# SOLD ATA TYPES

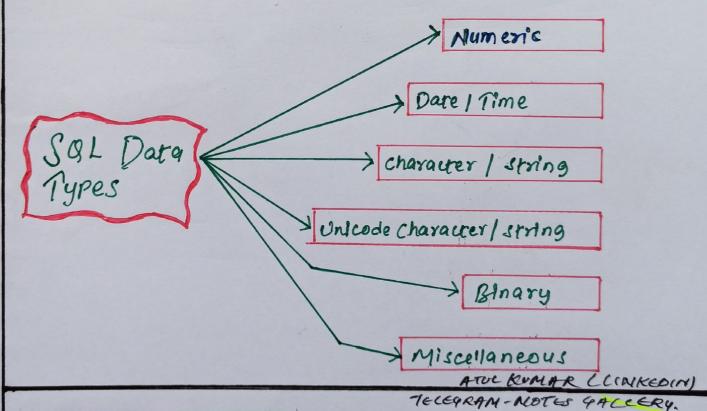
## \* Sgh data types:-

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- 1). SQL data types are used to represent the nature of data. that is stored in database.
- 21. There are mainly six data types of SQL.
- 3). If we want a column to store only integer value, then we can define its data type as int:
- 4). In detabase each column has specific data type. Data type specifies type of data that column can hold it. Such as date, string, numeric value etc.

  SQL data types:-



#### 1). Numerie data type:-

BIT (size): The number of bits per value is specified in size. The size character can had value from 1 to 64 And default value is 1.

- [INT (size):] The size character can hold maximum display with i.e. 255. It is used for integer value.
- · INTEGER: It is equals to INT (size).
- · [FLOAT (size,d):] The size parameter shows the total number of digits. Alumber of digit after decimal point denoted by d.
- FLOAT (P): It is used to denote floating point number.

  R determines to use FLOAT / DOUBLE for

  resulting data type. If P beth 0-24 then FLOAT

  & P is been 25-53 then Double.
- Double (size,d): Total number of digits specified in size.

   Number of digit after decimal is denoted by d?
- · DECIMAL (Size, d): To specify fixed point number.
  - size denotes toral number of digits.
  - Number of digit after decimal is denoted by d'
  - Max value of size is 65 & default is 10.
  - Max value of 'd' is 30 & default is D.
- · DEC(size,d): It is equal to DECIMAL (size, d).
- BOOL: It is used to find boolegn values true or False.
  - Zero Value l's false.
  - Mon-zero Value is true.

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#### DATE / TIME

- [DATE:] Its format is yyyy MM DD.

  Its range from '1000 01 01' to '9999 12 31'.
- · DATETIME (FSP): It is combination of date & time.
  - Format is YYYY-MM-DD, hh:mm:ss.
  - Range betn' 1000 01 -01 00:00:00 to 9999 - 12 - 31 23:59:59'.

#### · TIMESTAMP (FSP): To specify timestamp.

- It stores value in second since unix epoch.
- Format is YYYY-MM-DD hh: MM:SS.
- Its range betn '1970-01-01 00:00:01'UTC
  to '2038-01-09 03:14:07'Utc.
- TIME (FSP): It stores the time in format hh:mm:ss.
   Range beth 838:59:59' to 838:59:59'
- · YEAR: Stores year in 2 digits or 4 digits format.
  - Range 1901 to 2155 in 4 digit format.
  - Range 70 to 69 represents 1970 to 2069.
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#### Unicode character / String :-

- · Inchar: Fixed length with maximum length of 4000 characters.
- · Invarchar: Variable length storage with maximum length of 4000 character.
- · [nvarchar(max):] Variable length storage with provides max characters.
  - Max size is 536.870,912 characters.

## Binary :-

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- · binary (n): It is fixed length with maximum length of 8000 bytes.
- · Varbinary: It is a variable length storage with provided max 8000 bytes.
- · Varbinary (max): -] It is a variable length storage with provided maximum 2 GB of size.
- · Image: The Variable length storage with maximum size of 29B.

#### Miscellaneous

- · [XML] It is used to store XML formatted data and we can store maximum 2GB data.
- · Cursor It is used to store a reference to cursor object.
- · table stores a result set for later processing.
- Oniqueidentifier It is used to store globally unique identifier (GUID).
- It stores upto 8000 bytes of data.

   It is used to store values of various data
  types except text, ntext, varchar(max), xml etc.

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