

DATA RETRIEVAL TAXONOMY & CHEAT SHEET

Query Languages

- SQL
- SPARQL
- Graph Query (Cypher, Gremlin)
- XQuery / XPath

Text & Semantic

- Full-text search
- Vector search (semantic)
- Keyword / fuzzy
- Pattern / regex

Spatial & Temporal

- Temporal search (valid-time / transaction-time)
- Bi-temporal search
- Multi-temporal search
- Time-series search
- Spatiotemporal search

AI-Driven Retrieval

- AI / LLM querying
- RAG retrieval
- Natural language → query translation
- Semantic reasoning

Metadata & Schema-Based

- Schema navigation
- Hierarchical search (JSON/XML)
- Entity / relationship traversal
- Tags / labels / categories

Statistical & Analytical

- OLAP cubes
- Window functions
- Anomaly detection
- Similarity queries

Streams & Events

- Stream queries
- CEP patterns
- Real-time event alerts

Security & Governance

- RBAC / ABAC constraints
- Lineage / provenance
- Privacy-preserving search

Operational Dimensions

- Versioning / delta queries
- Freshness / recency retrieval
- Partition / index routing