

Database Schema

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-- Provenance Framework v1.0 – SQLite Schema
-- Generic domain architecture document management
-- with ADR tracking and amendment discipline
-- =====
-- NUMBERING SCHEMES
-- =====
-- ADR numbering: ADR-### (global sequential)
-- Example: ADR-001, ADR-002, ADR-003, ...
-- Auto-generated at insertion time
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-- Amendment numbering: A-### (global sequential)
-- Example: A-001, A-002, A-003, ...
-- Auto-generated at insertion time
--
-- Document version numbering: customer-defined
-- Examples: v1.0, v1.1, Release1, 2026-Q3
-- No enforcement; customer chooses their scheme
-- =====
-- CORE TABLES
-- =====
CREATE TABLE identities (
identity_id TEXT PRIMARY KEY,
name TEXT NOT NULL,
email TEXT,
role TEXT,
created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP
);
CREATE TABLE documents (
document_id TEXT PRIMARY KEY,
document_name TEXT NOT NULL,
created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
current_version_id TEXT
);
CREATE TABLE document_versions (
version_id TEXT PRIMARY KEY,
document_id TEXT NOT NULL,
version_number TEXT NOT NULL,
created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
published_at TIMESTAMP,
published_by TEXT,
sealed_canonical_at TIMESTAMP,
sealed_by TEXT,
FOREIGN KEY (document_id) REFERENCES documents(document_id),
FOREIGN KEY (published_by) REFERENCES identities(identity_id),
FOREIGN KEY (sealed_by) REFERENCES identities(identity_id),
UNIQUE(document_id, version_number)
);
CREATE TABLE releases (
release_id TEXT PRIMARY KEY,
release_number TEXT NOT NULL,
document_version_id TEXT NOT NULL,
planned_date DATE,
published_at TIMESTAMP,
created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
FOREIGN KEY (document_version_id) REFERENCES document_versions(version_id),
UNIQUE(release_number)
);
CREATE TABLE architectural_decisions (
adr_id TEXT PRIMARY KEY,
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adr_number TEXT NOT NULL UNIQUE,
release_id TEXT,
title TEXT NOT NULL,
status TEXT NOT NULL DEFAULT 'PROPOSED',
context TEXT,
decision TEXT,
consequences TEXT,
proposed_by TEXT NOT NULL,
proposed_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
accepted_by TEXT,
accepted_at TIMESTAMP,
created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
FOREIGN KEY (release_id) REFERENCES releases(release_id),
FOREIGN KEY (proposed_by) REFERENCES identities(identity_id),
FOREIGN KEY (accepted_by) REFERENCES identities(identity_id),
CHECK (status IN ('PROPOSED', 'ACCEPTED', 'SUPERSEDED', 'DEPRECATED'))
);
CREATE TABLE amendments (
amendment_id TEXT PRIMARY KEY,
amendment_number TEXT NOT NULL UNIQUE,
document_id TEXT NOT NULL,
related_adr_id TEXT,
submitted_by TEXT NOT NULL,
submitted_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
change_summary TEXT NOT NULL,
change_rationale TEXT,
approval_status TEXT NOT NULL DEFAULT 'DRAFT',
approved_by TEXT,
approved_at TIMESTAMP,
from_version_id TEXT NOT NULL,
to_version_id TEXT,
created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
FOREIGN KEY (document_id) REFERENCES documents(document_id),
FOREIGN KEY (related_adr_id) REFERENCES architectural_decisions(adr_id),
FOREIGN KEY (submitted_by) REFERENCES identities(identity_id),
FOREIGN KEY (approved_by) REFERENCES identities(identity_id),
FOREIGN KEY (from_version_id) REFERENCES document_versions(version_id),
FOREIGN KEY (to_version_id) REFERENCES document_versions(version_id),
CHECK (approval_status IN ('DRAFT', 'SUBMITTED', 'APPROVED', 'REJECTED'))
);
CREATE TABLE amendment_content (
content_id TEXT PRIMARY KEY,
amendment_id TEXT NOT NULL,
location_in_document TEXT,
original_text TEXT,
new_text TEXT,
created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
FOREIGN KEY (amendment_id) REFERENCES amendments(amendment_id)
);
-- =====
-- INDICES
-- =====
CREATE INDEX idx_documents_current_version ON documents(current_version_id);
CREATE INDEX idx_document_versions_document ON document_versions(document_id);
CREATE INDEX idx_amendments_document ON amendments(document_id);
CREATE INDEX idx_amendments_adr ON amendments(related_adr_id);
CREATE INDEX idx_amendments_status ON amendments(approval_status);
CREATE INDEX idx_adr_release ON architectural_decisions(release_id);
CREATE INDEX idx_adr_status ON architectural_decisions(status);
CREATE INDEX idx_amendment_content_amendment ON amendment_content(amendment_id);

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