Decision Table to Decide Data Type for a Column

General Considerations											
Must this Column always have data							Will this column seldom have data 20% - 40% empty				
Yes → set t	No → Set to Allow					Yes → set to Sparse			No → Do not set		
		Null								to Sparse	
Type Considerations											
Text Data											
Local Text Internatio		nal <= 20 ch		characters or		> 20 characters < 8000			> 80	> 8000 characters	
Text			always fixed no of			characters variable			variable length		
			characters			length					
Yes → Non	Non Yes → Unicode		Yes → (n)char			Yes → (n)varchar			Yes → (n)varchar(max)		
Unicode	nicode										
Numeric Data											
Money Data											
< +/- 214,748.3648						>+/- 922,337,203,685,477.5807					
Smallmoney						Money					
Whole Number Data											
0 to 255					/- 2,147,483,647		+/- 9,223,372,036,854,775,807				
Tin	S	Smallint			Int				Bigint		
Decimal Data											
Scientific Data						Precise data					
float			Real			Decimal			Numeric		
Date Time Data											
0001-01-01 through 9999-12					Date and t			_	Time zone aware		
Date			Time			Datetime2			Datetimeoffset		
Special Types											
True or Xml					y co-ordinates		Picture	Tree	ı	Miscellaneous	
false ord		inates flat		globe	globe			structure			
earth											
Bit Xml		eomet	try	Geography			Image	Hyerarchid		or, timestamp,	
								table	, sql_variant		