

DATA TYPE :

It is used to find out which kind or which type of Data must be store in a particular ~~managing~~ memory location.

Types of Data Type:

1) CHAR

2) VARCHAR / VARCHAR 2

3) DATE

4) NUMBER

5) LARGE OBJECTS

1) character large object

2) Binary large object

CHAR :

* It is used to store the characters such as

'A-Z', 'a-z', '0-9', '@#\$', 'Alphanumeric'

* Always characters ~~are~~ enclose within single

~~codes~~ Quotes (' ')

Siva - It is not character

'Siva' - It is character

0-9 - It is not character

'0-9' - It is a character

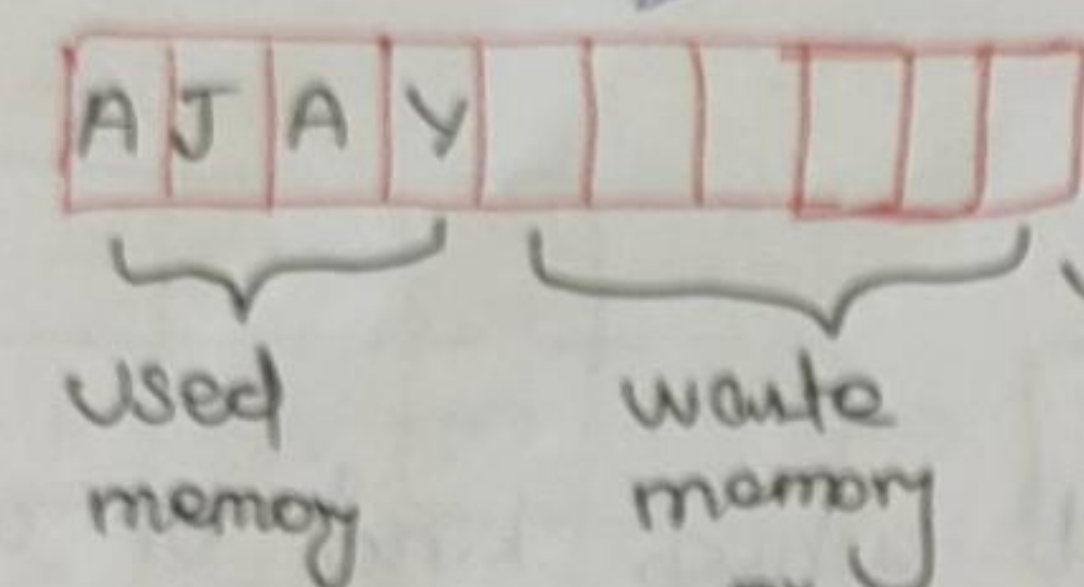
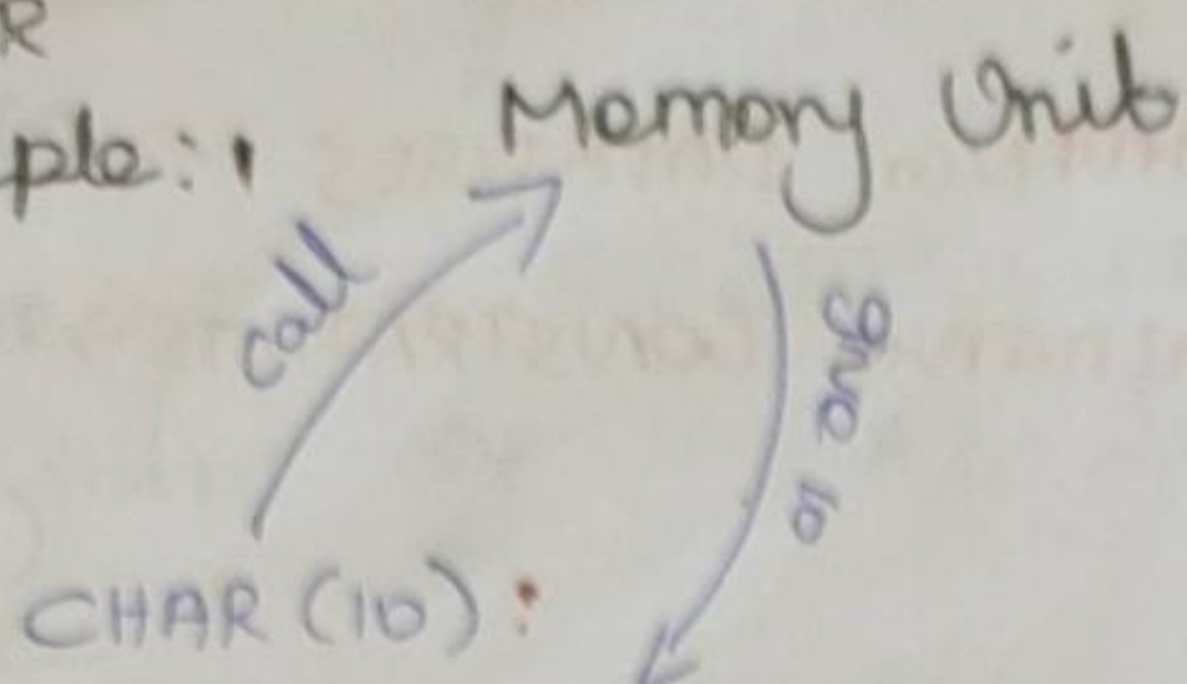
* Whenever we use char datatype we need to mention size for it.

