



SNOWFLAKE

Complete Course Syllabus · 20 Domains · 200+ Topics · All features up to 2025

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complete syllabus map

FOUNDATION & ARCHITECTURE

Architecture

- Multi-cluster shared data arch
- Compute / Storage separation
- Virtual Warehouses (XS–6XL)
- Cloud Services layer
- Query Processing layer
- Database Storage layer
- Micro-partitioning (50–500 MB)
- Metadata pruning
- Columnar storage format
- Compression (auto)
- Editions: Std / Ent / BC / VPS
- AWS · Azure · GCP support
- Regions & availability zones
- Cross-region deployment

Databases & Schemas

- Database / Schema / Table hierarchy
- Namespacing: db.schema.object
- Information Schema
- SHOW commands
- Object ownership & privileges
- Transient databases
- Cloned databases
- Replication groups

Virtual Warehouses

- Sizes: XS to 6XL (credit doubling)
- Auto-suspend & auto-resume
- Multi-cluster warehouses
- Scaling policy: Economy vs Standard
- Warehouse credit billing
- Query queuing & concurrency
- Resource Monitors on warehouses
- Warehouse per workload pattern
- Serverless compute (tasks/pipes)
- Snowpark-optimised warehouses

SQL, DATA TYPES & QUERYING

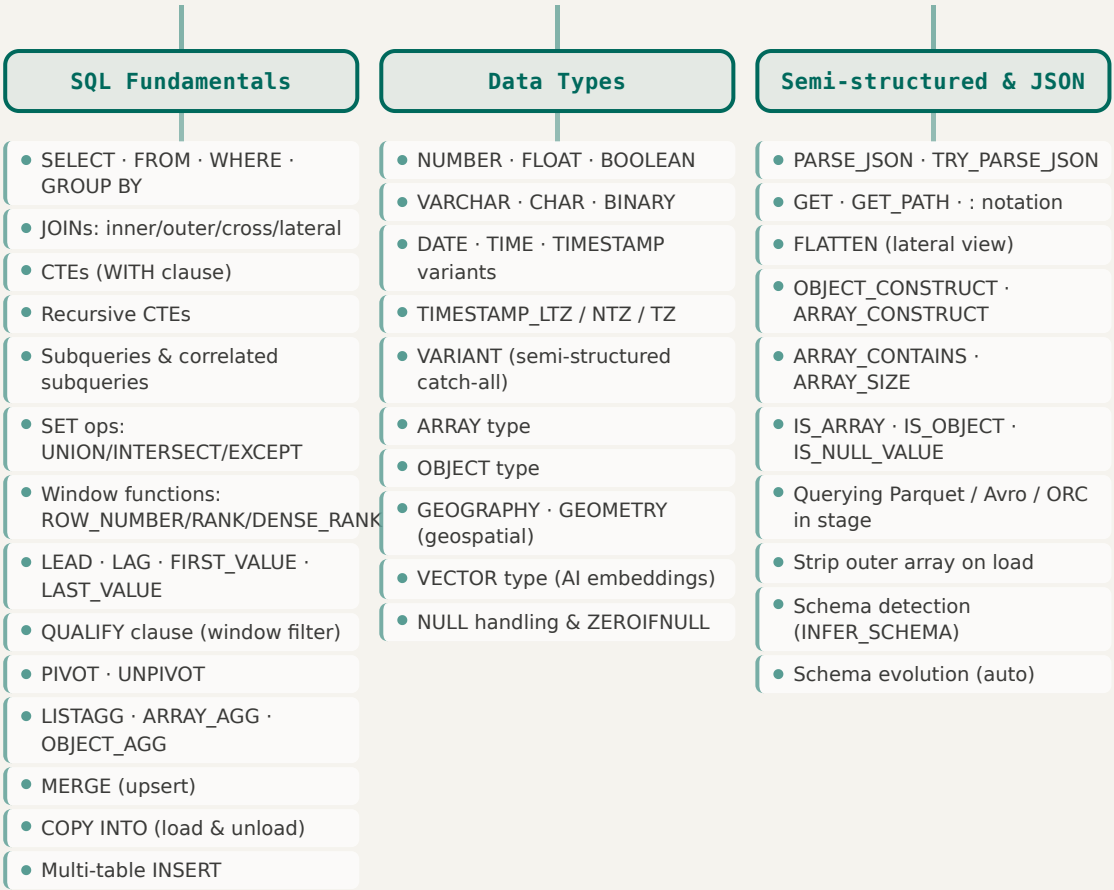
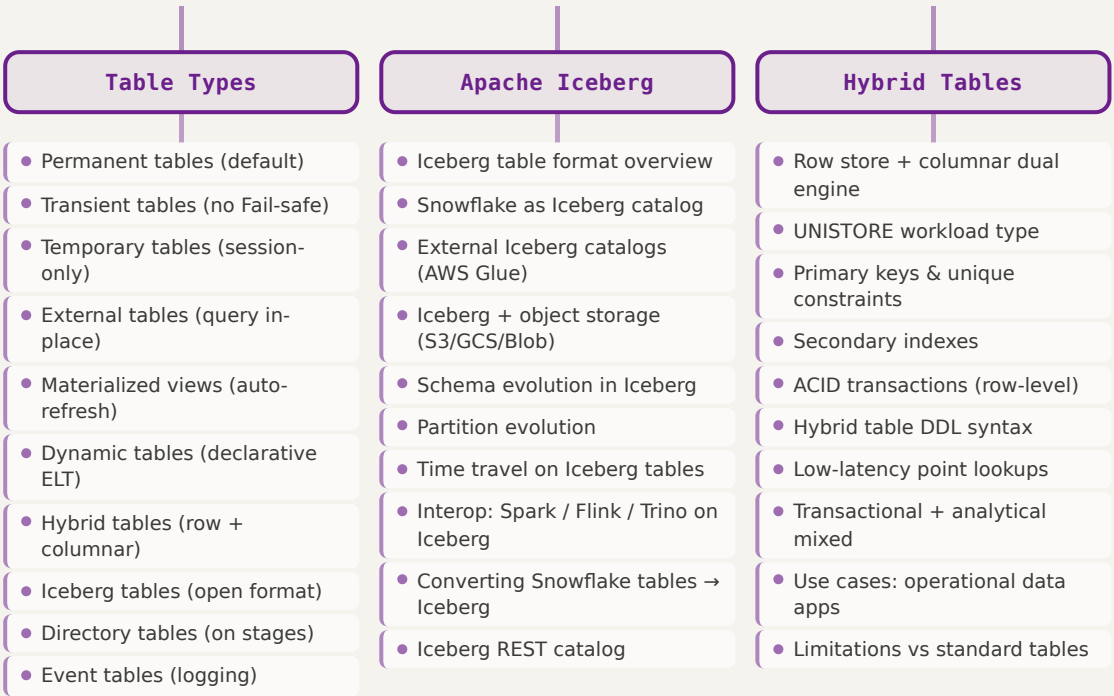
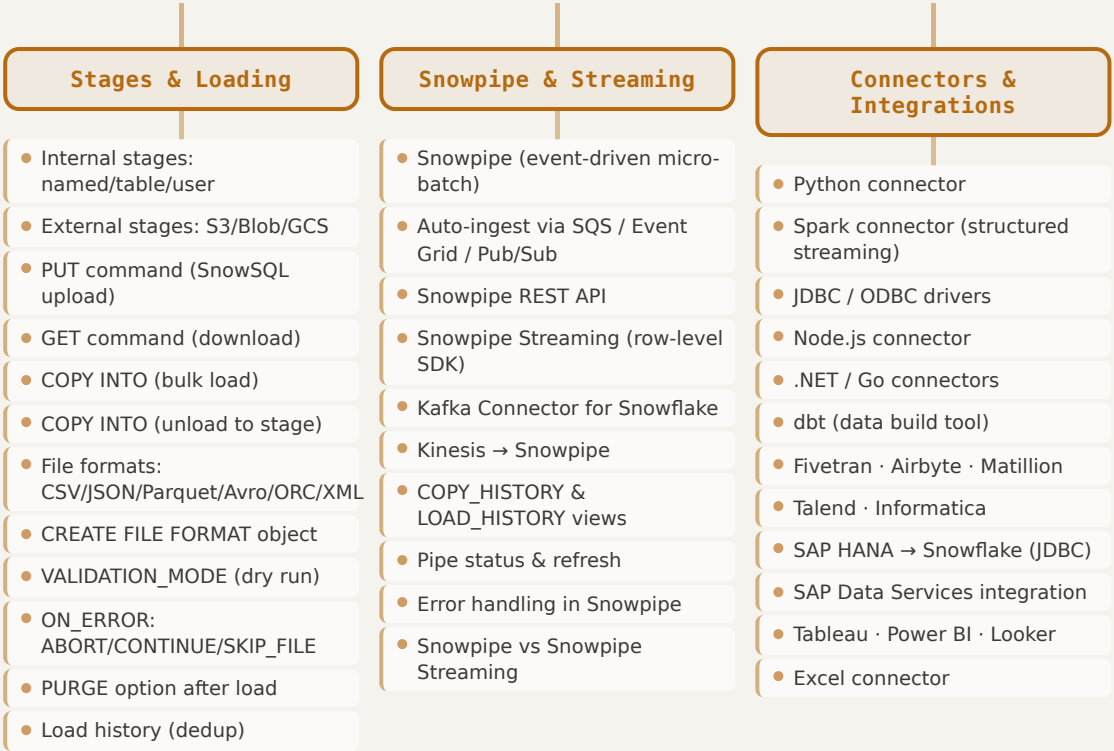


