination of (code) is the primary key

Relationships (from)

Name	Information	Description
application_action_type_next_status_type	From columns: next_status_type_code To Entity: application_status_type From cardinality: 0..* To Cardinality: 0..1	
application_action_type_start_status_type	From columns: start_status_type_code To Entity: application_status_type From cardinality: 0..* To Cardinality: 1	

Relationships (to)

Name	Information	Description
br_validation_target_application_moment	From columns: target_application_moment From Entity: br_validation From cardinality: 0..* To Cardinality: 0..1	
action_data_field_type_action_type_code	From columns: action_type_code From Entity: action_data_field_type From cardinality: 0..* To Cardinality: 1	

application_action_type_code_fk121	From columns: type_code From Entity: application_action From cardinality: 0..* To Cardinality: 1	
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Data

Nr	code	start_status_type_code	display_value	next_status_type_code
1	regno-vetchecklist	smdregnr-submit	Vet against checklist	
2	regno-receivepayment	smdregnr-submit	Receive payment	
3	plangen-vetchecklist	smdplanapp-submit	Vet against checklist	
4	plangen-receivepay	smdplanapp-submit	Receive payment	
5	plangen-movenext	smdplanapp-submit	Move application to Registry	smdplanapp-registry

Nr	status	description
1		
2		
3		
4		
5		

Table: service_action_type

Reference Table / Code list of types of action that a land officer can perform to complete a service request

LADM Reference Object

FLOSS SOLA Extension

LADM Definition

Not Applicable

Columns

Name	Type	Optional	Default	Description
code	varchar(20)	False		SOLA Extension - the code identifying a service action type
display_value	varchar(250)	False		SOLA Extension - the displayed value of a service action type
status_to_set	varchar(20)	True		
status	char(1)	False	't'	SOLA Extension - the status of an instance of service action type
description	varchar(555)	True		SOLA Extension - the description of a service action type

Constraints

Name	Type	Explanation
service_action_type_display_value_unique	UNIQUE	Combination of (display_value) is unique
service_action_type_pkey	PRIMARY KEY	Combination of (code) is the primary key

Data

Nr	code	display_value	status_to_set	status	description
1	lodge	Lodge::::Registrata		c	Application for service(s) is officially received by land office (action is automatically logged when application is saved for the first time)::::La pratica per i servizi formalmente ricevuta da ufficio territoriale
2	start	Start::::Comincia		c	Provisional RRR Changes Made to Database as a result of application (action is automatically logged when a change is made to a rrr object)::::Apportate Modifiche Provvisorie di tipo RRR al Database come risultato della pratica
3	cancel	Cancel::::Cancella la pratica		c	Service is cancelled by Land Office (action is automatically logged when a service is cancelled)::::Pratica cancellata da Ufficio Territoriale
4	complete	Complete::::Completa		c	Application is ready for approval (action is automatically logged when service is marked as complete)::::Pratica pronta per approvazione

5	revert	Revert::::ITALIANO		c	The status of the service has been reverted to pending from being completed (action is automatically logged when a service is reverted back for further work)::::ITALIANO
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Table: application_property

Details of the property associated with an application

Columns

Name	Type	Optional	Default	Description
application_id	varchar(40)	False		SOLA Extension - the application id
ba_unit_id	varchar(40)	False		LADM Definition - the id for ba_unit

Constraints

Name	Type	Explanation
application_property_pkey	PRIMARY KEY	Combination of (application_id,ba_unit_id) is the primary key

Relationships (from)

Name	Information	Description
application_property_application_id_fk37	From columns: application_id To Entity: application From cardinality: 0..* To Cardinality: 1	FLOSS SOLA relationship - no refinement
application_property_ba_unit_id_fk41	From columns: ba_unit_id To Entity: ba_unit From cardinality: 0..* To Cardinality: 1	SOLA Extension relationship - no refinement

Table: application_uses_source

Sources (documents) submitted with an application, created as a result of the application by land officers or further documents added to assist in the processing of the application

LADM Reference Object

FLOSS SOLA Extension

LADM Definition

Not Applicable

Columns

Name	Type	Optional	Default	Description
id	varchar(40)	False		
application_id	varchar(40)	False		SOLA Extension - the application id
source_id	varchar(40)	False		LADM Definition - the source (document) id
is_primary	bool	False	false	It is a flag that shows if the source is primary for the particular application.

Constraints

Name	Type	Explanation
application_uses_source_pkey	PRIMARY KEY	Combination of (id) is the primary key

Relationships (from)

Name	Information	Description
application_uses_source_source_id_fk38	From columns: source_id To Entity: source From cardinality: 0..* To Cardinality: 1	FLOSS SOLA relationship - no refinement
application_uses_source_application_id_fk39	From columns: application_id To Entity: application From cardinality: 0..* To Cardinality: 1	FLOSS SOLA relationship - no refinement

Table: request_type_requires_source_type

Source (documents) required for a particular (Service) Request received by a land office

LADM Reference Object

FLOSS SOLA Extension

LADM Definition

Not Applicable

Columns

Name	Type	Optional	Default	Description
source_type_code	varchar(20)	False		SOLA Extension - source type code
request_type_code	varchar(20)	False		SOLA Extension - request type code

Constraints

Name	Type	Explanation
request_type_requires_source_type_pkey	PRIMARY KEY	Combination of (source_type_code,request_type_code) is the primary key

Relationships (from)

Name	Information	Description
request_type_requires_source_type_request_type_code	From column: request_type_code To Entity: request_type From cardinality: 0..* To Cardinality: 1	FLOSS SOLA relationship - no refinement
request_type_requires_source_type_source_type_code	From column: source_type_code To Entity: administrative_source_type From cardinality: 0..* To Cardinality: 1	FLOSS SOLA relationship - no refinement

Table: application_status_type

The list of potential statuses an application can get.

Columns

Name	Type	Optional	Default	Description
code	varchar(20)	False		SOLA Extension - status type code
display_value	varchar(250)	False		SOLA Extension - Display value for the status type
is_terminal	bool	False	false	True if this status is the end status the application can get.
status	char(1)	False	't'	SOLA Extension - Status of an instance of application status
description	varchar(555)	True		SOLA Extension - Description of application status

Constraints

Name	Type	Explanation
application_status_type_pkey	PRIMARY KEY	Combination of (code) is the primary key

Relationships (to)

Name	Information	Description
application_action_type_next_status_type	From columns: next_status_type_code From Entity: application_action_type From cardinality: 0..* To Cardinality: 0..1	
application_status_type_code_fk123	From columns: type_code From Entity: application_status From cardinality: 0..* To Cardinality: 1	
request_type_starting_status_code_fk127	From columns: starting_status_code From Entity: request_type From cardinality: 0..* To Cardinality: 1	
application_action_type_start_status_type	From columns: start_status_type_code From Entity: application_action_type From cardinality: 0..* To Cardinality: 1	

Data

Nr	code	display_value	is_terminal	status	description
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1	smdregnr-submit	Submit	true	c	
2	smdplanapp-submit	Submit		c	
3	smdplanapp-registry	Registry (Regional Office)		c	
4	smdcadchange-submit	Submit		c	
5	smdcadredef-submit	Submit		c	

Table: type_action

This is the coded list of allowed operations on rrr and ba_unit. Present values are: new, remove, vary.

Columns

Name	Type	Optional	Default	Description
code	varchar(20)	False		
display_value	varchar(250)	False		
description	varchar(555)	True		
status	char(1)	False	't'	

Constraints

Name	Type	Explanation
type_action_display_value_unique	UNIQUE	Combination of (display_value) is unique
type_action_pkey	PRIMARY KEY	Combination of (code) is the primary key

Relationships (to)

Name	Information	Description
request_type_type_action_code_fk79	From columns: type_action_code From Entity: request_type From cardinality: 0..* To Cardinality: 0..1	

Data

Nr	code	display_value	description	status
1	new	New::::ITALIANO		c
2	vary	Vary::::ITALIANO		c
3	cancel	Cancel::::ITALIANO		c

Table: application_party

Ghana extension: For each application can be a number of parties that can have different roles. In generic model, there were two parties referenced directly agent_id and contact_person_id. These two parties can be defined through this table so they are removed from the application.

Columns

Name	Type	Optional	Default	Description
id	varchar(40)	False		Meaningless id of the party within an application.
application_id	varchar(40)	False		
party_id	varchar(40)	False		
role_code	varchar(20)	False		The role that a party can get in an application. The allowed values are from the coded list party_role_type where party_role_type.used_in_application is true.

Constraints

Name	Type	Explanation
application_party_logical_key	UNIQUE	Combination of (application_id, party_id) is unique
application_party_pkey	PRIMARY KEY	Combination of (id) is the primary key

Relationships (from)

Name	Information	Description
application_party_application_id_fk109	From columns: application_id To Entity: application From cardinality: 0..* To Cardinality: 1	
application_party_party_id_fk110	From columns: party_id To Entity: party From cardinality: 0..* To Cardinality: 1	
application_party_role_code_fk111	From columns: role_code To Entity: party_role_type From cardinality: 0..* To Cardinality: 1	

Table: fee_type

Ghana extension: The types of fees applicable for a certain request.

Columns

Name	Type	Optional	Default	Description
code	varchar(20)	False		
display_value	varchar(250)	False		
status	char(1)	False	't'	
description	varchar(555)	True		

Constraints

Name	Type	Explanation
fee_type_display_value_unique	UNIQUE	Combination of (display_value) is unique
fee_type_pkey	PRIMARY KEY	Combination of (code) is the primary key

Relationships (to)

Name	Information	Description
application_fee_fee_code_fk114	From columns: fee_code From Entity: application_fee From cardinality: 0..* To Cardinality: 1	
request_type_fee_type_fee_code_fk116	From columns: fee_code From Entity: request_type_fee_type From cardinality: 0..* To Cardinality: 1	

Data

Nr	code	display_value	status	description
1	dutyStamp	Duty stamp tax	c	

Table: application_fee

Ghana extension: The fees that are applicable to an application. The fees that are listed here are already calculated by other means and they are only recorded.

