



Physical Data Diagram (Sprint 3)

Table dss_access_request_status

Idx	Name	Data Type
* Pk	access_request_status_cd	varchar(25)
*	access_request_status_nm	varchar(250)
Indexes		
Type	Name	On
Pk	dss_access_request_status_pk	access_request_status_cd

Table dss_email_message

Idx	Name	Data Type	Description
A message that is sent to one or more recipients via email			
* Pk	email_message_id	bigint GENERATED ALWAYS AS IDENTITY	Unique generated key
*	email_message_type	varchar(50)	Business term for the type or purpose of the message (e.g. Notice of Takedown, Takedown Request, Delisting Warning, Delisting Request, Access Granted Notification, Access Denied Notification)
*	message_delivery_dtm	timestamptz	A timestamp indicating when the message delivery was initiated
*	message_template_dsc	varchar(4000)	The full text or template for the message that is sent
*	is_host_contacted_externally	boolean	
*	is_submitter_cc_required	boolean	
	message_reason_id	bigint	
	lg_phone_no	varchar(30)	
	unreported_listing_no	varchar(25)	
	host_email_address_dsc	varchar(320)	E-mail address of a short term rental host (directly entered by the user as a message recipient)
	lg_email_address_dsc	varchar(320)	
	cc_email_address_dsc	varchar(4000)	E-mail address of a secondary message recipient (directly entered by the user)
	unreported_listing_url	varchar(4000)	User-provided URL for a short-term rental platform listing that is the subject of the message
	lg_str_bylaw_url	varchar(4000)	
*	initiating_user_identity_id	bigint	Foreign key
	affected_by_user_identity_id	bigint	Foreign key
	involved_in_organization_id	bigint	Foreign key

Indexes

Type	Name	On	Description
Pk	dss_email_message_pk	email_message_id	

Foreign Keys

Type	Name	On	Description
	dss_email_message_fk_initiated_by (initiating_user_identity_id) ref dss_user_identity (user_identity_id)		
	dss_email_message_fk_affecting (affected_by_user_identity_id) ref dss_user_identity (user_identity_id)		
	dss_email_message_fk_involving (involved_in_organization_id) ref dss_organization (organization_id)		
	dss_email_message_fk_communicating (email_message_type) ref dss_email_message_type (email_message_type)		
	dss_email_message_fk_justified_by (message_reason_id) ref dss_message_reason (message_reason_id)		

Table dss_email_message_type

Idx	Name	Data Type
* Pk	email_message_type	varchar(50)
*	email_message_type_nm	varchar(250)

Indexes

Type	Name	On
Pk	dss_email_message_type_pk	email_message_type

Table dss_message_reason

Idx	Name	Data Type	Description
A description of the justification for initiating a message			
* Pk	message_reason_id	bigint GENERATED ALWAYS AS IDENTITY	
*	email_message_type	varchar(50)	
*	message_reason_dsc	varchar(250)	A description of the justification for initiating a message

Indexes

Type	Name	On	Description
Pk	dss_message_reason_pk	message_reason_id	

Foreign Keys

Type	Name	On	Description
	dss_message_reason_fk_justifying (email_message_type) ref dss_email_message_type (email_message_type)		

Table dss_organization

Idx	Name	Data Type	Description
A private company or governing body that plays a role in short term rental reporting or enforcement			
* Pk	organization_id	bigint GENERATED ALWAYS AS IDENTITY	Unique generated key
*	organization_type	varchar(25)	a level of government or business category
*	organization_cd	varchar(25)	An immutable system code that identifies the organization (e.g. CEU, AIRBNB)
*	organization_nm	varchar(250)	A human-readable name that identifies the organization (e.g. Corporate Enforcement Unit, City of Victoria)
	local_government_geometry	geometry	the shape identifying the boundaries of a local government
	managing_organization_id	bigint	Self-referential hierarchical foreign key
*	upd_dtm	timestamptz	Trigger-updated timestamp of last change
	upd_user_guid	uuid	The globally unique identifier (assigned by the identity provider) for the most recent user to record a change

Indexes

Type	Name	On	Description
Pk	dss_organization_pk	organization_id	

Foreign Keys

Type	Name	On	Description
	dss_organization_fk_managed_by (managing_organization_id) ref dss_organization (organization_id)		
	dss_organization_fk_treated_as (organization_type) ref dss_organization_type (organization_type)		

Triggers

Name	Definition	Description
dss_organization_br_iu_tr		

CREATE TRIGGER dss_organization_br_iu_tr BEFORE INSERT OR UPDATE ON dss.dss_organization FOR EACH ROW EXECUTE FUNCTION dss.dss_update_audit_columns()