Syntax : ~~char~~ CHAR (size)

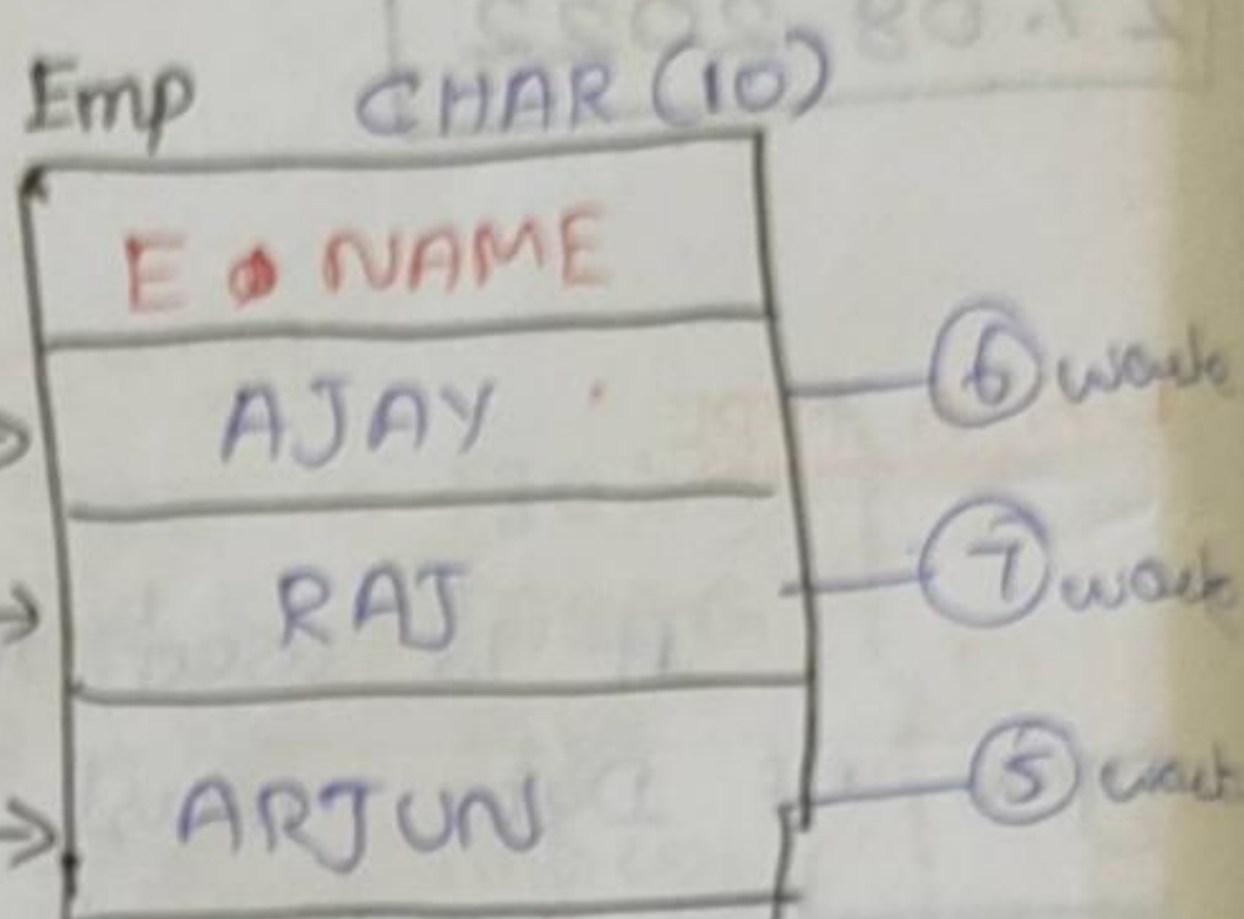
* CHAR Datatype up to 2000 characters

* CHAR Follows "Fixed LENGTH MEMORY ALLOCATION"

CHAR
Example:



Note: Waste the memory
It is only used for fixed
character like, phone number
author number



VARCHAR Example:

VARCHAR

* It is used to store the character such as
'A-Z', 'a-z', '0-9', '@#\$', 'Alphanumeric'

* Always characters enclose within single
Quotes (' ')

* Whenever we use varchar datatype we need
to mention size for it

SYNTAX: VARCHAR (size)