Columns

Name	Type	Optional	Default	Description
id	varchar(40)	False		
application_id	varchar(40)	False		
fee_code	varchar(20)	False		The type of the fee
paid_amount	numeric(20, 2)	False		The amount paid for the fee type. This has to be equal or less than the total_amount. In order to be considered fully paid, it should be equal to total amount.
total_amount	numeric(20, 2)	False		Total amount of the fee type that needs to be paid.
receipt_nr	varchar(20)	True		The receipt number

Constraints

Name	Type	Explanation
application_fee_logical_key	UNIQUE	Combination of (application_id, fee_code) is unique
application_fee_amount_check	CHECK	Rule (paid_amount
application_fee_pkey	PRIMARY KEY	Combination of (id) is the primary key

Relationships (from)

Name	Information	Description
application_fee_application_id_fk113	From columns: application_id To Entity: application From cardinality: 0..* To Cardinality: 1	
application_fee_fee_code_fk114	From columns: fee_code To Entity: fee_type From cardinality: 0..* To Cardinality: 1	

Triggers

Name	Event
after_change	after insert or update

Table: request_type_fee_type

Ghana extension: The types of fees applicable to a given request type

Columns

Name	Type	Optional	Default	Description
request_code	varchar(20)	False		
fee_code	varchar(20)	False		

Constraints

Name	Type	Explanation
request_type_fee_type_pkey	PRIMARY KEY	Combination of (request_code,fee_code) is the primary key

Relationships (from)

Name	Information	Description
request_type_fee_type_request_code_fk115	From columns: request_code To Entity: request_type From cardinality: 0..* To Cardinality: 1	
request_type_fee_type_fee_code_fk116	From columns: fee_code To Entity: fee_type From cardinality: 0..* To Cardinality: 1	

Table: action_data_field_type

The list of data elements that can be captured for a certain action type.

Columns

Name	Type	Optional	Default	Description
code	varchar(20)	False		
display_value	varchar(250)	False		
action_type_code	varchar(20)	False		The action type where the data element can be captured.
type_code	varchar(20)	False		The data type of the data element.
is_mandatory	bool	False	false	
status	char(1)	True		
description	varchar(555)	True		

Constraints

Name	Type	Explanation
action_data_field_type_display_in_action	UNIQUE	Combination of (display_value, action_type_code) is unique
action_data_field_type_pkey	PRIMARY KEY	Combination of (code) is the primary key

Relationships (from)

Name	Information	Description
action_data_field_type_action_type_code_fk126	From columns: action_type_code To Entity: application_action_type From cardinality: 0..* To Cardinality: 1	
action_data_field_type_type_code_fk129	From columns: type_code To Entity: data_type From cardinality: 0..* To Cardinality: 1	

Relationships (to)

Name	Information	Description
action_data_type_code_fk126	From columns: type_code From Entity: action_data From cardinality: 0..* To Cardinality: 1	

Table: application_action

The list of actions belonging to a certain status. In the moment that the application goes to a new status, the list of actions for this status is filled in.

Columns

Name	Type	Optional	Default	Description
id	varchar(40)	False		
status_id	varchar(40)	False		
type_code	varchar(20)	False		
is_done	bool	False	false	Flag that shows if the action is completed.
remarks	varchar(500)	True		Remarks describing a certain action.

Constraints

Name	Type	Explanation
application_action_action	UNIQUE	Combination of (status_id, type_code) is unique
application_action_pkey	PRIMARY KEY	Combination of (id) is the primary key

Relationships (from)

Name	Information	Description
application_action_type_code_fk121	From columns: type_code To Entity: application_action_type From cardinality: 0..* To Cardinality: 1	
application_action_status_id_fk124	From columns: status_id To Entity: application_status From cardinality: 0..* To Cardinality: 1	

Relationships (to)

Name	Information	Description
action_data_action_id_fk125	From columns: action_id From Entity: action_data From cardinality: 0..* To Cardinality: 1	

Table: application_status

The statuses that an application went through. The first status of the application is defined in the moment when the application is created. The status type is defined in the field of request_type.start_status_code.

Columns

Name	Type	Optional	Default	Description
id	varchar(40)	False		
application_id	varchar(40)	False		
type_code	varchar(20)	False		
is_current	bool	False	true	Flag showing the current status of the application. This is a derived value. The latest status has to be also the current one.

Constraints

Name	Type	Explanation
application_status_pkey	PRIMARY KEY	Combination of (id) is the primary key

Relationships (from)

Name	Information	Description
application_status_application_id_fk122	From columns: application_id To Entity: application From cardinality: 0..* To Cardinality: 1	
application_status_type_code_fk123	From columns: type_code To Entity: application_status_type From cardinality: 0..* To Cardinality: 1	

Relationships (to)

Name	Information	Description
application_action_status_id_fk124	From columns: status_id From Entity: application_action From cardinality: 0..* To Cardinality: 1	

Table: action_data

Data related with a certain action.

Columns

Name	Type	Optional	Default	Description
id	varchar(40)	False		
action_id	varchar(40)	False		
type_code	varchar(20)	False		The type of the data.
data_value	varchar(500)	True		The data itself.

Constraints

Name	Type	Explanation
action_data_data	UNIQUE	Combination of (action_id, type_code) is unique
action_data_pkey	PRIMARY KEY	Combination of (id) is the primary key

Relationships (from)

Name	Information	Description
action_data_action_id_fk125	From columns: action_id To Entity: application_action From cardinality: 0..* To Cardinality: 1	
action_data_type_code_fk126	From columns: type_code To Entity: action_data_field_type From cardinality: 0..* To Cardinality: 1	

Table: data_type

The list of data types that data elements involved in actions can take.

Columns

Name	Type	Optional	Default	Description
code	varchar(20)	False		SOLA Extension - The code request category type
display_value	varchar(250)	False		SOLA Extension - The display value for the request category type
description	varchar(555)	True		SOLA Extension - Description of the request category type
status	char(1)	False	't'	SOLA Extension - Status of the request category type

Constraints

Name	Type	Explanation
data_type_display_value_unique	UNIQUE	Combination of (display_value) is unique
data_type_pkey	PRIMARY KEY	Combination of (code) is the primary key

Relationships (to)

Name	Information	Description
action_data_field_type_type_code_fk129	From columns: type_code From Entity: action_data_field_type From cardinality: 0..* To Cardinality: 1	

Table: application_spatial_unit

Columns

Name	Type	Optional	Default	Description
application_id	varchar(40)	False		
spatial_unit_id	varchar(40)	False		

Constraints

Name	Type	Explanation
application_spatial_unit_pkey	PRIMARY KEY	Combination of (application_id,spatial_unit_id) is the primary key

Relationships (from)

Name	Information	Description
application_spatial_unit_application_id_fk1	From columns: application_id To Entity: application From cardinality: 0..* To Cardinality: 1	
application_spatial_unit_spatial_unit_id_fk1	From columns: spatial_unit_id To Entity: spatial_unit From cardinality: 0..* To Cardinality: 1	

View: application_log

A log of applications for land office servicesGhana extension: It gives a list of actions that has happen with an application.

Sequence: application_nr_seq

Allocates numbers 1 to 9999 for application number

Function: getlodgement

Parameters

Name	Type	Direction	Description
fromdate	varchar		From date
todate	varchar		To date.

Function: getlodgetiming

Parameters

Name	Type	Direction	Description
fromdate	date		From date
todate	date		To date

address

address.address			
	id	varchar(40)	
	description	varchar(255)	N
	ext_address_id	varchar(40)	N

Table: address

Describes a postal or location address

LADM Reference Object
FLOSS SOLA Extension

LADM Definition
Not Applicable

Columns

Name	Type	Optional	Default	Description
id	varchar(40)	False		SOLA Extension - Address identifier
description	varchar(255)	True		SOLA Extension - Description of an address
ext_address_id	varchar(40)	True		SOLA Extension Identifier of an address referencing an external system.

Constraints

Name	Type	Explanation
address_pkey	PRIMARY KEY	Combination of (id) is the primary key

Relationships (to)

Name	Information	Description
party_physical_address_id_fk31	From columns: physical_address_id From Entity: party From cardinality: 0..* To Cardinality: 0..1	FLOSS SOLA relationship - no refinement

spatial_unit_address_address_id_fk32	From columns: address_id From Entity: spatial_unit_address From cardinality: 0..* To Cardinality: 1	FLOSS SOLA relationship - no refinement
party_postal_address_id_fk117	From columns: postal_address_id From Entity: party From cardinality: 0..* To Cardinality: 0..1	