Table dss_organization_contact_person

Idx	Name	Data Type	Description
A person who has been identified as a notable contact for a particular organization			
* Pk	organization_contact_person_id	bigint GENERATED ALWAYS AS IDENTITY	Unique generated key
*	is_primary	boolean	Indicates whether the contact should receive all communications directed at the organization
*	given_nm	varchar(25)	A name given to a person so that they can easily be identified among their family members (in some cultures, this is often the first name)
*	family_nm	varchar(25)	A name that is often shared amongst members of the same family (commonly known as a surname within some cultures)
*	phone_no	varchar(30)	Phone number given for the contact by the organization (contains only digits)
*	email_address_dsc	varchar(320)	E-mail address given for the contact by the organization
*	contacted_through_organization_id	bigint	Foreign key
*	upd_dtm	timestamptz	Trigger-updated timestamp of last change
	upd_user_guid	uuid	The globally unique identifier (assigned by the identity provider) for the most recent user to record a change

Indexes

Type	Name	On	Description
Pk	dss_organization_contact_person_pk	organization_contact_person_id	

Foreign Keys

Type	Name	On	Description
	dss_organization_contact_person_fk_contacted_for (contacted_through_organization_id)	ref dss_organization (organization_id)	

Triggers

Name	Definition	Description
dss_organization_contact_person_br_iu_tr		

CREATE TRIGGER dss_organization_contact_person_br_iu_tr BEFORE INSERT OR UPDATE ON dss.dss_organization_contact_person FOR EACH ROW EXECUTE FUNCTION dss.dss_update_audit_columns()

Table dss_organization_type

Idx	Name	Data Type
* Pk	organization_type	varchar(25)
*	organization_type_nm	varchar(250)

Indexes

Type	Name	On
Pk	dss_organization_type_pk	organization_type

Table dss_physical_address

Idx	Name	Data Type	Description
A property address that includes any verifiable BC attributes			
* Pk	physical_address_id	bigint GENERATED ALWAYS AS IDENTITY	Unique generated key
*	original_address_txt	varchar(250)	The source-provided address of a short-term rental offering
	match_result_json	json	Full JSON result of the source address matching attempt
	match_address_txt	varchar(250)	The sanitized physical address that has been derived from the original
	match_score_amt	smallint	The relative score returned from the address matching attempt
	site_no	varchar(50)	The siteID returned by the address match
	block_no	varchar(50)	The blockID returned by the address match

Table dss_physical_address

	location_geometry	geometry	The computed location point of the matched address
	is_exempt	boolean	Indicates whether the address has been identified as exempt from Short Term Rental regulations
	containing_organization_id	bigint	Foreign key
*	upd_dtm	timestamptz	Trigger-updated timestamp of last change
	upd_user_guid	uuid	The globally unique identifier (assigned by the identity provider) for the most recent user to record a change

Indexes

Type	Name	On	Description
Pk	dss_physical_address_pk	physical_address_id	

Foreign Keys

Type	Name	On	Description
	dss_physical_address_fk_contained_in (containing_organization_id) ref dss_organization (organization_id)		

Triggers

Name	Definition	Description
dss_physical_address_br_iu_tr		

CREATE TRIGGER dss_physical_address_br_iu_tr BEFORE INSERT OR UPDATE ON dss.dss_physical_address FOR EACH ROW EXECUTE FUNCTION dss.dss_update_audit_columns()

Table dss_rental_listing

Idx	Name	Data Type	Description
A rental listing snapshot that is relevant to a specific month			
* Pk	rental_listing_id	bigint GENERATED ALWAYS AS IDENTITY	Unique generated key
*	platform_listing_no	varchar(25)	The platform issued identification number for the listing
	platform_listing_url	varchar(4000)	URL for the short-term rental platform listing
	business_licence_no	varchar(25)	The local government issued licence number that applies to the rental offering
	bc_registry_no	varchar(25)	The Short Term Registry issued permit number
	is_entire_unit	boolean	Indicates whether the entire dwelling unit is offered for rental (as opposed to a single bedroom)
	available_bedrooms_qty	smallint	The number of bedrooms in the dwelling unit that are available for short term rental
	nights_booked_qty	smallint	The number of nights that short term rental accommodation services were provided during the reporting period
	separate_reservations_qty	smallint	The number of separate reservations that were taken during the reporting period
*	including_rental_listing_report_id	bigint	Foreign key
*	offering_organization_id	bigint	Foreign key
	locating_physical_address_id	bigint	Foreign key
*	upd_dtm	timestamptz	Trigger-updated timestamp of last change
	upd_user_guid	uuid	The globally unique identifier (assigned by the identity provider) for the most recent user to record a change

Indexes

Type	Name	On	Description
Pk	dss_rental_listing_pk	rental_listing_id	

Foreign Keys

Type	Name	On	Description
	dss_rental_listing_fk_offered_by (offering_organization_id) ref dss_organization (organization_id)		