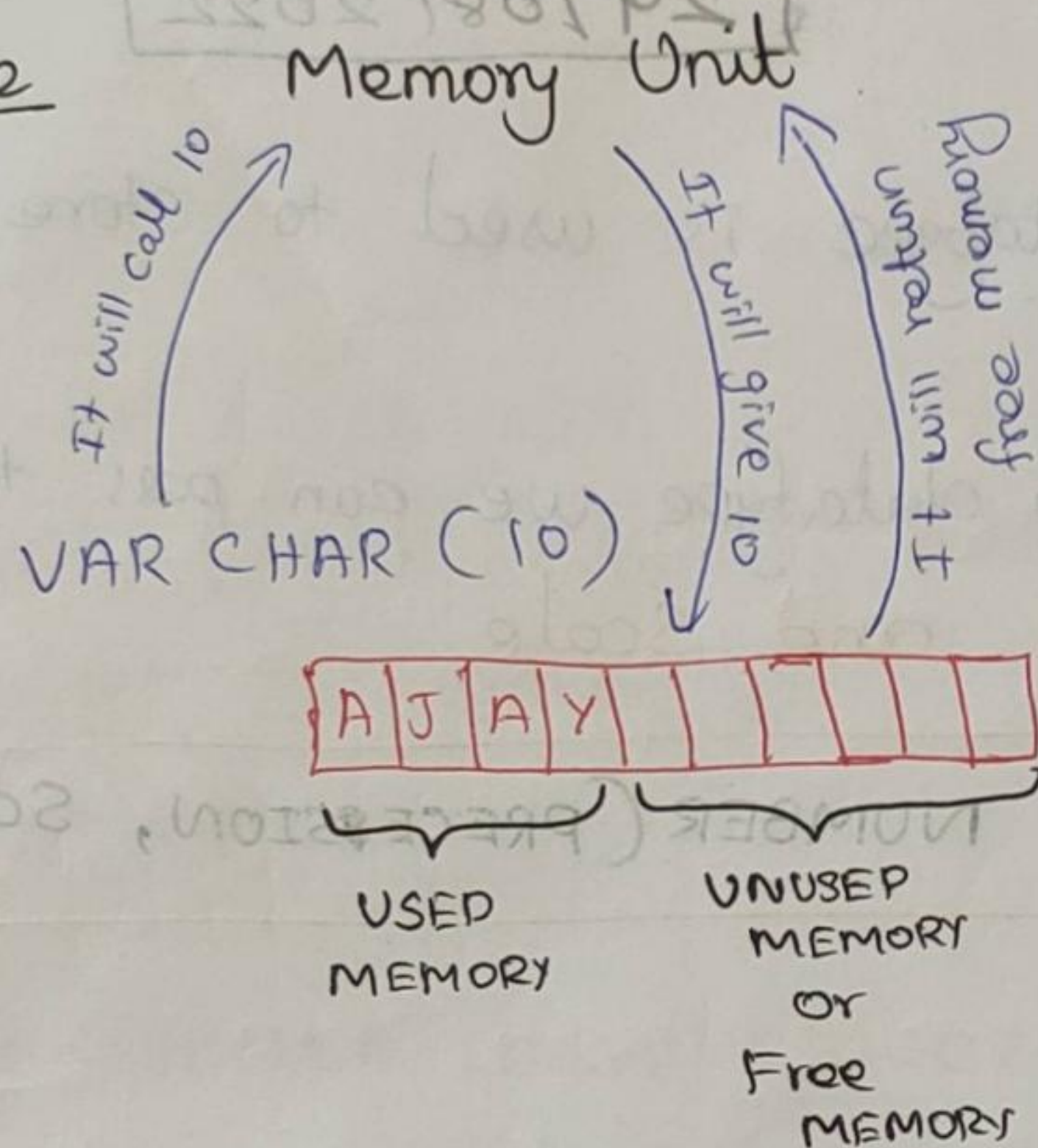
* VARCHAR Datatype upto 2000 characters

* VARCHAR Follows 'VARIABLE LENGTH MEMORY
ALLOCATION'

Example:

SYNTAX: VARCHAR (size)

Example



NOTE:
This type unused memory will return back to Memory Unit

VARCHAR 2

It is a updated version of VARCHAR

VARCHAR 2 stores upto 4000 characters

DATE

It is used to store the date in specific format

ORACLE SPECIFIED FORMAT

'DD-MON-YYYY' → '27-AUG-2022'
(or)

'DD-MON-YY' → '27-AUG-22'

SYNTAX : DATE

DATE	
DOB	
01-08-22	→ X
01-Aug-22	→ ✓

NOTE:
Only accept for these Two format

NUMBER:

29/08/2022

NUMBER Datatype is used to store the Numerical value.

For Number datatype we can pass two inputs that is Precision and Scale

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SYNTAX: NUMBER (PRECISION, SCALE)

(Optional)

Precision

It is used to specify the number of Integer that can be store in particular Memory location

Precision ranges from 1 to 38

SCALE:

It is used to store Decimal values (or) floating values with in the precision

The maximum value we can pass to the Scale is 127

Example

NUMBER (Precision, Scale)

NUMBER (5) + 9 9 9 9 9

NUMBER (5,0) + 9 9 9 9 9

NUMBER (5,2) + 9 9 9 9 9

NUMBER (5,5) + 9 9 9 9 9

NUMBER (2,5) + 0 0 0 9 9

NUMBER (1,6) + 0 0 0 0 0 9

NOTE:

NUMBER DATATYPE is having Inbuilt feature to roundoff the number

LARGE OBJECT

i) CHARACTER LARGE OBJECT (CLOB)

In character large object we can store huge amount of file upto 4GB

ii) Binary LARGE OBJECT (BLOB)

It is used to store the Binary values of Images, videos, MP3, MP4 etc upto 4GB