system

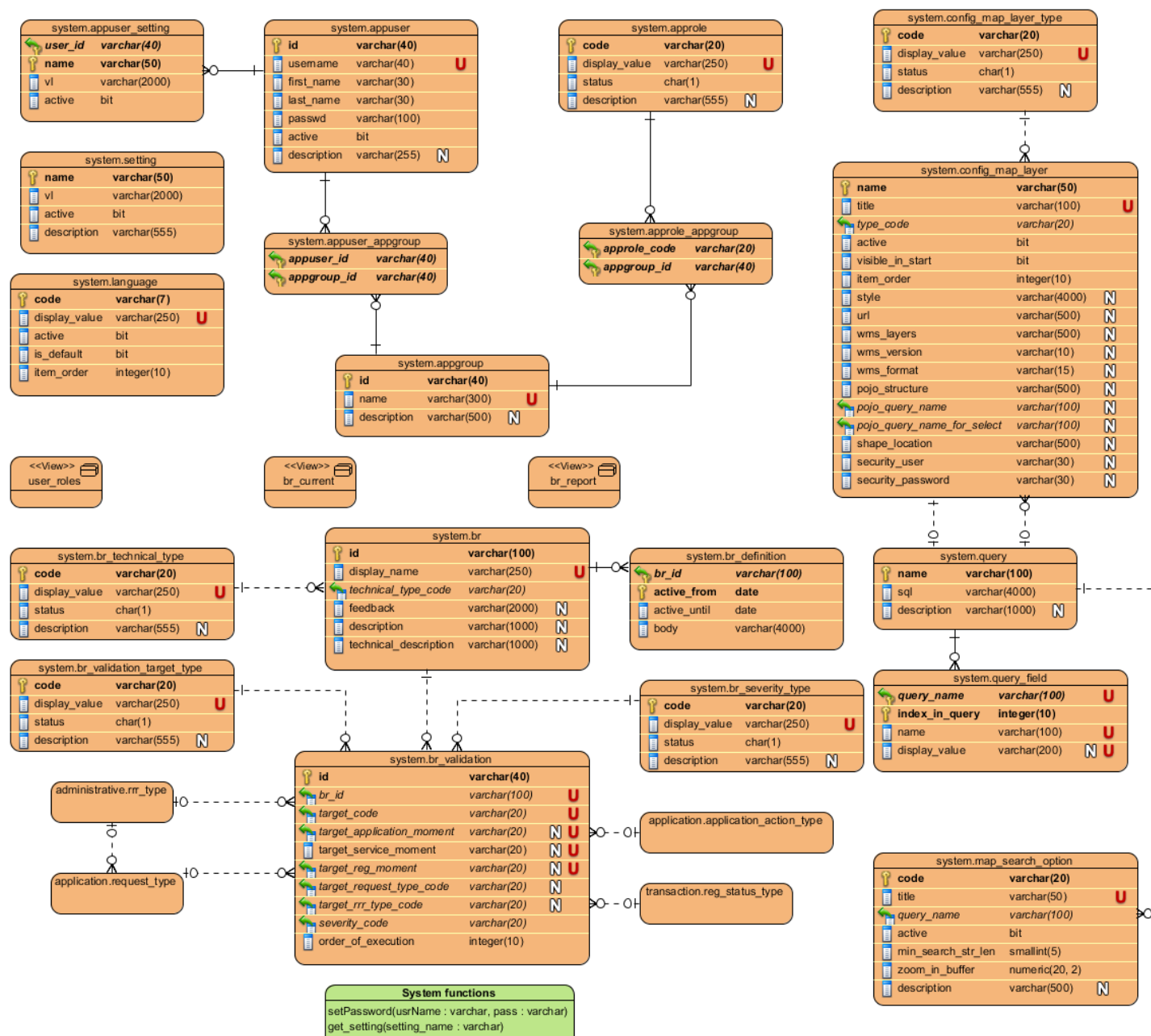


Table: appuser

This table contains list of users, who has an access to the application, can login and do certain actions.

Columns

Name	Type	Optional	Default	Description
id	varchar(40)	False		SOLA Extension - the SOLA user id
username	varchar(40)	False		SOLA Extension - User name of a SOLA user
first_name	varchar(30)	False		SOLA Extension - First name of SOLA user
last_name	varchar(30)	False		SOLA Extension - Last name of SOLA user
passwd	varchar(100)	False	uuid_generate_v4()	SOLA Extension - Password of the SOLA user

active	bool	False	true	SOLA Extension - the flag for whether a SOLA user is considered active (or not)
description	varchar(255)	True		SOLA Extension - a description of the SOLA user

Constraints

Name	Type	Explanation
appuser_username_unique	UNIQUE	Combination of (username) is unique
appuser_pkey	PRIMARY KEY	Combination of (id) is the primary key

Relationships (to)

Name	Information	Description
application_assignee_id_fk42	From columns: assignee_id From Entity: application From cardinality: 0..* To Cardinality: 0..1	FLOSS SOLA relationship - no refinement
appuser_setting_user_id_fk43	From columns: user_id From Entity: appuser_setting From cardinality: 0..* To Cardinality: 1	FLOSS SOLA relationship - no refinement
appuser_appgroup_appuser_id_fk95	From columns: appuser_id From Entity: appuser_appgroup From cardinality: 0..* To Cardinality: 1	

Data

Nr	id	username	first_name
1	test-id	test	Test

Nr	last_name	passwd	active	description
1	The BOSS	9f86d081884c7d659a2feaa0c55ad015a3bf4f1b2b0b822cd15d6c15b0f00a08	true	

Table: setting

Global settings for the FLOSS SOLA application

LADM Reference Object

FLOSS SOLA Extension

LADM Definition

Not Applicable

Columns

Name	Type	Optional	Default	Description
name	varchar(50)	False		SOLA Extension - name of the setting
vl	varchar(2000)	False		SOLA Extension - Value of the setting
active	bool	False	true	SOLA Extension - if the setting is active or not.
description	varchar(555)	False		

Constraints

Name	Type	Explanation
setting_pkey	PRIMARY KEY	Combination of (name) is the primary key

Data

Nr	name	vl	active	description
1	map-srid	32630	true	The srid of the geographic data that are administered in the system.
2	map-west	807000	true	The most west coordinate. It is used in the map control.
3	map-south	612400	true	The most south coordinate. It is used in the map control.
4	map-east	816600	true	The most east coordinate. It is used in the map control.
5	map-north	622000	true	The most north coordinate. It is used in the map control.
6	map-tolerance	0.01	true	The tolerance that is used while snapping geometries to each other. If two points are within this distance are considered being in the same location.
7	map-shift-tolerance-rural	20	true	The shift tolerance of boundary points used in cadastre change in rural areas.
8	map-shift-tolerance-urban	5	true	The shift tolerance of boundary points used in cadastre change in urban areas.

Table: appuser_setting

Software settings specific for a user within the FLOSS SOLA application

LADM Reference Object

FLOSS SOLA Extension

LADM Definition

Not Applicable

Columns

Name	Type	Optional	Default	Description
user_id	varchar(40)	False		SOLA Extension - SOLA user id
name	varchar(50)	False		SOLA Extension - name of the setting
vl	varchar(2000)	False		SOLA Extension - value of the setting
active	bool	False	true	SOLA Extension - if the setting is active

Constraints

Name	Type	Explanation
appuser_setting_pkey	PRIMARY KEY	Combination of (user_id,name) is the primary key

Relationships (from)

Name	Information	Description
appuser_setting_user_id_fk43	From columns: user_id To Entity: appuser From cardinality: 0..* To Cardinality: 1	FLOSS SOLA relationship - no refinement

Table: language

The languages that can be used within the FLOSS SOLA application.

LADM Reference Object

FLOSS SOLA Extension

LADM Definition

Not Applicable

Columns

Name	Type	Optional	Default	Description
code	varchar(7)	False		SOLA Extension - A unique code of the localization.
display_value	varchar(250)	False		SOLA Extension - displayed value of localisation setting
active	bool	False	true	SOLA Extension -status of the instance of language
is_default	bool	False	false	SOLA Extension - If it is the default. One of the records in this table can have this value true.
item_order	integer	False	1	

Constraints

Name	Type	Explanation
language_display_value_unique	UNIQUE	Combination of (display_value) is unique
language_pkey	PRIMARY KEY	Combination of (code) is the primary key

Data

Nr	code	display_value	active	is_default	item_order
1	en-US	English:::Inglese	true	true	1
2	it-IT	Italian:::Italiano	true	false	2

Table: config_map_layer

Parameters for defining map layers in FLOSS SOLA gis componentLADM Reference ObjectFLOSS SOLA ExtensionLADM DefinitionNot Applicable

Columns

Name	Type	Optional	Default	Description
name	varchar(50)	False		SOLA Extension - name of map layer
title	varchar(100)	False		
type_code	varchar(20)	False		SOLA Extension - map layer type
active	bool	False	true	SOLA Extension - flag to indicate whether instance of config map layer is active (or not)
visible_in_start	bool	False	true	If it is true, the layer will be switched on in the start of the map control.
item_order	integer	False	0	SOLA Extension - map layer order of display
style	varchar(4000)	True		Map layer style given in SLD.
url	varchar(500)	True		SOLA Extension - wms url of map layer
wms_layers	varchar(500)	True		SOLA Extension - wms layer id (or name)
wms_version	varchar(10)	True		
wms_format	varchar(15)	True		
pojo_structure	varchar(500)	True		SOLA Extension - plain old java object structure
pojo_query_name	varchar(100)	True		SOLA Extension - plain old java object query name
pojo_query_name_for_select	varchar(100)	True		SOLA Extension - plain old java object query name for select
shape_location	varchar(500)	True		SOLA Extension - location of map layer shape definitions
security_user	varchar(30)	True		
security_password	varchar(30)	True		

Constraints

Name	Type	Explanation
config_map_layer_fields_required	CHECK	Rule (case when type_code = 'wms' then url is not null and wms_layers is not null when type_code = 'pojo' then pojo_query_name is not null and pojo_structure is not null and style is not null when type_code = 'shape' then shape_location is not null and style is not null end) must be true It checks if the information is filled properly for each of type of the layer supported.
config_map_layer_title_unique	UNIQUE	Combination of (title) is unique
config_map_layer_pkey	PRIMARY KEY	Combination of (name) is the primary key

Relationships (from)

Name	Information	Description
config_map_layer_type_code_fk47	From columns: type_code To Entity: config_map_layer_type From cardinality: 0..* To Cardinality: 1	FLOSS SOLA relationship - no refinement
config_map_layer_pojo_query_name_fk103	From columns: pojo_query_name To Entity: query From cardinality: 1 To Cardinality: 0..1	
config_map_layer_pojo_query_name_for_select_fk104	From columns: pojo_query_name_for_select To Entity: query From cardinality: 0..* To Cardinality: 0..1	

Data

Nr	name	title	type_code	active	visible_in_start
1	parcels	Parcels	pojo	true	true
2	pending-parcels	Pending parcels	pojo	true	true
3	applications	Applications	pojo	true	true
4	parcels-historic-current-ba	Historic parcels with current titles	pojo	true	true
5	regions	Regions	pojo	true	true
6	districts	Districts	pojo	true	true
7	sections	Sections	pojo	true	true
8	blocks	Blocks	pojo	true	true
9	buildings	Buildings	pojo	true	true
10	allodials	Allodials	pojo	true	true

Nr	item_order	style	url	wms_layers	wms_version
1	20	parcel.xml			
2	30	pending_parcels.xml			
3	70	application.xml			
4	10	parcel_historic_current_ba.xml			
5	80	region.xml			
6	90	district.xml			
7	100	section.xml			
8	110	block.xml			
9	120	building.xml			
10	130	allodial.xml			

