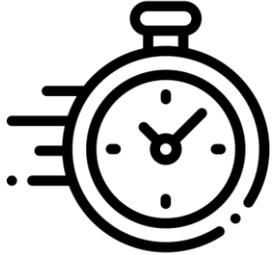


OLTP – Transactional Data Architecture



Purpose

- Day-to-day operations
- Real-time transactions

Workload

- Many small and fast queries
- Frequent INSERT / UPDATE / DELETE



Data

- Current & detailed
- Highly granular



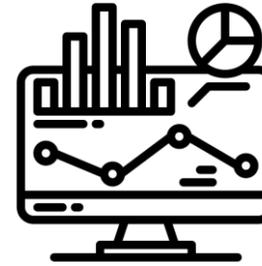
Design

- Normalized schema
- High data integrity

Performance Focus

- Speed & concurrency
- Fast read/write

OLAP – Analytical Data Architecture



Purpose

- Analysis & reporting
- Decision support

Workload

- Fewer complex queries
- Heavy aggregations



Data

- Historical data
- Aggregated & summarized

Design

- Denormalized schema
- Star / Snowflake models

Performance Focus

- Query efficiency
- Read optimization

