**數值型別**

|  |  |  |
| --- | --- | --- |
| 資料型別 | bytes數 | 資料範圍 |
| bit | 1 | 0, 1 |
| tinyint | 1 | 0 ~ 255 |
| smallint | 2 | -32768 ~32767 |
| int | 4 | -231 ~2 31 -1( ±21億) |
| bigint | 8 | -263 ~2 63 -1( ±9.22 X 1018) |
| real | 4 | 7位有效位數 |
| float | 8 | 15位有效位數 |
| decimal(p, s) | 依據 precision而定 p = 1 ~ 9: 5 bytes p = 10 ~ 19: 9 bytes p = 20 ~ 28: 13 bytes p = 29 ~ 38: 17 bytes | p: precision(1 ~ 38),  s: scale <= p decimal(6, 2)=>9999.99  (4).(2) |

**日期時間**

|  |  |  |
| --- | --- | --- |
| 資料型別 | 資料範圍 | 精度 |
| datetime | 1753-1-1 ~ 9999-12-31 23:59:59.999 | 0.01/3 sec |
| smalldatetime | 1900-1-1 ~ 2079-6-6 23:59 | 1 min |
| date | 0001-1-1 ~ 9999-12-31 | 1 day |
| time | 0:0:0 ~ 23:59:59.9999999 | 10-7sec |
| datetime2 | = date + time | 10-7sec |
| datetimeoffset | = datetime2 + 時區  例如: ‘2021-5-31 12:30+08:00’ | 10-7sec |

**文字**

char(1 ~ 8000)

varchar(1 ~ 8000)

nchar(1 ~ 4000)

nvarchar(1 ~ 4000)

varchar(max): 最多 231個字元 => ~~text~~

nvarchar(max): 最多 230個字元 => ntext

varbinary(max): 最大2GB => image