Nr	wms_format	pojo_structure
1		theGeom:Polygon,label:""

2		theGeom:Polygon,label:""
3		theGeom:MultiPoint,label:""
4		theGeom:Polygon,label:""
5		theGeom:Polygon,label:""
6		theGeom:Polygon,label:""
7		theGeom:Polygon,label:""
8		theGeom:Polygon,label:""
9		theGeom:Polygon,label:""
10		theGeom:Polygon,label:""

query_name	pojo_query_name_for_select	shape
alResult.getParcels	dynamic.informationtool.get_parcel	
alResult.getParcelsPending	dynamic.informationtool.get_parcel_pending	
alResult.getApplications	dynamic.informationtool.get_application	
alResult.getParcelsHistoricWithCurrentBA	dynamic.informationtool.get_parcel_historic_current_ba	
alResult.getRegion	dynamic.informationtool.get_region	
alResult.getDistrict	dynamic.informationtool.get_district	
alResult.getSection	dynamic.informationtool.get_section	
alResult.getBlock	dynamic.informationtool.get_block	
alResult.getBuildings	dynamic.informationtool.get_building	
alResult.getAllodials	dynamic.informationtool.get_allodial	

Nr	security_user	security_password
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

Table: config_map_layer_type

Parameters for defining categories/types of map layers in FLOSS SOLA gis component

LADM Reference Object

FLOSS SOLA Extension

LADM Definition

Not Applicable

Columns

Name	Type	Optional	Default	Description
code	varchar(20)	False		SOLA Extension - code identifying a config map layer type
display_value	varchar(250)	False		SOLA Extension - displayed value of config map layer type
status	char(1)	False		SOLA Extension - status of an instance of config map layer type
description	varchar(555)	True		SOLA Extension - description of config map layer type

Constraints

Name	Type	Explanation
config_map_layer_type_display_value_unique	UNIQUE	Combination of (display_value) is unique
config_map_layer_type_pkey	PRIMARY KEY	Combination of (code) is the primary key

Relationships (to)

Name	Information	Description
config_map_layer_type_code_fk47	From columns: type_code From Entity: config_map_layer From cardinality: 0..* To Cardinality: 1	FLOSS SOLA relationship - no refinement

Data

Nr	code	display_value	status	description
1	wms	WMS server with layers::::Server WMS con layer	c	
2	shape	Shapefile::::Shapefile	c	
3	pojo	Pojo layer::::Pojo layer	c	

Table: br

In this table there are defined the business rules that are used in the system.

Columns

Name	Type	Optional	Default	Description
id	varchar(100)	False		The name of the business rule
display_name	varchar(250)	False	uuid_generate_v4()	This is a compact identifier for the business rule.
technical_type_code	varchar(20)	False		The implementation type of the rule. This defines also which engine must interpret the rule.
feedback	varchar(2000)	True		A message that will be sent to the user if the rule is broken. It is not always relevant.
description	varchar(1000)	True		Here it comes description about the rule for the end-user.
technical_description	varchar(1000)	True		This is a description aimed for developers. Here it should come also description about parameters used for the rule.

Constraints

Name	Type	Explanation
br_display_name_unique	UNIQUE	Combination of (display_name) is unique
br_pkey	PRIMARY KEY	Combination of (id) is the primary key

Relationships (from)

Name	Information	Description
br_technical_type_code_fk50	From columns: technical_type_code To Entity: br_technical_type From cardinality: 0..* To Cardinality: 1	

Relationships (to)

Name	Information	Description
br_validation_br_id_fk51	From columns: br_id From Entity: br_validation From cardinality: 0..* To Cardinality: 1	
br_definition_br_id_fk52	From columns: br_id From Entity: br_definition From cardinality: 0..* To Cardinality: 1	

Table: br_technical_type

Here are specified the types of technical implementations of the business rule.

Columns

Name	Type	Optional	Default	Description
code	varchar(20)	False		The code
display_value	varchar(250)	False		The value that will be displayed to the user
status	char(1)	False		The status of this code itself.
description	varchar(555)	True		Description

Constraints

Name	Type	Explanation
br_technical_type_display_value_unique	UNIQUE	Combination of (display_value) is unique
br_technical_type_pkey	PRIMARY KEY	Combination of (code) is the primary key

Relationships (to)

Name	Information	Description
br_technical_type_code_fk50	From columns: technical_type_code From Entity: br From cardinality: 0..* To Cardinality: 1	

Data

Nr	code	display_value	status	description
1	sql	SQL:::SQL	c	The rule definition is based in sql and it is executed by the database engine.
2	drools	Drools:::Drools	c	The rule definition is based on Drools engine.

Table: br_validation

In this table are defined the sets of rules that has to be executed. If for a rule there is not target moment specified, then the rule will not be part of the set.

Columns

Name	Type	Optional	Default	Description
id	varchar(40)	False	uuid_generate_v4()	This is a meaningless identifier for the rule.
br_id	varchar(100)	False		Name of the business rule
target_code	varchar(20)	False		The type of the target of the the validation.
target_application_moment	varchar(20)	True		The moment of execution of the rule if the target is the application.
target_service_moment	varchar(20)	True		The moment of execution of the rule if the target is the service.
target_reg_moment	varchar(20)	True		The moment of execution of the rule if the target is the ba_unit, rrr or cadastre_object.
target_request_type_code	varchar(20)	True		If the target is a request type then here is given which is the request type. If this is null the business rule will be relevant for all services.
target_rrr_type_code	varchar(20)	True		If the target is a registration on RRR then here is given the rrr type. If this is null the business rule validation will be valid for all rrr-s.
severity_code	varchar(20)	False		Severity of the failure of the business rule.
order_of_execution	integer	False	0	The order of the execution of the rule.

Constraints

Name	Type	Explanation
br_validation_service_request_type_valid	CHECK	Rule (target_request_type_code is null or (target_request_type_code is not null and target_code != 'application')) must be true It checks if the target_request_type_code is provided then the target_code must not be of value 'application'.
br_validation_rrr_rrr_type_valid	CHECK	Rule (target_rrr_type_code is null or (target_rrr_type_code is not null and target_code = 'rrr')) must be true It checks if the target_rrr_type_code is provided then the target_code must be of value 'rrr'.
br_validation_app_moment_unique	UNIQUE	Combination of (br_id, target_code, target_application_moment) is unique
br_validation_service_moment_unique	UNIQUE	Combination of (br_id, target_code, target_service_moment) is unique
br_validation_reg_moment_unique	UNIQUE	Combination of (br_id, target_code, target_reg_moment) is unique
br_validation_service_moment_valid	CHECK	Rule (target_code!= 'service' or (target_code = 'service' and target_application_moment is null and target_reg_moment is null)) must be true
br_validation_application_moment_valid	CHECK	Rule (target_code!= 'application' or (target_code = 'application' and target_service_moment is null and target_reg_moment is null)) must be true

br_validation_reg_moment_valid	CHECK	Rule (target_code in ('application', 'service') or (target_code not in ('application', 'service') and target_service_moment is null and target_application_moment is null)) must be true
br_validation_pkey	PRIMARY KEY	Combination of (id) is the primary key

Relationships (from)

Name	Information	Description
br_validation_br_id_fk51	From columns: br_id To Entity: br From cardinality: 0..* To Cardinality: 1	
br_validation_severity_code_fk53	From columns: severity_code To Entity: br_severity_type From cardinality: 0..* To Cardinality: 1	
br_validation_target_code_fk54	From columns: target_code To Entity: br_validation_target_type From cardinality: 0..* To Cardinality: 1	
br_validation_target_request_type_code_fk55	From columns: target_request_type_code To Entity: request_type From cardinality: 0..* To Cardinality: 0..1	
br_validation_target_rrr_type_code_fk56	From columns: target_rrr_type_code To Entity: rrr_type From cardinality: 0..* To Cardinality: 0..1	
br_validation_target_application_moment_fk100	From columns: target_application_moment To Entity: application_action_type From cardinality: 0..* To Cardinality: 0..1	
br_validation_target_reg_moment_fk101	From columns: target_reg_moment To Entity: reg_status_type From cardinality: 0..* To Cardinality: 0..1	

Table: br_definition

Columns

Name	Type	Optional	Default	Description
br_id	varchar(100)	False		
active_from	date	False		
active_until	date	False	'infinity'	The date until this rule is active.
body	varchar(4000)	False		The definition of the rule. The interpretation of the definition is done from the rule engine in use.

Constraints

Name	Type	Explanation
br_definition_pkey	PRIMARY KEY	Combination of (br_id,active_from) is the primary key

Relationships (from)

Name	Information	Description
br_definition_br_id_fk52	From columns: br_id To Entity: br From cardinality: 0..* To Cardinality: 1	

Table: br_severity_type

These are the types of severity of the business rules within the context of there use.

Columns

Name	Type	Optional	Default	Description
code	varchar(20)	False		The code
display_value	varchar(250)	False		The value that will be displayed to the user
status	char(1)	False		The status of this code itself.
description	varchar(555)	True		Description

Constraints

Name	Type	Explanation
br_severity_type_display_value_unique	UNIQUE	Combination of (display_value) is unique
br_severity_type_pkey	PRIMARY KEY	Combination of (code) is the primary key

Relationships (to)

Name	Information	Description
br_validation_severity_code_fk53	From columns: severity_code From Entity: br_validation From cardinality: 0..* To Cardinality: 1	

Data

Nr	code	display_value	status	description
1	critical	Critical	c	
2	medium	Medium	c	
3	warning	Warning	c	

Table: br_validation_target_type

The potential targets of the validation rules.