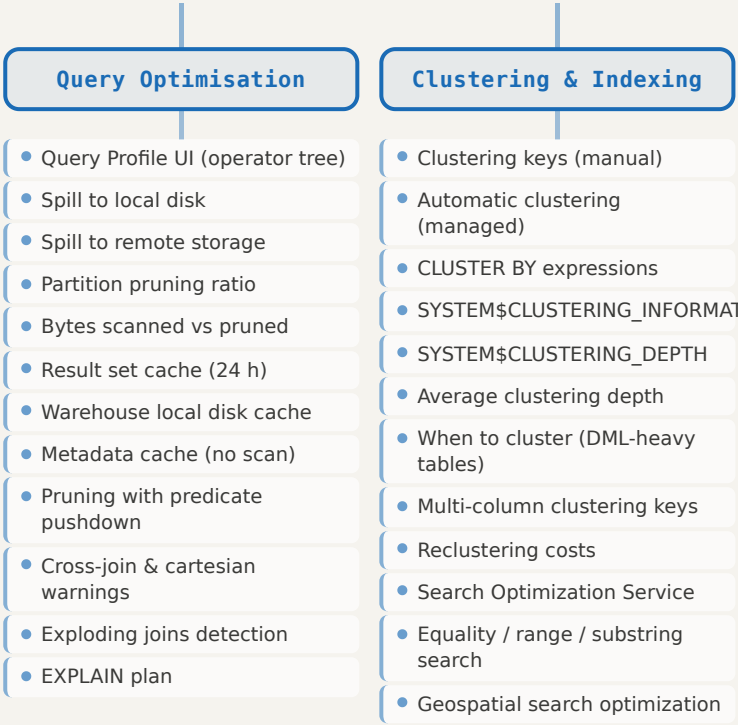
TABLE TYPES & STORAGE



DATA LOADING & INTEGRATION



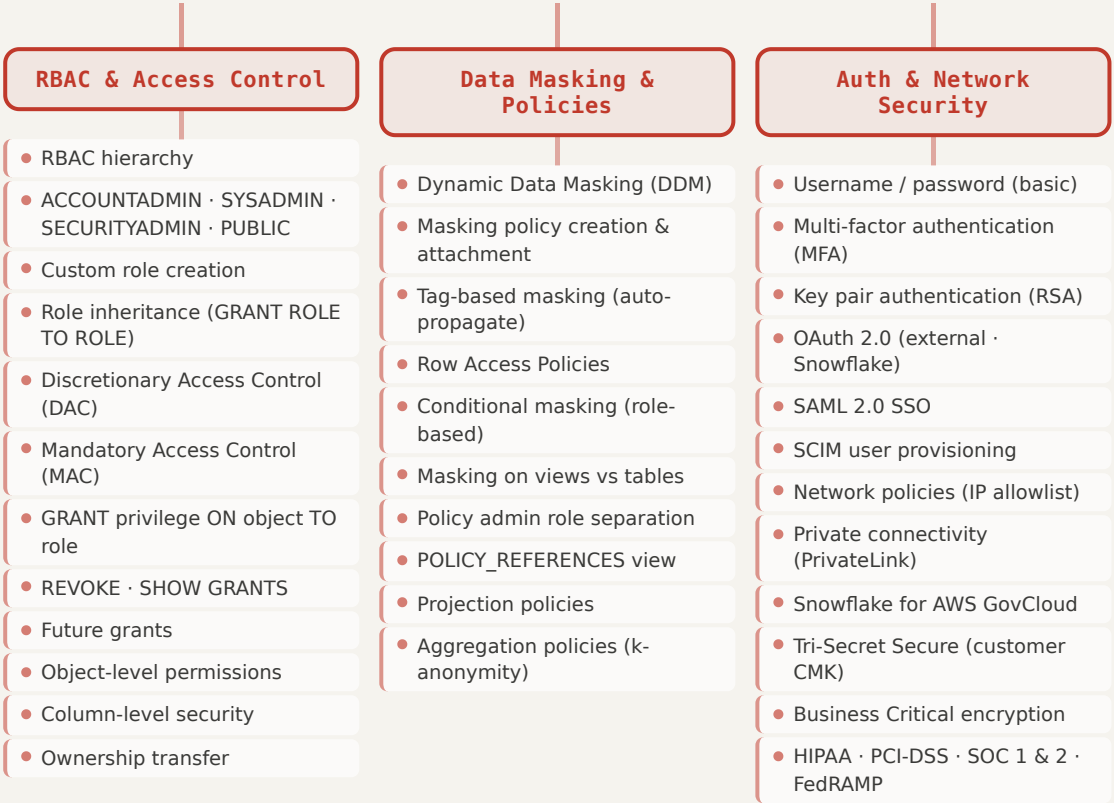
PERFORMANCE & OPTIMISATION



