PER Auskunft

Data model view

Classification public Version 1.0

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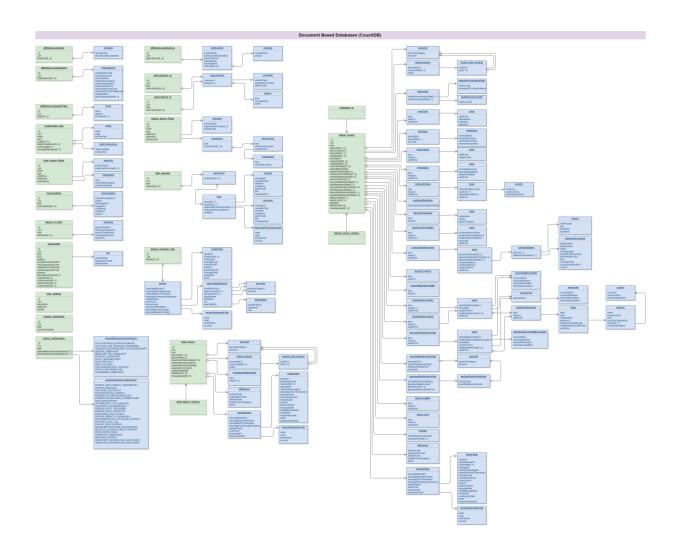


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1. PER Personenregister Data model

1.1 Document Based Database (CouchDB)



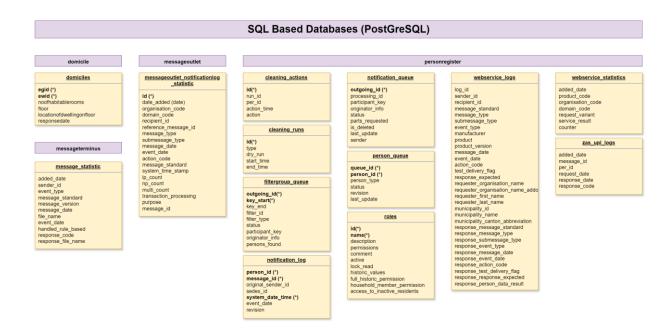
1.1.1 Description of the tables

name of the table	description
affiliations-domains	Contains all domains from an instance. Domains are associated with participants and describe the type of data that the participant is interested in (i.e. tax data, residence data, etc.)
affiliations-organisations	Contains all organizations from one instance that have access to PER. An organization is an abstraction of the geographical political entity.

name of the table	description
affiliations- messageTypes	Contains the compatible message standards from eCH that PER Personenregister can process.
configurable_rules	Contains rules that are used to automatically classify responses according to their response codes. Mainly used for triage of messages that resulted in errors.
legal_person_filters	Contains filters for legal persons. Configurable in AdminGUI. Filters are used to determine which participants need to be automatically notified if person data has changed.
municipalities	Contains every active and historicized municipality from Switzerland.
places_of_origin	Contains every municipality in Switzerland.
participants	Every action in the GUI «PER Auskunft» and the web service, as well as processed messages must be associated to a participant, so it can be checked for permissions and logged accordingly. The known participants are stored here.
relay_settings	Settings for the relay service (relaying original messages to external consumers).
runtime_parameters	Runtime configuration parameters for Message Terminus (i.e. pause mode).
output_configuration	Contains configuration if an action is needed after output.
affiliations-applications	Contains all applications from an instance. Applications are associated with participants and describe the software (and to a certain degree, also the protocol) that the participant is using.
subscriptions_np	Contains all active and inactive subscriptions for natural persons. A subscription is an association of a participant with a person. Participants with subscriptions will get notifications, even if no filter selects them.
subscriptions_lp	Contains all active and inactive subscriptions for legal persons. A subscription is an association of a participant with a person. Participants with subscriptions will get notifications, even if no filter selects them.
natural_person_filters	Contains all filters for natural persons. Configurable in AdminGUI. Filters are used to determine which participants need to be automatically notified if person data has changed.
data_requests	Personenregister can request data about a person from a participant. These requests are stored so they can be monitored for data received.

name of the table	description
general_message_logs	Each person in PER has its own message log. Sometimes messages cannot be associated to a (single) person. In this case the log is written into the general message log.
legal_person	Contains legal person data. The data is versioned and historized.
legal_person_revision	The revisions of the legal_person table. Whenever a person is modified, the previous revision is kept in this database.
multiplets_np	Contains multiple checks for natural persons. Persons are checked for duplicates (and multiplicaptives) and the results are stored here.
natural_person	Contains natural person data. The data is versioned and historized.
natural_person_revision	The revisions of the natural_person table. Whenever a person is modified, the previous revision is kept in this database.

1.2 SQL-based Databases (PostgreSQL)



1.2.1 Description of the tables

name of the table	description
domiciles	Information about domiciles (flats per building, orientation of the flat, entrances into the

name of the table	description
	buildings). Used to show information to the police and fire fighters.
message_statistic	Statistical data about message processing (messages per participant, per organization, etc.). Only viewable in SupportGUI.
messageoutlet_notificationlog_statistic	Notification log of all messageoutlet messages.
cleaning_actions	PER can automatically "clean" persons and the results are kept in this database.
cleaning_runs	Processing and configuration data for the cleaning runs.
filtergroup_queue	Processing data for notifications manually triggered with a filter (go through all persons and notify every participant that passes the filter).
notification_queueperson_queue	Processing data for notifications through regular message processing.
person_queue	Processing data for notifications through regular message processing.
roles	Roles are a groups of permissions that are assigned to participants and users. The permissions are used to enforce authorized access only.
webservice_logs	Keeps a log of all actions through the web service interface.
webservice_statistics	Statistical data about web service access (requests per participant, etc.)
zas_upi_logs	Contains logs of the ZAS UPI Service. When a message is processed, sometimes an external service is queried to resolve the VN number of a person. These accesses are logged here.