Columns

Name	Type	Optional	Default	Description
code	varchar(20)	False		The code
display_value	varchar(250)	False		The value that will be displayed to the user
status	char(1)	False		The status of this code itself.
description	varchar(555)	True		Description

Constraints

Name	Type	Explanation
br_validation_target_type_display_value_unique	UNIQUE	Combination of (display_value) is unique
br_validation_target_type_pkey	PRIMARY KEY	Combination of (code) is the primary key

Relationships (to)

Name	Information	Description
br_validation_target_code_fk54	From columns: target_code From Entity: br_validation From cardinality: 0..* To Cardinality: 1	

Data

Nr	code	display_value	status	description
1	application	Application::::ITALIANO	c	The target of the validation is the application. It accepts one parameter {id} which is the application id.
2	service	Service::::ITALIANO	c	The target of the validation is the service. It accepts one parameter {id} which is the service id.
3	rrr	Right or Restriction::::ITALIANO	c	The target of the validation is the rrr. It accepts one parameter {id} which is the rrr id.
4	ba_unit	Administrative Unit::::ITALIANO	c	The target of the validation is the ba_unit. It accepts one parameter {id} which is the ba_unit id.
5	source	Source::::ITALIANO	c	The target of the validation is the source. It accepts one parameter {id} which is the source id.
6	cadastre_object	Cadastre Object::::ITALIANO	c	The target of the validation is the transaction related with the cadastre change. It accepts one parameter {id} which is the transaction id.

Table: approle

This table contains list of security roles, used to restrict access to the different parts of application, both on server and client side.

Columns

Name	Type	Optional	Default	Description
code	varchar(20)	False		The code
display_value	varchar(250)	False		The value that will be displayed to the user
status	char(1)	False		The status of this code itself.
description	varchar(555)	True		Description

Constraints

Name	Type	Explanation
approle_display_value_unique	UNIQUE	Combination of (display_value) is unique
approle_pkey	PRIMARY KEY	Combination of (code) is the primary key

Relationships (to)

Name	Information	Description
approle_appgroup_approle_code_fk97	From columns: approle_code From Entity: approle_appgroup From cardinality: 0..* To Cardinality: 1	

Data

Nr	code	display_value	status	description
1	DashbrdViewAssign	View Assigned Applications	c	View Assigned Applications in Dashboard
2	DashbrdViewUnassign	View Unassigned Applications	c	View Unassigned Applications in Dashboard
3	DashbrdViewOwn	View Own Applications	c	View Applications assigned to user in Dashboard
4	ApplnView	Search and View Applications	c	Search and view applications
5	ApplnCreate	Lodge new Applications	c	Lodge new Applications
6	ApplnStatus	Generate and View Status Report	c	Generate and View Status Report
7	ApplnAssignSelf	Assign Applications to Self	c	Able to assign (unassigned) applications to yourself

8	ApplnUnassignSelf	Unassign Applications to Self	c	Able to unassign (assigned) applications from yourself
9	ApplnAssignOthers	Assign Applications to Other Users	c	Able to assign (unassigned) applications to other users
10	ApplnUnassignOthers	Unassign Applications to Others	c	Able to unassign (assigned) applications to other users
11	StartService	Start Service	c	Start Service
12	CompleteService	Complete Service	c	Complete Service (prior to approval)
13	CancelService	Cancel Service	c	Cancel Service
14	RevertService	Revert Service	c	Revert previously Complete Service
15	ApplnRequisition	Requisition application and request	c	Request further information from applicant
16	ApplnResubmit	Resubmit Application	c	Resubmit (requisitioned) application
17	ApplnApprove	Approve Application	c	Approve Application
18	ApplnWithdraw	Withdraw Application	c	Applicant withdraws their application
19	ApplnReject	Reject Application	c	Land Office rejects an application
20	ApplnValidate	Validate Application	c	User manually runs validation rules for application
21	ApplnDispatch	Dispatch Application	c	Dispatch any documents to be returned to applicant and any certificates/reports/map prints requested by applicant
22	ApplnArchive	Archive Application	c	Paper Application File is stored in Land Office Archive
23	BaunitSave	Create or Modify BA Unit	c	Create or Modify BA Unit (Property)
24	BauunitrrrSave	Create or Modify Rights or Restrictions	c	Create or Modify Rights or Restrictions
25	BaunitParcelSave	Create or Modify (BA Unit) Parcels	c	Create or Modify (BA Unit) Parcels
26	BaunitNotatSave	Create or Modify (BA Unit) Notations	c	Create or Modify (BA Unit) Notations
27	BaunitCertificate	Generate and Print (BA Unit) Certificate	c	Generate and Print (BA Unit) Certificate
28	BaunitSearch	Search BA Unit	c	Search BA Unit

29	TransactionCommit	Approve (and Cancel) Transaction	c	Approve (and Cancel) Transaction
30	ViewMap	View Cadastral Map	c	View Cadastral Map
31	PrintMap	Print Map	c	Print Map
32	ParcelSave	Create or modify (Cadastre) Parcel	c	Create or modify (Cadastre) Parcel
33	PartySave	Create or modify Party	c	Create or modify Party
34	SourceSave	Create or modify Source	c	Create or modify Source
35	SourceSearch	Search Sources	c	Search sources
36	SourcePrint	Print Sources	c	Print Source
37	ReportGenerate	Generate and View Reports	c	Generate and View reports
38	ArchiveApps	Archive applications	c	Archive applications
39	ManageSecurity	Manage users, groups and roles	c	Manage users, groups and roles
40	ManageRefdata	Manage reference data	c	Manage reference data
41	ManageSettings	Manage system settings	c	Manage system settings
42	ApplnEdit	Application Edit	c	Allows editing of Applications
43	ManageBR	Manage business rules	c	Allows to manage business rules

Table: approle_appgroup

This many-to-many table contains groups, related to security roles. Allows to have multiple roles for one group.

Columns

Name	Type	Optional	Default	Description
approle_code	varchar(20)	False		
appgroup_id	varchar(40)	False		

Constraints

Name	Type	Explanation
approle_appgroup_pkey	PRIMARY KEY	Combination of (approle_code, appgroup_id) is the primary key

Relationships (from)

Name	Information	Description
approle_appgroup_approle_code_fk97	From columns: approle_code To Entity: approle From cardinality: 0..* To Cardinality: 1	
approle_appgroup_appgroup_id_fk98	From columns: appgroup_id To Entity: appgroup From cardinality: 0..* To Cardinality: 1	

Data

Nr	approle_code	appgroup_id
1	DashbrdViewAssign	super-group-id
2	DashbrdViewUnassign	super-group-id
3	DashbrdViewOwn	super-group-id
4	ApplnView	super-group-id
5	ApplnCreate	super-group-id
6	ApplnStatus	super-group-id
7	ApplnAssignSelf	super-group-id
8	ApplnUnassignSelf	super-group-id
9	ApplnAssignOthers	super-group-id
10	ApplnUnassignOthers	super-group-id

Table: appgroup

This table contains list of groups, which are used to group users with similar rights in the system.

Columns

Name	Type	Optional	Default	Description
id	varchar(40)	False		
name	varchar(300)	False		
description	varchar(500)	True		

Constraints

Name	Type	Explanation
appgroup_name_unique	UNIQUE	Combination of (name) is unique
appgroup_pkey	PRIMARY KEY	Combination of (id) is the primary key

Relationships (to)

Name	Information	Description
appuser_appgroup_appgroup_id_fk96	From columns: appgroup_id From Entity: appuser_appgroup From cardinality: 0..* To Cardinality: 1	
approle_appgroup_appgroup_id_fk98	From columns: appgroup_id From Entity: approle_appgroup From cardinality: 0..* To Cardinality: 1	

Data

Nr	id	name	description
1	super-group-id	Super group	This is a group of users that has right in anything. It is used in developement. In production must be removed.

Table: appuser_appgroup

This many-to-many table contains users, related to groups. Allows to have multiple groups for one user.

Columns

Name	Type	Optional	Default	Description
appuser_id	varchar(40)	False		
appgroup_id	varchar(40)	False		

Constraints

Name	Type	Explanation
appuser_appgroup_pkey	PRIMARY KEY	Combination of (appuser_id, appgroup_id) is the primary key

Relationships (from)

Name	Information	Description
appuser_appgroup_appuser_id_fk95	From columns: appuser_id To Entity: appuser From cardinality: 0..* To Cardinality: 1	
appuser_appgroup_appgroup_id_fk96	From columns: appgroup_id To Entity: appgroup From cardinality: 0..* To Cardinality: 1	

Data

Nr	appuser_id	appgroup_id
1	test-id	super-group-id

Table: query

It defines a query that can be executed by the search ejb.

Columns

Name	Type	Optional	Default	Description
name	varchar(100)	False		Unique identifier for the query
sql	varchar(4000)	False		Query definition
description	varchar(1000)	True		Technical description about the query.

Constraints

Name	Type	Explanation
query_pkey	PRIMARY KEY	Combination of (name) is the primary key

Relationships (to)

Name	Information	Description
query_field_query_name_fk102	From columns: query_name From Entity: query_field From cardinality: 0..* To Cardinality: 1	
config_map_layer_pojo_query_name_fk103	From columns: pojo_query_name From Entity: config_map_layer From cardinality: 1 To Cardinality: 0..1	
config_map_layer_pojo_query_name_for_select_fk104	From columns: pojo_query_name_for_select From Entity: config_map_layer From cardinality: 0..* To Cardinality: 0..1	
map_search_option_query_name_fk108	From columns: query_name From Entity: map_search_option From cardinality: 0..* To Cardinality: 1	