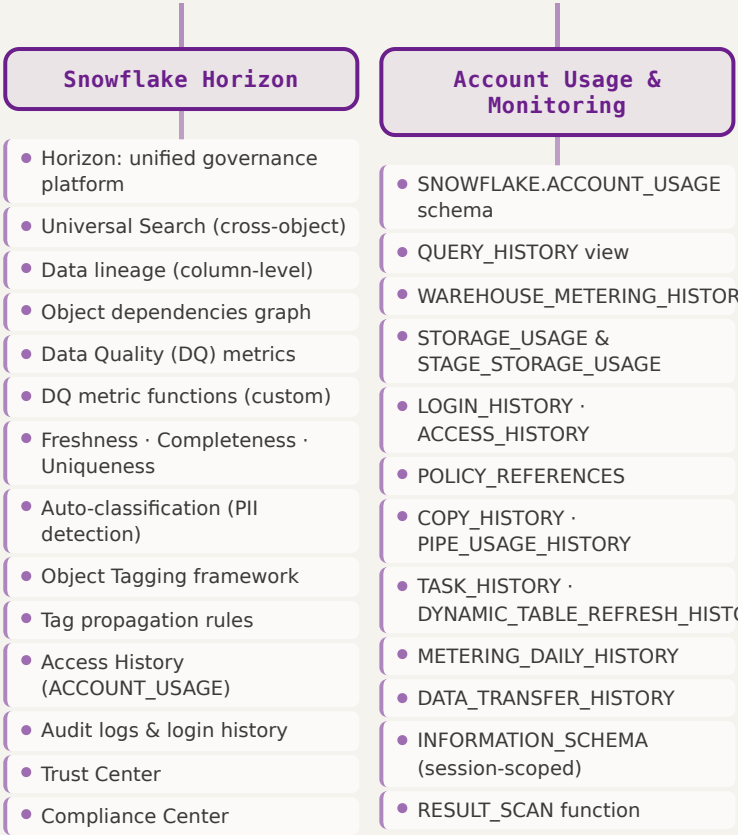
TIME TRAVEL, CLONING & DR



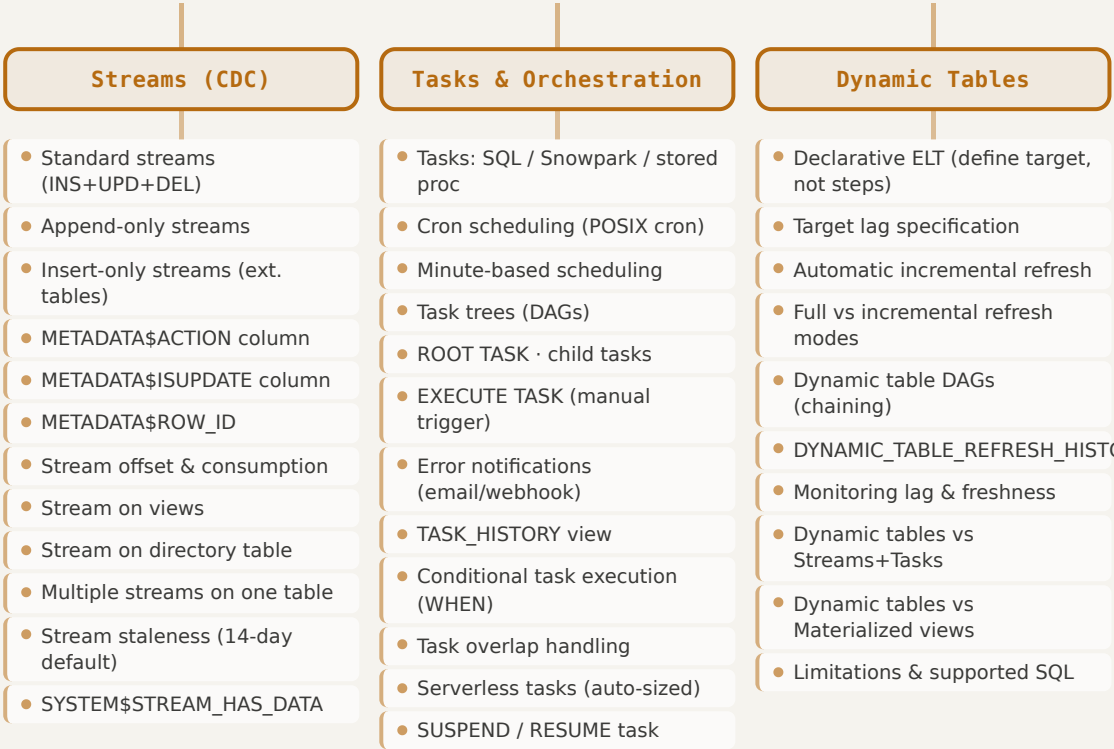
SECURITY & ACCESS CONTROL



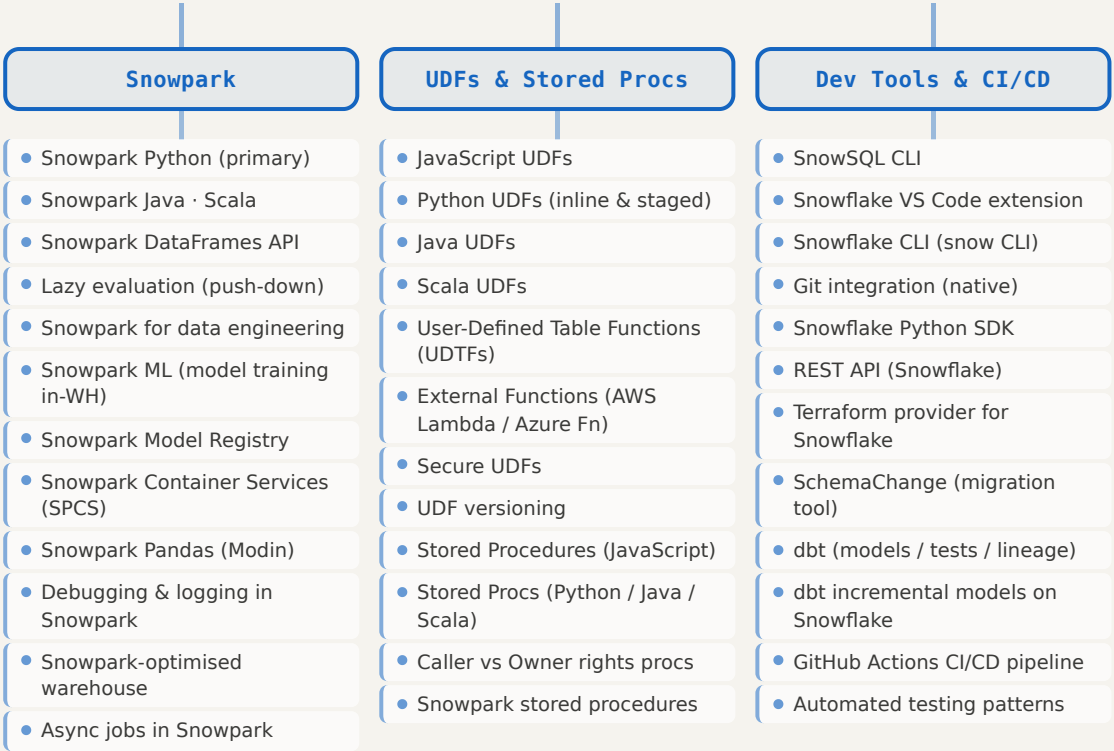
