

Fundamental Big Data Architecture Compound Design Patterns Reference Matrix

X - required design pattern
O - optional design pattern

	Automated Dataset Execution	Automated Processing Metadata Insertion	Automatic Data Replication & Reconstruction	Automatic Data Sharding	Big Data Processing Environment*	Cloud-based Big Data Processing	Complex Logic Decomposition	Confidential Data Storage	Data Size Reduction	Dataset Decomposition	Fan-in Ingress	Fan-out Ingress	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	Intermediate Results Storage	Large-Scale Batch Processing	Large-Scale Graph Processing	Poly Sink*	Poly Source*	Poly Storage*	Processing Abstraction	Random Access Storage*	Realtime Access Storage*	Streaming Access Storage	Streaming Access Storage*	Streaming Egress	Streaming Source	Streaming Storage	Relational Sink	Relational Source
Big Data Pipeline	X			X																		X	X	X											
Big Data Processing Environment		O			O	O								X					O	X	X				O										
Poly Sink												X																	X			X			
Poly Source										O	O		X																	X				X	
Poly Storage			X			O	O	O																		X	X	X							
Random Access Storage				X											X	X	X	X																	
Streaming Access Storage									X																					X					



Module 10: Fundamental Big Data Architecture
Official Mind Map Supplement



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