Data

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	sql	description
t.getParcels	select co.id, co.name_lastpart as label, st_asewkb(co.geom_polygon) as the_geom from cadastre.cadastre_object co where type_code= 'parcel' and status_code= 'current' and ST_Intersects(co.geom_polygon, ST_SetSRID(ST_MakeBox3D(ST_Point({minx}, {miny}),ST_Point({maxx}, {maxy})), {srid}))	
t.getParcelsPending	select co.id, co.name_lastpart as label, st_asewkb(co.geom_polygon) as the_geom from cadastre.cadastre_object co where type_code= 'parcel' and status_code= 'pending' and ST_Intersects(co.geom_polygon, ST_SetSRID(ST_MakeBox3D(ST_Point({minx}, {miny}),ST_Point({maxx}, {maxy})), {srid})) union select co.id, co.name_firstpart '/' co.name_lastpart as label, st_asewkb(co_t.geom_polygon) as the_geom from cadastre.cadastre_object co inner join cadastre.cadastre_object_target co_t on co.id = co_t.cadastre_object_id and co_t.geom_polygon is not null where ST_Intersects(co_t.geom_polygon, ST_SetSRID(ST_MakeBox3D(ST_Point({minx}, {miny}),ST_Point({maxx}, {maxy})), {srid})) and co_t.transaction_id in (select id from transaction.transaction where status_code not in ('approved'))	
t.getApplications	select id, nr as label, st_asewkb(location) as the_geom from application.application where ST_Intersects(location, ST_SetSRID(ST_MakeBox3D(ST_Point({minx}, {miny}),ST_Point({maxx}, {maxy})), {srid}))	

rmationtool.get_parcel	<pre> select co.id, co.name_firstpart '/' co.name_lastpart as parcel_nr, (select string_agg(ba.name_firstpart '/' ba.name_lastpart, ',') from administrative.ba_unit_contains_spatial_unit bas, administrative.ba_unit ba where spatial_unit_id= co.id and bas.ba_unit_id= ba.id) as ba_units, (SELECT spatial_value_area.size FROM cadastre.spatial_value_area WHERE spatial_value_area.type_code='officialArea' and spatial_value_area.spatial_unit_id = co.id) AS area_official_sqm, (SELECT spatial_value_area.size * 10.76 FROM cadastre.spatial_value_area WHERE spatial_value_area.type_code='officialArea' and spatial_value_area.spatial_unit_id = co.id) AS area_official_sqf, st_asewkb(co.geom_polygon) as the_geom from cadastre.cadastre_object co where type_code= 'parcel' and status_code= 'current' and ST_Intersects(co.geom_polygon, ST_SetSRID(ST_GeomFromWKB(#{wkb_geom}), #{srid})) </pre>	
rmationtool.get_parcel_pending	<pre> select co.id, co.name_firstpart '/' co.name_lastpart as parcel_nr, (SELECT spatial_value_area.size FROM cadastre.spatial_value_area WHERE spatial_value_area.type_code='officialArea' and spatial_value_area.spatial_unit_id = co.id) AS area_official_sqm, st_asewkb(co.geom_polygon) as the_geom from cadastre.cadastre_object co where type_code= 'parcel' and ((status_code= 'pending' and ST_Intersects(co.geom_polygon, ST_SetSRID(ST_GeomFromWKB(#{wkb_geom}), #{srid}))) or (co.id in (select cadastre_object_id from cadastre.cadastre_object_target co_t inner join transaction.transaction t on co_t.transaction_id=t.id where ST_Intersects(co_t.geom_polygon, ST_SetSRID(ST_GeomFromWKB(#{wkb_geom}), #{srid}))) and t.status_code not in ('approved')))) </pre>	
rmationtool.get_application	<pre> select id, nr, st_asewkb(location) as the_geom from application.application where ST_Intersects(location, ST_SetSRID(ST_GeomFromWKB(#{wkb_geom}), #{srid})) </pre>	
t.getParcelsHistoricWithCurrentBA	<pre> select co.id, co.name_firstpart '/' co.name_lastpart as label, st_asewkb(co.geom_polygon) as the_geom from cadastre.cadastre_object co inner join administrative.ba_unit_contains_spatial_unit ba_co on co.id = ba_co.spatial_unit_id inner join administrative.ba_unit ba_unit on ba_unit.id= ba_co.ba_unit_id where co.type_code='parcel' and co.status_code= 'historic' and ba_unit.status_code = 'current' and ST_Intersects(co.geom_polygon, ST_SetSRID(ST_MakeBox3D(ST_Point(#{minx}, #{miny}),ST_Point(#{maxx}, #{maxy})), #{srid})) </pre>	

informationtool.get_parcel_historic_current_ba	<pre>select co.id, co.name_firstpart '/' co.name_lastpart as parcel_nr, (select string_agg(ba.name_firstpart '/' ba.name_lastpart, ',') from administrative.ba_unit_contains_spatial_unit bas, administrative.ba_unit ba where spatial_unit_id= co.id and bas.ba_unit_id= ba.id) as ba_units, (SELECT spatial_value_area.size FROM cadastre.spatial_value_area WHERE spatial_value_area.type_code='officialArea' and spatial_value_area.spatial_unit_id = co.id) AS area_official_sqm, st_asewkb(co.geom_polygon) as the_geom from cadastre.cadastre_object co inner join administrative.ba_unit_contains_spatial_unit ba_co on co.id = ba_co.spatial_unit_id inner join administrative.ba_unit ba_unit on ba_unit.id= ba_co.ba_unit_id where co.type_code='parcel' and co.status_code= 'historic' and ba_unit.status_code = 'current' and ST_Intersects(co.geom_polygon, ST_SetSRID(ST_GeomFromWKB({wkb_geom}), #{srid}))</pre>	
cadastre_object_by_number	<pre>select id, name_firstpart '/' name_lastpart as label, st_asewkb(geom_polygon) as the_geom from cadastre.cadastre_object where status_code= 'current' and compare_strings(#{search_string}, name_firstpart '/' name_lastpart) limit 30</pre>	
cadastre_object_by_baunit	<pre>select distinct co.id, ba_unit.name_firstpart '/' ba_unit.name_lastpart ' > ' co.name_firstpart '/' co.name_lastpart as label, st_asewkb(geom_polygon) as the_geom from cadastre.cadastre_object co inner join administrative.ba_unit_contains_spatial_unit bas on co.id = bas.spatial_unit_id inner join administrative.ba_unit on ba_unit.id = bas.ba_unit_id where (co.status_code= 'current' or ba_unit.status_code= 'current') and compare_strings(#{search_string}, ba_unit.name_firstpart '/' ba_unit.name_lastpart) limit 30</pre>	
cadastre_object_by_baunit_owner	<pre>select distinct co.id, coalesce(party.name, '') ' ' coalesce(party.last_name, '') ' > ' co.name_firstpart '/' co.name_lastpart as label, st_asewkb(co.geom_polygon) as the_geom from cadastre.cadastre_object co inner join administrative.ba_unit_contains_spatial_unit bas on co.id = bas.spatial_unit_id inner join administrative.ba_unit on bas.ba_unit_id= ba_unit.id inner join administrative.rrr on (ba_unit.id = rrr.ba_unit_id and rrr.status_code = 'current' and rrr.type_code = 'ownership') inner join administrative.party_for_rrr pfr on rrr.id = pfr.rrr_id inner join party.party on pfr.party_id= pfr.party_id where (co.status_code= 'current' or ba_unit.status_code= 'current') and compare_strings(#{search_string}, coalesce(party.name, '') ' ' coalesce(party.last_name, '')) limit 30</pre>	

ch.cadastre_object_by_baunit_id	SELECT id, name_firstpart '/' name_lastpart as label, st_asewkb(geom_polygon) as the_geom FROM cadastre.cadastre_object WHERE transaction_id IN (SELECT cot.transaction_id FROM (administrative.ba_unit_contains_spatial_unit ba_su INNER JOIN cadastre.cadastre_object co ON ba_su.spatial_unit_id = co.id) INNER JOIN cadastre.cadastre_object_target cot ON co.id = cot.cadastre_object_id WHERE ba_su.ba_unit_id = {search_string}) AND (SELECT COUNT(1) FROM administrative.ba_unit_contains_spatial_unit WHERE spatial_unit_id = cadastre_object.id) = 0 AND status_code = 'current'	Query used b BaUnitBean.
t.getRegion	select sup.id, sup.code, sup.name, st_asewkb(sup.the_geom) as the_geom from cadastre.region as sup where ST_Intersects(sup.the_geom, ST_SetSRID(ST_MakeBox3D(ST_Point({minx}, {miny}),ST_Point({maxx}, {maxy})), {srid}))	
t.getDistrict	select sup.id, sup.num as label, st_asewkb(sup.the_geom) as the_geom from cadastre.district as sup where ST_Intersects(sup.the_geom, ST_SetSRID(ST_MakeBox3D(ST_Point({minx}, {miny}),ST_Point({maxx}, {maxy})), {srid}))	
t.getSection	select sup.id, sup.num as label, st_asewkb(sup.the_geom) as the_geom from cadastre.section as sup where ST_Intersects(sup.the_geom, ST_SetSRID(ST_MakeBox3D(ST_Point({minx}, {miny}),ST_Point({maxx}, {maxy})), {srid}))	
t.getBlock	select sup.id, sup.num as label, st_asewkb(sup.the_geom) as the_geom from cadastre.block as sup where ST_Intersects(sup.the_geom, ST_SetSRID(ST_MakeBox3D(ST_Point({minx}, {miny}),ST_Point({maxx}, {maxy})), {srid}))	
rmationtool.get_region	select sup.id, sup.code, sup.name, st_asewkb(sup.the_geom) as the_geom from cadastre.region as sup where ST_Intersects(sup.the_geom, ST_SetSRID(ST_GeomFromWKB({wkb_geom}), {srid}))	
rmationtool.get_district	select sup.id, sup.num as label, st_asewkb(sup.the_geom) as the_geom from cadastre.district as sup where ST_Intersects(sup.the_geom, ST_SetSRID(ST_GeomFromWKB({wkb_geom}), {srid}))	
rmationtool.get_section	select sup.id, sup.num as label, st_asewkb(sup.the_geom) as the_geom from cadastre.section as sup where ST_Intersects(sup.the_geom, ST_SetSRID(ST_GeomFromWKB({wkb_geom}), {srid}))	

