**SSIS Data Types**

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For all of its life, there have always been a lot of questions circulating around about data types in SSIS. What does an int in SQL map to in SSIS? What about a varchar? nvarchar? The questions could just go on and on. But, finally, we have an answer. In the all new SSISDB in 2012, there is a table built specifically to answer all of these questions. It’s called data\_type\_mapping, and exists as an actual table in the internal schema in tables. It’s a pretty small table, but it’s usefulness is far reaching. I’ve pasted the actual contents of the table here, for anyone who might not have SSIS 2012 or might not have the SSISDB set up.

|  |  |  |
| --- | --- | --- |
| mapping\_id | ssis\_data\_type | sql\_data\_type |
| 9 | Boolean | bigint |
| 8 | Boolean | bit |
| 10 | Boolean | int |
| 11 | Boolean | smallint |
| 12 | Boolean | tinyint |
| 1 | Byte | bigint |
| 13 | Byte | bit |
| 25 | Byte | int |
| 37 | Byte | smallint |
| 44 | Byte | tinyint |
| 22 | DateTime | datetime |
| 21 | DateTime | datetime2 |
| 36 | DateTime | smalldatetime |
| 55 | Decimal | decimal |
| 58 | Decimal | float |
| 57 | Decimal | numeric |
| 56 | Decimal | real |
| 23 | Double | decimal |
| 24 | Double | float |
| 33 | Double | numeric |
| 35 | Double | real |
| 2 | Int16 | bigint |
| 14 | Int16 | bit |
| 26 | Int16 | int |
| 38 | Int16 | smallint |
| 45 | Int16 | tinyint |
| 3 | Int32 | bigint |
| 15 | Int32 | bit |
| 27 | Int32 | int |
| 39 | Int32 | smallint |
| 46 | Int32 | tinyint |
| 4 | Int64 | bigint |
| 16 | Int64 | bit |
| 28 | Int64 | int |
| 40 | Int64 | smallint |
| 47 | Int64 | tinyint |
| 5 | SByte | bigint |
| 17 | SByte | bit |
| 29 | SByte | int |
| 41 | SByte | smallint |
| 48 | SByte | tinyint |
| 51 | Single | decimal |
| 54 | Single | float |
| 53 | Single | numeric |
| 52 | Single | real |
| 20 | String | char |
| 32 | String | nchar |
| 34 | String | nvarchar |
| 6 | UInt32 | bigint |
| 18 | UInt32 | bit |
| 30 | UInt32 | int |
| 42 | UInt32 | smallint |
| 49 | UInt32 | tinyint |
| 7 | UInt64 | bigint |
| 19 | UInt64 | bit |
| 31 | UInt64 | int |
| 43 | UInt64 | smallint |
| 50 | UInt64 | tinyint |