Table dss_rental_listing

```
dss_rental_listing_fk_included_in (
including_rental_listing_report_id ) ref
dss_rental_listing_report ( rental_listing_report_id )
```

```
dss_rental_listing_fk_located_at (
locating_physical_address_id ) ref dss_physical_address (
physical_address_id )
```

Triggers

Name	Definition	Description
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dss_rental_listing_br_iu_tr

```
CREATE TRIGGER dss_rental_listing_br_iu_tr BEFORE INSERT OR UPDATE ON dss.dss_rental_listing FOR EACH ROW EXECUTE
FUNCTION dss.dss_update_audit_columns()
```

Table dss_rental_listing_contact

Idx	Name	Data Type	Description
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A person who has been identified as a notable contact for a particular rental listing

* Pk	rental_listing_contact_id	bigint GENERATED ALWAYS AS IDENTITY	Unique generated key
*	is_property_owner	boolean	Indicates a person with the legal right to the unit being short-term rental
	listing_contact_nbr	smallint	Indicates which of the five possible supplier hosts is represented by this contact
	supplier_host_no	varchar(25)	The platform identifier for the supplier host
	full_nm	varchar(50)	The full name of the contact person as included in the listing
	phone_no	varchar(30)	Phone number given for the contact
	fax_no	varchar(30)	Facsimile numbrer given for the contact
	full_address_txt	varchar(250)	Mailing address given for the contact
	email_address_dsc	varchar(320)	E-mail address given for the contact
*	contacted_through_rental_listing_id	bigint	Foreign key
*	upd_dtm	timestampz	Trigger-updated timestamp of last change
	upd_user_guid	uuid	The globally unique identifier (assigned by the identity provider) for the most recent user to record a change

Indexes

Type	Name	On	Description
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Pk	dss_rental_listing_contact_pk	rental_listing_contact_id	
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Foreign Keys

Type	Name	On	Description
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```
dss_rental_listing_contact_fk_contacted_for (
contacted_through_rental_listing_id ) ref dss_rental_listing (
rental_listing_id )
```

Triggers

Name	Definition	Description
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dss_rental_listing_contact_br_iu_tr

