OLTP Vs OLAP

	OLTP	OLAP
Purpose	Real Time Data Entry	Read & Analyze Historical Data
Perform Updates	Yes	No, Read Only mostly
Perform Deletes	Yes	No. NEVER
Perform Inserts	Yes	Yes BUT periodically
Perform Selects	Generally for non-summary (detailed) rows.	Mostly for summary rows.
Source of Data	Data Entry generally by single data source	Historical summary data from multiple data sources
Associated Database	Only Operational	Analytical, may be oparational

	OLTP	OLAP
Validation factor	Optimized for validation of incoming data during transactions; uses validation data tables.	Loaded with consistent, valid data; requires no real time validation
Optimized for	A common set of transactions, usually adding or retrieving a single row at a time per table.	For bulk loads and large, complex, unpredictable queries that access many rows per table.
Support for users	Thousands of concurrent users.	Few concurrent users
Language for report generation	SQL	MDX and DAX