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Supercharging Power BI with Kyvos Semantic Layer

8x
faster analytics

10x
data scale at any concurrency

>60%
lower compute utilization

With Kyvos semantic layer connected to Power BI, enterprises can achieve lightning-fast, scalable analytics and multidimensional insights on billions of rows while dramatically lowering compute and query costs.

What You Gain with Kyvos + Power BI

Single Source of Semantic Truth

Unified, governed semantic layer delivering consistent metrics and trusted insights.

Speed & Scale

Smart aggregates, self-tuning caching and intelligent query optimization for instant analyti csat petabyte scale.

Cloud Savings

Save over 50% through optimized compute usage and reduced query pushdowns to expensive data sources.

Live Connectivity

Certified named connectors to access Power BI dashboards and reports on Kyvos without data extracts or imports.

High Concurrency

Elastic, distributed architecture to ensure fast query responses for thousands of simultaneous users.

Enterprise-Grade Security

Row & column level security, SSO and role-based permissions enforce secure data access for all users.

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Semantic Layer

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Benchmarked Performance: Supercharging Power BI with Kyvos

Metric/Capability	Power BI Alone	Power BI + Kyvos
No. of Records Tested	200M	2B+ with no performance drop
Concurrent Queries	50	50
90th Percentile Response Time	63 – 81.6 seconds	<8.4 seconds
CPU % Utilization	93.12%	33.56%
Test Suite Execution Time	50 minutes	35 minutes

Kyvos + Power BI: The Ultimate Analytics Power Stack

Capability	Power BI Alone	Power BI + Kyvos
Query Performance	Slows down with data/user growth	Sub-second responses on billions of rows
Scalability	Not horizontally scalable	Horizontally scalable, elastic deployments
User Concurrency	Limited by memory	1000+ users
Model Size	400 GB RAM	Unlimited
Refresh Limits	48 times/day, 5-hour window	Near real-time, unlimited, incremental refreshes
Rows Per Request	10,000 max	Millions
Advanced Analytics Features	Not supported	Advanced: parent-child, alternate, unbalanced/ ragged hierarchies, custom rollups, MDX functions
Data Modeling	Supports basic, limited complexity	Intuitive UI, ML-powered recommendations, AI-assisted KPI designer, support for complex relationships

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