```
CREATE TRIGGER dss_rental_listing_contact_br_iu_tr BEFORE INSERT OR UPDATE ON dss.dss_rental_listing_contact FOR EACH
ROW EXECUTE FUNCTION dss.dss_update_audit_columns()
```

Table dss_rental_listing_line

Idx	Name	Data Type	Description
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A rental listing report line that has been extracted from the source

* Pk	rental_listing_line_id	bigint GENERATED ALWAYS AS IDENTITY	Unique generated key
*	is_validation_failure	boolean	Indicates that there has been a validation problem that prevents successful ingestion of the rental listing

Table dss_rental_listing_line

*	is_system_failure	boolean	Indicates that a system fault has prevented complete ingestion of the rental listing
*	organization_cd	varchar(25)	An immutable system code that identifies the listing organization (e.g. AIRBNB)
*	platform_listing_no	varchar(25)	The platform issued identification number for the listing
*	source_line_txt	varchar(32000)	Full text of the report line that could not be interpreted
	error_txt	varchar(32000)	Freeform description of the problem found while attempting to interpret the report line
*	including_rental_listing_report_id	bigint	Foreign key

Indexes

Type	Name	On	Description
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Pk	dss_rental_listing_line_pk	rental_listing_line_id	
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Foreign Keys

Type	Name	On	Description
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dss_rental_listing_line_fk_included_in (including_rental_listing_report_id) ref
dss_rental_listing_report (rental_listing_report_id)

Table dss_rental_listing_report

Idx	Name	Data Type	Description
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A delivery of rental listing information that is relevant to a specific month

* Pk	rental_listing_report_id	bigint GENERATED ALWAYS AS IDENTITY	Unique generated key
*	is_processed	boolean	
*	report_period_ym	date	The month to which the listing information is relevant (always set to the first day of the month)
	source_bin	bytea	The binary image of the information that was uploaded
*	providing_organization_id	bigint	Foreign key
*	upd_dtm	timestamptz	Trigger-updated timestamp of last change
	upd_user_guid	uuid	The globally unique identifier (assigned by the identity provider) for the most recent user to record a change

Indexes

Type	Name	On	Description
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Pk	dss_rental_listing_report_pk	rental_listing_report_id	
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Foreign Keys

Type	Name	On	Description
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dss_rental_listing_report_fk_provided_by (providing_organization_id) ref dss_organization (organization_id)

Triggers

Name	Definition	Description
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dss_rental_listing_report_br_iu_tr

CREATE TRIGGER dss_rental_listing_report_br_iu_tr BEFORE INSERT OR UPDATE ON dss.dss_rental_listing_report FOR EACH ROW EXECUTE FUNCTION dss.dss_update_audit_columns()

Table dss_user_identity

Idx	Name	Data Type	Description
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An externally defined domain directory object representing a potential application user or group

* Pk	user_identity_id	bigint GENERATED ALWAYS AS IDENTITY	Unique generated key
*	user_guid	uuid	An immutable unique identifier assigned by the identity provider
*	display_nm	varchar(250)	A human-readable full name that is assigned by the identity provider (this may include a preferred name and/or business unit name)

Table dss_user_identity

*	identity_provider_nm	varchar(25)	A directory or domain that authenticates system users to allow access to the application or its API (e.g. idir, bceidbusiness)
*	is_enabled	boolean	Indicates whether access is currently permitted using this identity
*	access_request_status_cd	varchar(25)	The current status of the most recent access request made by the user (restricted to Requested, Approved, or Denied)
	access_request_dtm	timestamptz	A timestamp indicating when the most recent access request was made by the user
	access_request_justification_txt	varchar(250)	The most recent user-provided reason for requesting application access
	given_nm	varchar(25)	A name given to a person so that they can easily be identified among their family members (in some cultures, this is often the first name)
	family_nm	varchar(25)	A name that is often shared amongst members of the same family (commonly known as a surname within some cultures)
	email_address_dsc	varchar(320)	E-mail address associated with the user by the identity provider
	business_nm	varchar(250)	A human-readable organization name that is associated with the user by the identity provider
	terms_acceptance_dtm	timestamptz	A timestamp indicating when the user most recently accepted the published Terms and Conditions of application access
	represented_by_organization_id	bigint	Foreign key
*	upd_dtm	timestamptz	Trigger-updated timestamp of last change
	upd_user_guid	uuid	The globally unique identifier (assigned by the identity provider) for the most recent user to record a change

Indexes

Type	Name	On	Description
Pk	dss_user_identity_pk	user_identity_id	

Foreign Keys

Type	Name	On	Description
	dss_user_identity_fk_representing (represented_by_organization_id) ref dss_organization (organization_id)		
	dss_user_identity_fk_given (access_request_status_cd) ref dss_access_request_status (access_request_status_cd)		

Triggers

Name	Definition	Description
dss_user_identity_br_iu_tr		

CREATE TRIGGER dss_user_identity_br_iu_tr BEFORE INSERT OR UPDATE ON dss.dss_user_identity FOR EACH ROW EXECUTE FUNCTION dss.dss_update_audit_columns()

Table dss_user_privilege

Idx	Name	Data Type	Description
			A granular access right or privilege within the application that may be granted to a role
* Pk	user_privilege_cd	varchar(25)	The immutable system code that identifies the privilege
*	user_privilege_nm	varchar(250)	The human-readable name that is given for the role

Indexes

Type	Name	On	Description
Pk	dss_user_privilege_pk	user_privilege_cd	

Table dss_user_role

Idx	Name	Data Type	Description
			A set of access rights and privileges within the application that may be granted to users
* Pk	user_role_cd	varchar(25)	The immutable system code that identifies the role
*	user_role_nm	varchar(250)	The human-readable name that is given for the role

Indexes

Table dss_user_role

Type	Name	On	Description
Pk	dss_user_role_pk	user_role_cd	

Table dss_user_role_assignment

Idx	Name	Data Type	Description
The association of a grantee credential to a role for the purpose of conveying application privileges			

* Pk	user_identity_id	bigint	Foreign key
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* Pk	user_role_cd	varchar(25)	Foreign key
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Indexes

Type	Name	On	Description
Pk	dss_user_role_assignment_pk	user_identity_id, user_role_cd	

Foreign Keys

Type	Name	On	Description
	dss_user_role_assignment_fk_granted (user_role_cd) ref dss_user_role (user_role_cd)		
	dss_user_role_assignment_fk_granted_to (user_identity_id) ref dss_user_identity (user_identity_id)		

Table dss_user_role_privilege

Idx	Name	Data Type	Description
The association of a granular application privilege to a role			
* Pk	user_privilege_cd	varchar(25)	Foreign key
* Pk	user_role_cd	varchar(25)	Foreign key

Indexes

Type	Name	On	Description
Pk	dss_user_role_privilege_pk	user_privilege_cd, user_role_cd	

Foreign Keys

Type	Name	On	Description
	dss_user_role_privilege_fk_conferred_by (user_role_cd) ref dss_user_role (user_role_cd)		
	dss_user_role_privilege_fk_conferring (user_privilege_cd) ref dss_user_privilege (user_privilege_cd)		

Schema dss

Functions

dss_update_audit_columns