DMS – DB-0 + DB-1 – Core Database Schema (SQL Server)

Audience: AI Studio
Version: v1.0
Status: Authoritative – For Generation
Database: SQL Server (Same DB as Platform)
Scope: DMS Core Persistence Layer

DB-0: Context & Integration Assumptions

1 DMS tables live in the SAME database as the existing platform tables
2 Authentication, Authorization, RBAC, Users, Tenants are owned by the platform
3 DMS references UserId and TenantId only; it does NOT define identity tables
4 All DMS tables MUST include TenantId for isolation
5 NO foreign keys to User table unless explicitly allowed by platform policy

DB-1: Core Schema Objectives

Generate a clean, complete, and readable SQL Server schema for the DMS that represents the domain truth defined in Phases 0–2. This phase defines structure only; no enforcement tricks.

Core Tables to Generate

1 DMS_Document
2 DMS_DocumentVersion
3 DMS_DocumentType
4 DMS_AuditEvent

AI Studio Generation Prompt

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You are an Enterprise SQL Server Database Architect.

Generate SQL Server DDL for a Document Management System (DMS)
that lives in the SAME database as an existing SaaS platform.

NAMING CONVENTION:
- Prefix all tables with DMS_
- Do NOT create User or Tenant tables

TABLES:

1. DMS_Document
    - DocumentId (PK)
    - TenantId (NOT NULL)
    - DocumentTypeId (FK)
    - OwnerUserId
    - CurrentApprovedVersionId (NULLABLE)
    - IsDeleted (BIT, default 0)
    - CreatedAt, CreatedByUserId

2. DMS_DocumentVersion
    - DocumentVersionId (PK)
    - TenantId (NOT NULL)
    - DocumentId (FK)
    - VersionNumber (INT, NULL)
    - BaseVersionId (NULLABLE, self-FK)
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    - LifecycleStatus (DRAFT, IN_REVIEW, APPROVED, ARCHIVED)
    - ValidityStatus (PENDING, VALID, EXPIRED, SUPERSEDED)
    - MetadataJson (NVARCHAR(MAX))
    - BlobReference (NVARCHAR(512))
    - CreatedAt, CreatedByUserId
    - ApprovedAt, ApprovedByUserId
    - UpdatedAt

3. DMS_DocumentType
    - DocumentTypeId (PK)
    - TenantId (NULL = system type)
    - Code (unique per TenantId)
    - Name
    - MetadataSchemaJson
    - RequiresApproval (BIT)
    - TracksValidity (BIT)
    - ReviewCycleDays (INT, NULL)
    - CreatedAt

4. DMS_AuditEvent
    - AuditEventId (PK)
    - TenantId (NOT NULL)
    - EntityType (DOCUMENT, VERSION)
    - EntityId
    - Action
    - ActorUserId
    - DetailsJson
    - CreatedAt

RULES:
- NO cascade deletes
- Soft delete only via DMS_Document.IsDeleted
- Include basic indexes for FK lookups
- Include comments explaining each table
- Do NOT add triggers or CHECK constraints in this phase

OUTPUT:
- SQL Server compatible CREATE TABLE statements
- FK constraints (Tenant-safe)
- Indexes
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Acceptance Criteria

Schema must be readable, minimal, and aligned with DMS architecture. No enforcement logic is allowed in DB-1. Enforcement will be added in DB-2.