# GenAl-Ready Semantic Layer Checklist

A simple yes/no assessment to evaluate your semantic layer readiness for GenAl.

Instructions: Check each box that applies to your current semantic layer. Count your total checkmarks to see your GenAl readiness score.

### 1. Semantic Modeling & Definitions



Business metrics have consistent definitions across all systems

Dimensions and hierarchies are standardized (time, geography, products, etc.)

Business rules and calculations are centrally defined

Metadata includes business context, not just technical definitions

### 2. Query & Integration

GenAl applications need programmatic access to your semantic models.

APIs available for programmatic access to semantic models

Standard SQL access to semantic models

Semantic models can be exported in standard formats (JSON Schema, OpenAPI)

Integration with existing GenAl tools and frameworks

# 3. Performance & Optimization

GenAl applications generate high query volumes that need fast, cost-effective responses.

Automated creation and management of aggregates/cubes

Query result caching and reuse capabilities

Cost-aware query optimization and execution planning

Horizontal scaling to handle high concurrent query volumes

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### 4. Security & Governance

GenAl applications need enterprise-grade security and data governance.

Role-based access controls for semantic models

Row and column-level security controls

Complete audit logs and query lineage tracking

Data masking and PII protection capabilities

### 5. GenAl-Specific Features

Advanced capabilities that directly enable GenAl applications to work safely with your data.

Natural language to SQL query translation

Semantic model ontology APIs for LLM consumption

Query guardrails and safety checks for GenAl queries

Quality monitoring and hallucination detection

## 6. Developer & Operations Experience

Your team needs modern development workflows and operational visibility.

Version control and CI/CD workflows for semantic models

Infrastructure-as-Code deployment capabilities

Comprehensive observability: performance metrics, query costs, usage analytics

Migration tools for existing semantic models (LookML, dbt, etc.)

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### Your GenAl Readiness Score

Count your checkmarks and find your readiness level:

Score	Status	What This Means
20-24	GenAl Ready	You have a strong foundation for scaling GenAl initiatives
16-19	Mostly Ready	Address a few key gaps before enterprise GenAl deployment
10-15	Needs Work	Significant investment required for GenAl success
Below 10	Not Ready	Focus on foundational semantic layer capabilities first

### What to Do Next

Based on your score:

- Review the unchecked items these are your priority gaps
- Focus first on Semantic Modeling & Definitions (Section 1) and Security & Governance (Section 4)
- Evaluate whether your current platform can be enhanced or if you need a new solution
- Create an implementation timeline that aligns with your GenAl deployment goals

# Need help getting GenAl-ready? AtScale's Universal Semantic Layer is designed specifically for GenAl workloads.

### Schedule a Demo

See exactly how AtScale's semantic layer would work with your retail data and tools

### **Download the Buyers Guide**

Get the detailed playbook for successful retail semantic layer deployment

AtScale's Universal Semantic Layer empowers organizations to deliver trusted, consistent insights for every user—from dashboards to Al agents.

By aligning business definitions across tools and teams, AtScale eliminates conflicting metrics, improves GenAl accuracy, and enables Al agents to act on governed, reliable data. Built on open semantics, AtScale ensures interoperability across platforms—so you can scale without vendor lock-in. The result: faster decisions, greater trust, and a single source of truth that works across your entire data ecosystem.

