Advanced Big Data Architecture Compound Design Patterns Reference Matrix

X - required design pattern
O - optional design pattern

	Automated Dataset Execution	Automatic Data Replication & Reconstruction	Automatic Data Sharding	Big Data Processing Environment*	Canonical Data Format	Complex Logic Decomposition	Confidential Data Storage	Data Size Reduction	Dataset Decomposition	Dataset Denormalization	Direct Data Access	File-based Sink	File-based Source	High Velocity Realtime Processing	High Volume Binary Storage	High Volume Hierarchical Storage	High Volume Linked Storage	High Volume Tabular Storage	Indirect Data Access	Large-Scale Batch Processing	Large-Scale Graph Processing	Poly Sink*	Poly Source*	Poly Storage*	Processing Abstraction	Random Access Storage*	Realtime Access Storage	Relational Sink	Relational Source	Streaming Egress	Streaming Source	Streaming Access Storage*
Data Transformation	X	X	o			o		o								o		o		X			X					X				X
Application Enhancement	X	X			o			o			o									X	o	o	X			X	o					X
Analytical Sandbox	o						o	o			o									X	o		X	X	X							
Batch Data Processing	X	X	o			o	o	o		o									o		X							X	X			X
Unstructured Data Store	X	X						o			o	o	x								X				o	X		o				X
Online Data Repository		X			o		o	o				o											X			X		X				X
Big Data Warehouse	X	X					o	X				o									X		X		X	X		o				X
Operational Data Store	o	X	X					o											X	X	o							X	X			o
Realtime Data Processing	X	X				o		o				o		X											X	X		o		X	X	o

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Official Mind Map Supplement

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