Type mapping

Default type maps of the UML to SQL (Generic / Oracle) transformations remap the types that are commonly used in the UML modeling domain (such as String) into types that are suitable for SQL domain (such as varchar).

UML to SQL Type Map

The default type map for these transformations is stored in the **UML to SQL Type Map** profile and automatically gets attached to your project at the 3rd step (the type mapping step) of the transformation wizard. If necessary it can be changed.

The Default map carries the following type conversions.

Source Type	Result Type
String	varchar (default)
	varchar2
	char varying
	character varying
	nvarchar
	nvarchar2
	nchar varying
	national char varying
	national character varying
	longvarchar
	long varchar
	char
	character
	nchar
	national char
	national character
	long char
short	smallint
long	number(20)
Integer	integer
int	int
float	float
double	double precision
date	date
char	char(default)
	character
	nchar
	national char
	national character
byte	number(3)
boolean	number(1)

If you have a situation when one type map imports another type map, you can specify another default mapping rule. Such situation appears, for example, in the Oracle type map, inheriting from the Standard type map where the Oracle mapping rule String-->varchar2 overrides the base mapping rule String-->varchar. For more information about the type mapping, see Transformation Type Mapping and Controlling Type Mapping Rule Behavior in MagicDraw User Guide.

⚠ **Note**
This feature is available with MagicDraw 18.0 SP1 or later.

Related pages

- Transformation Type Mapping
- Controlling Type Mapping Rule Behavior