GOVERNANCE & OBSERVABILITY



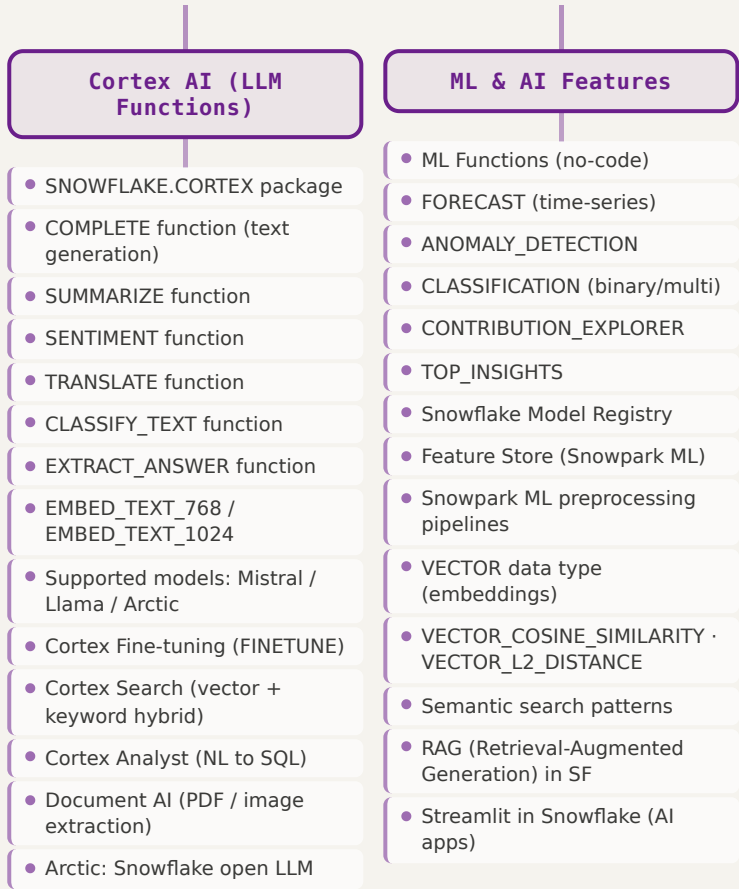
STREAMS, TASKS & PIPELINES



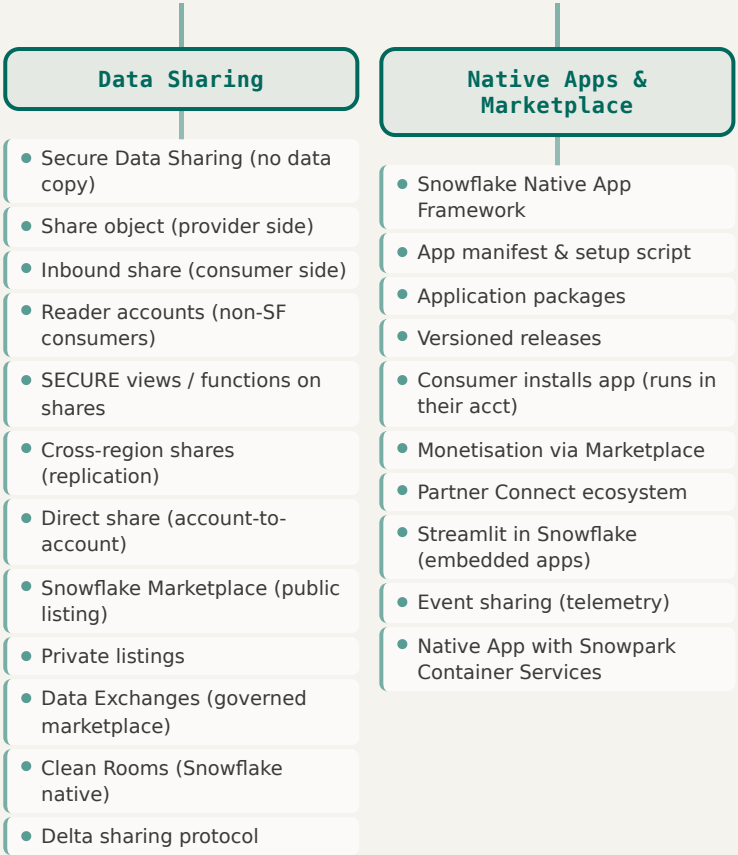
SNOWPARK, UDFS & DEV TOOLS



