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Summary of data types

Snowflake supports most SQL data types. The following table provides a summary of the supported data types.

Category	Type	Notes
Numeric data types	NUMBER	Default precision and scale are (38,0).
	DECIMAL, NUMERIC	Synonymous with NUMBER.
	INT, INTEGER, BIGINT, SMALLINT, TINYINT, BYTEINT	Synonymous with NUMBER, except precision and scale can't be specified.
	FLOAT, FLOAT4, FLOAT8	^[1]
	DOUBLE, DOUBLE PRECISION, REAL	Synonymous with FLOAT. ^[1]
String & binary data types	VARCHAR	Default (and maximum) length is 16,777,216 bytes.
	CHAR, CHARACTER	Synonymous with VARCHAR, except the default length is VARCHAR(1).
	STRING, TEXT	Synonymous with VARCHAR.
	BINARY	

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Category	Type	Notes
Logical data types	BOOLEAN	Currently only supported for accounts provisioned after January 25, 2016.
Date & time data types	DATE	
	DATETIME	Alias for TIMESTAMP_NTZ
	TIME	
	TIMESTAMP	Alias for one of the TIMESTAMP variations (TIMESTAMP_NTZ by default).
	TIMESTAMP_LTZ	TIMESTAMP with local time zone; time zone, if provided, isn't stored.
	TIMESTAMP_NTZ	TIMESTAMP with no time zone; time zone, if provided, isn't stored.
	TIMESTAMP_TZ	TIMESTAMP with time zone.
Semi-structured data types	VARIANT	
	OBJECT	
	ARRAY	
Structured data types	ARRAY	Currently only supported for Iceberg tables.

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Category	Type	Notes
	MAP	Currently only supported for Iceberg tables.
Unstructured data types	FILE	See Introduction to unstructured data
Geospatial data types	GEOGRAPHY	
	GEOMETRY	
Vector data types	VECTOR	

[1] A known issue in Snowflake displays FLOAT, FLOAT4, FLOAT8, REAL, DOUBLE, and DOUBLE PRECISION as FLOAT, even though they are stored as DOUBLE.

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