


# Java and SQL Server supported data types

05/11/2019 2 phút để đọc  +1

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Next steps

**APPLIES TO:**  SQL Server  Azure SQL Database  Azure Synapse Analytics (SQL DW)   
Parallel Data Warehouse

This article maps SQL Server data types to Java data types for data structures and parameters on `sp_execute_external_script`.

The following SQL and Java data types are currently supported for Input/Output data sets and Input/Output parameters.

SQL data type	Java data type	Comment
Bit	boolean	
Tinyint	short	
Smallint	short	
Int	int	
Real	float	
Bigint	long	
float	double	
nchar(n)	String	
nvarchar(n)	String	
binary(n)	byte[]	
varbinary(n)	byte[]	
nvarchar(max)	String	

SQL data type	Java data type	Comment
varbinary(max)	byte[]	
uniqueidentifier	String	
char(n)	String	Only UTF8 Strings supported
varchar(n)	String	Only UTF8 Strings supported
varchar(max)	String	Only UTF8 Strings supported
date	java.sql.date	
numeric	java.math.BigDecimal	
decimal	java.math.BigDecimal	
money	java.math.BigDecimal	
smallmoney	java.math.BigDecimal	
smalldatetime	java.sql.timestamp	
datetime	java.sql.timestamp	
datetime2	java.sql.timestamp	