rmationtool.get_block	select sup.id, sup.num as label, st_asewkb(sup.the_geom) as the_geom from cadastre.block as sup where ST_Intersects(sup.the_geom, ST_SetSRID(ST_GeomFromWKB(#{wkb_geom}), #{srid}))	
district	select id, id as label, st_asewkb(the_geom) as the_geom from cadastre.district where compare_strings(#{search_string}, id) limit 30	
section	select id, id coalesce(' ' locality ' ', '') as label, st_asewkb(the_geom) as the_geom from cadastre.section where compare_strings(#{search_string}, id coalesce(' ' locality ' ', '')) limit 30	
block	select id, id as label, st_asewkb(the_geom) as the_geom from cadastre.block where compare_strings(#{search_string}, id) limit 30	
t.getBuildings	select co.id, co.name_lastpart as label, st_asewkb(co.geom_polygon) as the_geom from cadastre.cadastre_object co where type_code= 'building' and status_code= 'current' and ST_Intersects(co.geom_polygon, ST_SetSRID(ST_MakeBox3D(ST_Point(#{minx}, #{miny}),ST_Point(#{maxx}, #{maxy})), #{srid}))	
rmationtool.get_building	select co.id, co.name_firstpart '/' co.name_lastpart as nr, (SELECT spatial_value_area.size FROM cadastre.spatial_value_area WHERE spatial_value_area.type_code='officialArea' and spatial_value_area.spatial_unit_id = co.id) AS area_official_sqm, st_asewkb(co.geom_polygon) as the_geom from cadastre.cadastre_object co where type_code= 'building' and status_code= 'current' and ST_Intersects(co.geom_polygon, ST_SetSRID(ST_GeomFromWKB(#{wkb_geom}), #{srid}))	
t.getAllodials	select co.id, co.name_lastpart as label, st_asewkb(co.geom_polygon) as the_geom from cadastre.cadastre_object co where type_code= 'allodial' and status_code= 'current' and ST_Intersects(co.geom_polygon, ST_SetSRID(ST_MakeBox3D(ST_Point(#{minx}, #{miny}),ST_Point(#{maxx}, #{maxy})), #{srid}))	
rmationtool.get_allodial	select co.id, co.name_firstpart '/' co.name_lastpart as nr, (SELECT spatial_value_area.size FROM cadastre.spatial_value_area WHERE spatial_value_area.type_code='officialArea' and spatial_value_area.spatial_unit_id = co.id) AS area_official_sqm, st_asewkb(co.geom_polygon) as the_geom from cadastre.cadastre_object co where type_code= 'allodial' and status_code= 'current' and ST_Intersects(co.geom_polygon, ST_SetSRID(ST_GeomFromWKB(#{wkb_geom}), #{srid}))	

Table: map_search_option

This table contains information about the options to search objects in the map. The list of options here will be used to configure the list of search by options in the Map Search Component.

Columns

Name	Type	Optional	Default	Description
code	varchar(20)	False		The unique code of the search option. This code is used programatically.
title	varchar(50)	False		The unique title that is visible to the user. It can be localizable.
query_name	varchar(100)	False		The query that will be used for retrieving the search results. The query requires only one parameter: search_string. So, it means that queries that are used here, should contain only one parameter with this name. These queries also should return only 3 fields: - id: Unique id of returned match - label: What will be displayed to the user - the_geom: the WKB form of the geometry
active	bool	False	true	If the search option is active or not
min_search_str_len	smallint	False	3	The minimum number of characters required for the search string.
zoom_in_buffer	numeric(20, 2)	False	50	The buffer distance to use when zooming the map to display the selected object. The units of this value are dependent on the coordinate system of the map (usually meters).
description	varchar(500)	True		A description about the option

Constraints

Name	Type	Explanation
map_search_option_title_unique	UNIQUE	Combination of (title) is unique
map_search_option_pkey	PRIMARY KEY	Combination of (code) is the primary key

Relationships (from)

Name	Information	Description
map_search_option_query_name_fk108	From columns: query_name To Entity: query From cardinality: 0..* To Cardinality: 1	

Data

Nr	code	title	query_name	active
----	------	-------	------------	--------

1	NUMBER	Parcel by number	map_search.cadastre_object_by_number	true
2	BAUNIT	Parcel by property number	map_search.cadastre_object_by_baunit	true
3	OWNER_OF_BAUNIT	Parcel by property owner	map_search.cadastre_object_by_baunit_owner	true
4	DISTRICT	District	map_search.district	true
5	SECTION	Section	map_search.section	true
6	BLOCK	Block	map_search.block	true

Nr	min_search_str_len	zoom_in_buffer	description
1	3	50	
2	3	50	
3	3	50	
4	2	50	
5	3	50	
6	3	50	

Table: query_field

It defines a field in the query. The field is returned by the select part. Not for all queries is needed to define the fields. It becomes important only for queries that will need to have fields that has to be localized.

Columns

Name	Type	Optional	Default	Description
query_name	varchar(100)	False		Query identifier
index_in_query	integer	False		
name	varchar(100)	False		The index of the field in the query. The index is zero based. It should not exceed the number of fields in the select part of the query.
display_value	varchar(200)	True		The title of the field to be used in the query. It can be localized.

Constraints

Name	Type	Explanation
query_field_display_value	UNIQUE	Combination of (query_name, display_value) is unique
query_field_name	UNIQUE	Combination of (query_name, name) is unique
query_field_pkey	PRIMARY KEY	Combination of (query_name, index_in_query) is the primary key

Relationships (from)

Name	Information	Description
query_field_query_name_fk102	From columns: query_name To Entity: query From cardinality: 0..* To Cardinality: 1	

Data

Nr	query_name	index_in_query
1	dynamic.informationtool.get_parcel	1
2	dynamic.informationtool.get_parcel	2
3	dynamic.informationtool.get_parcel	3
4	dynamic.informationtool.get_parcel	0
5	dynamic.informationtool.get_parcel	5
6	dynamic.informationtool.get_parcel_pending	0
7	dynamic.informationtool.get_parcel_pending	1
8	dynamic.informationtool.get_parcel_pending	2
9	dynamic.informationtool.get_parcel_pending	3
10	dynamic.informationtool.get_application	0
11	dynamic.informationtool.get_application	1
12	dynamic.informationtool.get_application	2

13	dynamic.informationtool.get_parcel_historic_current_ba	0
14	dynamic.informationtool.get_parcel_historic_current_ba	1
15	dynamic.informationtool.get_parcel_historic_current_ba	2
16	dynamic.informationtool.get_parcel_historic_current_ba	3
17	dynamic.informationtool.get_parcel_historic_current_ba	4
18	dynamic.informationtool.get_region	0
19	dynamic.informationtool.get_region	1
20	dynamic.informationtool.get_region	3
21	dynamic.informationtool.get_district	0
22	dynamic.informationtool.get_district	1
23	dynamic.informationtool.get_district	2
24	dynamic.informationtool.get_section	0
25	dynamic.informationtool.get_section	1
26	dynamic.informationtool.get_section	2
27	dynamic.informationtool.get_block	0
28	dynamic.informationtool.get_block	1
29	dynamic.informationtool.get_block	2
30	dynamic.informationtool.get_region	2
31	dynamic.informationtool.get_building	0
32	dynamic.informationtool.get_building	1
33	dynamic.informationtool.get_building	2
34	dynamic.informationtool.get_allodial	0
35	dynamic.informationtool.get_allodial	1
36	dynamic.informationtool.get_allodial	2
37	dynamic.informationtool.get_parcel	4

Nr	name	display_value
1	parcel_nr	Parcel number::::ITALIANO
2	ba_units	Properties::::ITALIANO
3	area_official_sqm	Official area (m2)::::ITALIANO
4	id	
5	the_geom	
6	id	
7	parcel_nr	Parcel number::::ITALIANO
8	area_official_sqm	Official area (m2)::::ITALIANO
9	the_geom	
10	id	
11	nr	Number::::Numero
12	the_geom	
13	id	
14	parcel_nr	Parcel number::::ITALIANO

15	ba_units	Properties::::ITALIANO
16	area_official_sqm	Official area (m2)::::ITALIANO
17	the_geom	
18	id	
19	code	Code
20	the_geom	
21	id	
22	label	District
23	the_geom	
24	id	
25	label	Section
26	the_geom	
27	id	
28	label	Block
29	the_geom	
30	name	Name
31	id	
32	nr	Number
33	the_geom	
34	id	
35	nr	Number
36	the_geom	
37	area_official_sqf	Official area (square feet)

View: user_roles

This view is used to retrieve the roles of a user.

View: br_current

It retrieves the active business rules.

View: br_report

This view is used in a report to document the business rules.

Function: setPassword

This function changes the password of the user.

Parameters

Name	Type	Direction	Description
usrName	varchar		The user name.
pass	varchar		Password. The password is given encrypted.

Function: get_setting

Gets the value of a setting.

Parameters

Name	Type	Direction	Description
setting_name	varchar		Setting name.

document

document.document**id****varchar(40)****nr****varchar(15)****U****extension****varchar(5)****body****blob****description****varchar(100)****N****Document functions****document_nr_seq()**

Table: document

An extension of the source table to contain the image files of scanned documents forming part of the land office archive including the paper documents presented or created through cadastre or registration processes

LADM Reference Object

FLOSS SOLA Extension

LADM Definition

Not Applicable

Columns

Name	Type	Optional	Default	Description
id	varchar(40)	False		LADM Definition - The identifier of the source document
nr	varchar(15)	False		SOLA Extension - A unique number to identify the document
extension	varchar(5)	False		SOLA Extension - The extension of the original file.
body	bytea	False		SOLA Extension - The content of the document
description	varchar(100)	True		SOLA Extension - A name to recognize the document

Constraints

Name	Type	Explanation
document_nr_unique	UNIQUE	Combination of (nr) is unique
document_pkey	PRIMARY KEY	Combination of (id) is the primary key

Sequence: document_nr_seq

Allocates numbers 1 to 9999 for document number.

