

Schema Comparison Report

Production (new_schema) vs Local (schema.prisma)

Generated: December 31, 2025

1. Overview

Metric	Local Prisma	Production
Lines	1,573	1,141
Tables/Models	~75	~85
Format	Prisma DSL	PostgreSQL DDL

2. Major Structural Differences

2.1 Multi-Tenancy & Organization

Aspect	Local (Prisma)	Production
Structure	Tenant -> Branch (flat)	org -> organization_node (tree)
Hierarchy	2 levels max	Unlimited with parent_id
Path	None	ltree for fast queries

2.2 Content/Product Model

Aspect	Local (Prisma)	Production
Base Entity	Course	products (generic)
Types	CourseUnit.type enum	product_types table
Books	Not supported	book_reading_details, book_sections
Videos	Part of unit config	Dedicated videos, book_videos

2.3 User & Permissions

Aspect	Local (Prisma)	Production
Roles	RoleKey enum (4)	auth_role table (dynamic)
Permissions	JSON in UserType	auth_permission tables
Scope	Global	Per organization node

2.4 Skills & Knowledge

Aspect	Local (Prisma)	Production
Model	Flat Skill	track->competency->skill->k_atom
Objectives	Not present	objectives + bloom_level
Misconceptions	Not present	misconceptions tables

2.5 Quizzes & Assessments

Aspect	Local (Prisma)	Production
Quiz	Test model	quizzes with quiz_type
Questions	Single table	questions + question_type + difficulty
Answers	JSON in options	answer_choices table

2.6 Internationalization

Aspect	Local (Prisma)	Production
Approach	Single language field	Dedicated *_languages tables
Coverage	Limited	15+ translation tables

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3. Tables Only in Production (NOT in Local)

Core Content

- products
- product_types
- product_languages
- book_reading_details
- book_sections
- book_videos
- paragraphs

Knowledge Graph

- knowledge_atom
- competency
- specific_skill
- track
- specific_skill_level_description

Organization

- org
- organization_node
- node_types
- product_node

XP & Gamification

- xp_types
- xp_user_logs
- xp_levels_lookup
- user_xp_summary

AI Features

- ai_coach_sessions
- chats
- messages

Other Production Tables

- custom_pathways
- user_video_progress
- instructor_ratings
- misconceptions
- objectives
- user_waiting_list
- user_education
- user_experiences
- companies
- certificates

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4. Tables Only in Local (NOT in Production)

Multi-Tenancy

- Tenant
- Branch
- PortalFeatureFlags

Course Structure

- CourseVersion
- CourseFile
- EnrollmentRequest
- UnitAsset

Learning Paths

- LearningPathSection
- LearningPathEnrollment

Gamification

- GamificationSettings
- PointsLedger
- Badge
- Level
- Reward

Notifications

- Notification
- NotificationHistory
- NotificationQueue
- Automation
- AutomationLog

Discussions & Messaging

- Discussion
- DiscussionComment
- MessageThread
- Message
- MessageRecipient

SCORM/xAPI

- SCORMData
- LRSStatement

Portal & Reports

- Homepage
- HomepageSection
- Report
- ScheduledReport
- AnalyticsDashboard
- ReportExport

Integrations & Admin

- Integration

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- APIKey
- SSOConfig
- ImpersonationSession
- ImportJob

Tests & Grading

- Test
- Question
- QuestionPool
- TestAttempt
- ILTSession
- ILTAttendance

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5. Key Recommendations

To Align Local with Production:

- Replace Tenant/Branch with org + organization_node hierarchy
- Add Products Layer - Abstract Course into products + course_details
- Implement i18n - Create *_languages tables for translations
- Add Knowledge Graph: track -> competency -> specific_skill -> k_atom
- Add XP System: xp_types, xp_user_logs, xp_levels_lookup
- Add AI Features: ai_coach_sessions, chats, messages
- Restructure RBAC - Node-scoped permissions

To Enhance Production with Local Features:

- Add Versioning - Course snapshots like CourseVersion
- Add Notifications - Event-driven notification system
- Add Discussions - Forum-style discussions
- Add Reporting - Custom reports and dashboards
- Add SCORM/xAPI - Standards-based content tracking
- Add Integrations - SSO, API keys, webhooks

6. Entity Relationship Summary

Production Schema Flow:

```
org
-> organization_node (tree)
  -> users (via user_role_permission)
  -> products
    -> course_details -> chapters -> videos
    -> book_reading_details -> book_sections
    -> book_video_details -> book_videos
```

Local Schema Flow:

```
Tenant
-> Branch
  -> User (via UserRole)
  -> Course
    -> CourseSection
      -> CourseUnit (all content types)
```