

Understand transact-SQL language capabilities for Azure Synapse Analytics

Azure Synapse Analytics supports querying both relational (dedicated and serverless SQL endpoints) and non-relational data (Azure Data Lake Storage Gen 2, Cosmos DB and Azure Blob Storage) at petabyte-scale using Transact SQL, supporting ANSI-compliant SQL language.

The Azure Synapse SQL query language supports different features based on the resource model being used. The table below outlines which Transact-SQL statements work against each resource model.

T-SQL Statement	Dedicated	Serverless
SELECT statement	Yes	No
INSERT statement	Yes	No
UPDATE statement	Yes	No
DELETE statement	Yes	No
MERGE statement	Yes	No
Transactions	Yes	Yes
Labels	Yes	No
Data load	Yes	No
Data Export	Yes, using CETAS	Yes, using CETAS
Cross database queries	No	Yes
Built-in functions (analysis, text, table-value)	Yes	Yes
Aggregates	T-SQL built-in aggregates	T-SQL built-in aggregates
Operators	Yes	Yes
Control flow	Yes	Yes
DDL statements	Yes	Yes