transaction

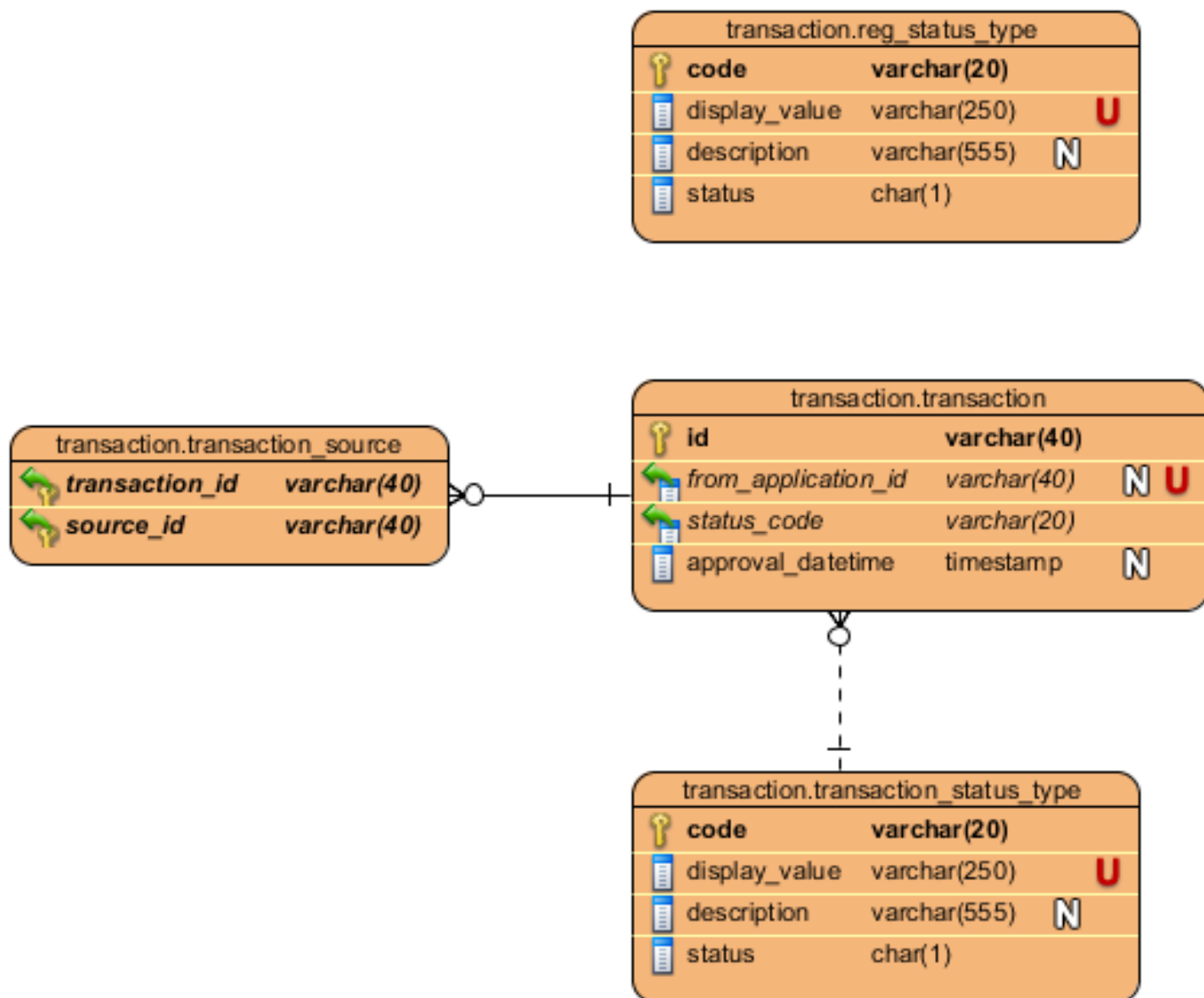


Table: reg_status_type

This table has the list of statuses that a registration about Rights/Restrictions/ Responsibilities/ Cadastral objects / Sources can have.

Columns

Name	Type	Optional	Default	Description
code	varchar(20)	False		The code of the status that an rrr can have
display_value	varchar(250)	False		The value that will be displayed to the user
description	varchar(555)	True		Description of the status
status	char(1)	False		The status of this code itself.

Constraints

Name	Type	Explanation
reg_status_type_display_value_unique	UNIQUE	Combination of (display_value) is unique
reg_status_type_pkey	PRIMARY KEY	Combination of (code) is the primary key

Relationships (to)

Name	Information	Description
rrr_status_code_fk59	From columns: status_code From Entity: rrr From cardinality: 0..* To Cardinality: 1	
ba_unit_status_code_fk60	From columns: status_code From Entity: ba_unit From cardinality: 0..* To Cardinality: 1	
cadastre_object_status_code_fk62	From columns: status_code From Entity: cadastre_object From cardinality: 0..* To Cardinality: 1	
notation_status_code_fk68	From columns: status_code From Entity: notation From cardinality: 0..* To Cardinality: 1	
source_status_code_fk86	From columns: status_code From Entity: source From cardinality: 0..* To Cardinality: 0..1	
br_validation_target_reg_moment_fk101	From columns: target_reg_moment From Entity: br_validation From cardinality: 0..* To Cardinality: 0..1	

Data

Nr	code	display_value	description	status
1	current	Current		c
2	pending	Pending		c
3	historic	Historic		c
4	previous	Previous		c

Table: transaction

Changes in the system come by transactions. A transaction is initiated (optionally) by a service. By introducing the concept of transaction it can be traced how the changes in the administrative schema came. Also by approving the transaction we can approve changes or by rejecting a transaction we can remove the pending changes that came with it and restore the previous state of the administrative schema.

Columns

Name	Type	Optional	Default	Description
id	varchar(40)	False		Meaningless id.
from_application_id	varchar(40)	True		Ghana extension: This was from_service_id. Because now the service is merged into the application, the transaction can be started from a application.
status_code	varchar(20)	False	'pending'	The status of the transaction.
approval_datetime	timestamp	True		The approval datetime of the transaction.

Constraints

Name	Type	Explanation
transaction_from_application_id_unique	UNIQUE	Combination of (from_application_id) is unique
transaction_pkey	PRIMARY KEY	Combination of (id) is the primary key

Relationships (from)

Name	Information	Description
transaction_status_code_fk77	From columns: status_code To Entity: transaction_status_type From cardinality: 0..* To Cardinality: 1	
transaction_from_application_id_fk132	From columns: from_application_id To Entity: application From cardinality: 0..* To Cardinality: 0..1	

Relationships (to)

Name	Information	Description
notation_transaction_id_fk74	From columns: transaction_id From Entity: notation From cardinality: 0..* To Cardinality: 1	
rrr_transaction_id_fk81	From columns: transaction_id From Entity: rrr From cardinality: 0..* To Cardinality: 1	

ba_unit_transaction_id_fk82	From columns: transaction_id From Entity: ba_unit From cardinality: 0..* To Cardinality: 0..1	
source_transaction_id_fk85	From columns: transaction_id From Entity: source From cardinality: 0..* To Cardinality: 0..1	
cadastre_object_transaction_id_fk88	From columns: transaction_id From Entity: cadastre_object From cardinality: 0..* To Cardinality: 1	
survey_point_transaction_id_fk91	From columns: transaction_id From Entity: survey_point From cardinality: 0..* To Cardinality: 1	
cadastre_object_target_transaction_id_fk92	From columns: transaction_id From Entity: cadastre_object_target From cardinality: 0..* To Cardinality: 1	
transaction_source_transaction_id_fk93	From columns: transaction_id From Entity: transaction_source From cardinality: 0..* To Cardinality: 1	
cadastre_object_node_target_transaction_id_fk95	From columns: transaction_id From Entity: cadastre_object_node_target From cardinality: 0..* To Cardinality: 1	
ba_unit_target_transaction_id_fk107	From columns: transaction_id From Entity: ba_unit_target From cardinality: 0..* To Cardinality: 1	

Table: transaction_status_type

This table has the list of statuses that a transaction can take. Potential values are current, pending, rejected.

Columns

Name	Type	Optional	Default	Description
code	varchar(20)	False		The code of the status that an rrr can have
display_value	varchar(250)	False		The value that will be displayed to the user
description	varchar(555)	True		Description of the status
status	char(1)	False		The status of this code itself.

Constraints

Name	Type	Explanation
transaction_status_type_display_value_unique	UNIQUE	Combination of (display_value) is unique
transaction_status_type_pkey	PRIMARY KEY	Combination of (code) is the primary key

Relationships (to)

Name	Information	Description
transaction_status_code_fk77	From columns: status_code From Entity: transaction From cardinality: 0..* To Cardinality: 1	

Data

Nr	code	display_value	description	status
1	approved	Approved::::Approvata		c
2	cancelled	CancelledApproved::::Cancellata		c
3	pending	Pending::::In Attesa		c
4	completed	Completed::::ITALIANO		c

Table: transaction_source

Columns

Name	Type	Optional	Default	Description
transaction_id	varchar(40)	False		
source_id	varchar(40)	False		

Constraints

Name	Type	Explanation
transaction_source_pkey	PRIMARY KEY	Combination of (transaction_id,source_id) is the primary key

Relationships (from)

Name	Information	Description
transaction_source_transaction_id_fk93	From columns: transaction_id To Entity: transaction From cardinality: 0..* To Cardinality: 1	
transaction_source_source_id_fk94	From columns: source_id To Entity: source From cardinality: 0..* To Cardinality: 1	

public

Public functions

```
f_for_trg_track_changes()
f_for_trg_track_history()
fn_triggerall(doenable : bit)
clean_db(schema_name : varchar)
compare_strings(string1 : varchar, string2 : varchar)
get_geometry_with_srid(geom : varbinary)
get_translation(mixed_value : varchar, language_code : varchar)
```

Function: f_for_trg_track_changes

This function is called from triggers in every table that has the columns to track changes. It also checks if the record has been already updated from another client application by checking the rowversion.

Function: f_for_trg_track_history

This function is called after a change is happening in a table to push the former values to the historic keeping table.

Function: fn_triggerall

This function can be used to disable all triggers in the database. **How to use** to call to disable all triggers in all schemas in db select fn_triggerall(false); to call to enable all triggers in all schemas in db select fn_triggerall(true);

Parameters

Name	Type	Direction	Description
doenable	bool		If true all triggers will be enabled.If false triggers will be disabled.

Function: `clean_db`

This function will delete any table and function in a schema that does not belong to the standard postgis template.

Parameters

Name	Type	Direction	Description
schema_name	varchar		The name of schema that will be cleaned.

Function: compare_strings

Special string compare function.

Parameters

Name	Type	Direction	Description
string1	varchar		
string2	varchar		

Function: `get_geometry_with_srid`

This function assigns a srid found in the settings to the geometry passed as parameter.

Parameters

Name	Type	Direction	Description
geom	geometry		

Function: get_translation

This function is used to translate the values that are supposed to be multilingual like the reference data values (display_value)

Parameters

Name	Type	Direction	Description
mixed_value	varchar		
language_code	varchar		