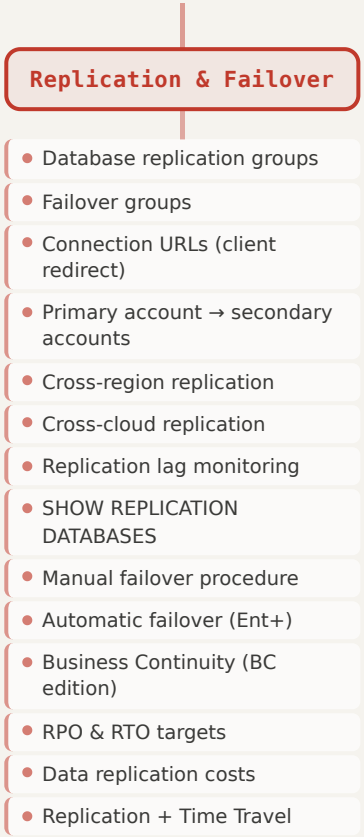
CORTEX AI & ML FEATURES



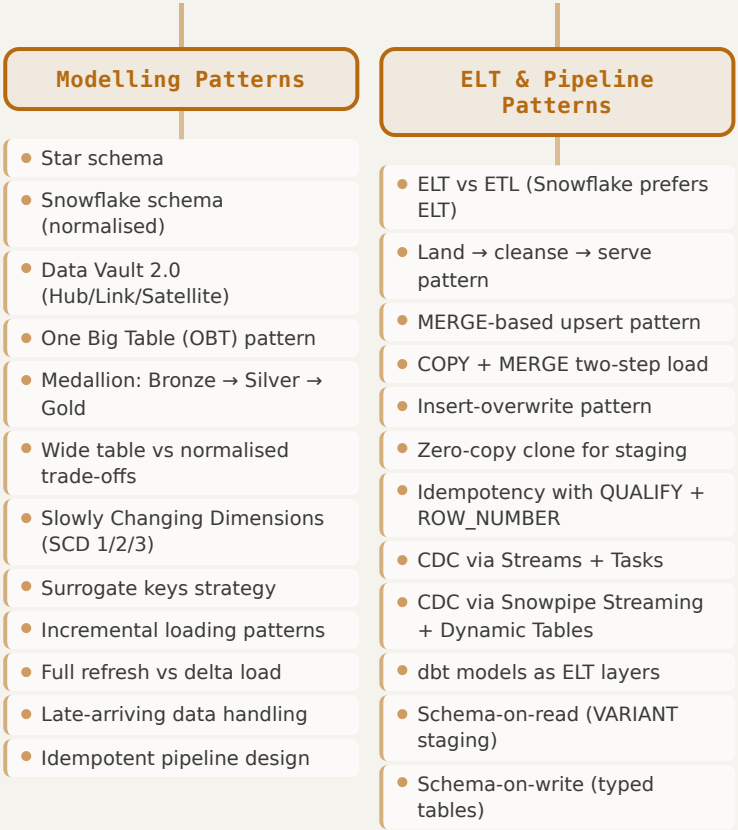
DATA SHARING & COLLABORATION



REPLICATION & BUSINESS CONTINUITY



DATA MODELLING & ARCHITECTURE



COST MANAGEMENT & ADMINISTRATION



CERTIFICATIONS & ECOSYSTEM



REAL-WORLD END-TO-END PROJECTS (MEDALLION ARCHITECTURE)

