

MsSQL - Create Database Table from Code

```
declare @TableName sysname = 'TableName'
declare @Result varchar(max) = 'public class ' + @TableName + '
{'

select @Result = @Result + '
    public ' + ColumnType + NullableSign + ' ' + ColumnName + ' { get; set; }
'

from
(
    select
        replace(col.name, ' ', '_') ColumnName,
        column_id ColumnId,
        case typ.name
            when 'bigint' then 'long'
            when 'binary' then 'byte[]'
            when 'bit' then 'bool'
            when 'char' then 'string'
            when 'date' then 'DateTime'
            when 'datetime' then 'DateTime'
            when 'datetime2' then 'DateTime'
            when 'datetimeoffset' then 'DateTimeOffset'
            when 'decimal' then 'decimal'
            when 'float' then 'double'
            when 'image' then 'byte[]'
            when 'int' then 'int'
            when 'money' then 'decimal'
            when 'nchar' then 'string'
            when 'ntext' then 'string'
            when 'numeric' then 'decimal'
            when 'nvarchar' then 'string'
            when 'real' then 'float'
            when 'smalldatetime' then 'DateTime'
```

```

        when 'smallint' then 'short'
        when 'smallmoney' then 'decimal'
        when 'text' then 'string'
        when 'time' then 'TimeSpan'
        when 'timestamp' then 'long'
        when 'tinyint' then 'byte'
        when 'uniqueidentifier' then 'Guid'
        when 'varbinary' then 'byte[]'
        when 'varchar' then 'string'
        else 'UNKNOWN_' + typ.name
    end ColumnType,
    case
        when col.is_nullable = 1 and typ.name in ('bigint', 'bit', 'date', 'datetime', 'datetime2', 'datetimeoffset',
'decimal', 'float', 'int', 'money', 'numeric', 'real', 'smalldatetime', 'smallint', 'smallmoney', 'time', 'tinyint',
'uniqueidentifier')
            then '?'
            else ''
        end NullableSign
    from sys.columns col
    join sys.types typ on
        col.system_type_id = typ.system_type_id AND col.user_type_id = typ.user_type_id
    where object_id = object_id(@TableName)
) t
order by ColumnId

set @Result = @Result + '
}'

print @Result

```

[Stored Procedure](#)

Revision #1

Created 2 September 2024 22:18:17 by Steve Ling

Updated 2 September 2024 22:52:53 by Steve Ling