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APQ0.1

Advanced Power Query

"M" STEP BY STEP Beginners Guide (PART II)

M-CODE

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Introduction

- M Language Structure
- Applied Steps
- Expressions & Values
- Value types in M language

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Value types in M language

- Primitive Value
- Function Value
- Structured Data Values

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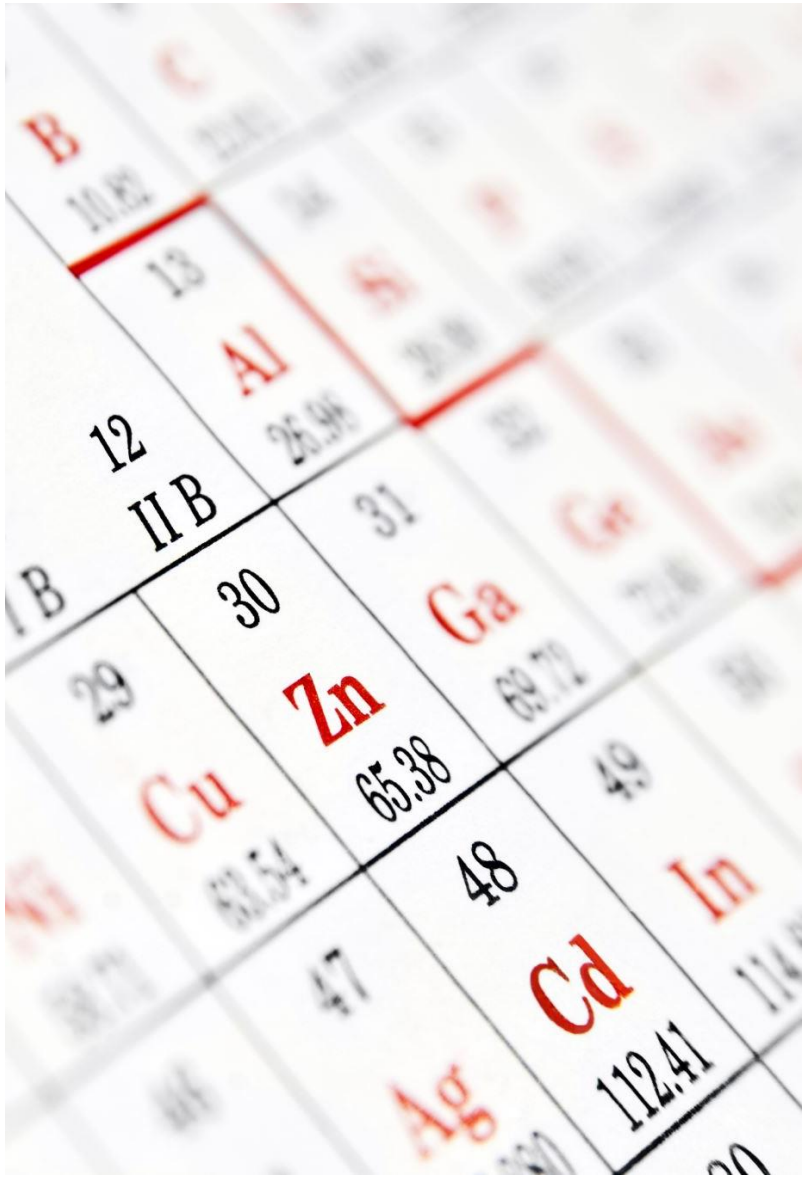

Structured data values

1. List
2. Record
3. Table

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Lists

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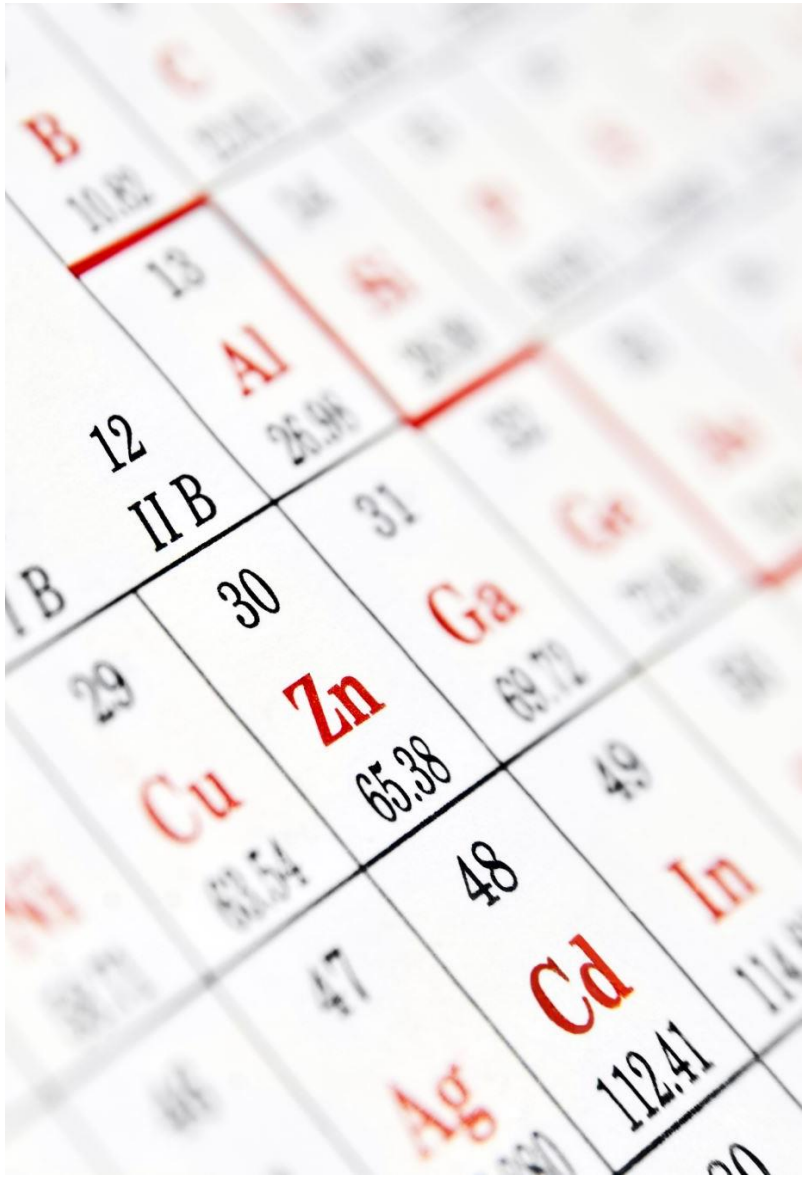


List

A List is a **zero-based ordered sequence** of values enclosed in curly brace characters { }

0 1 2

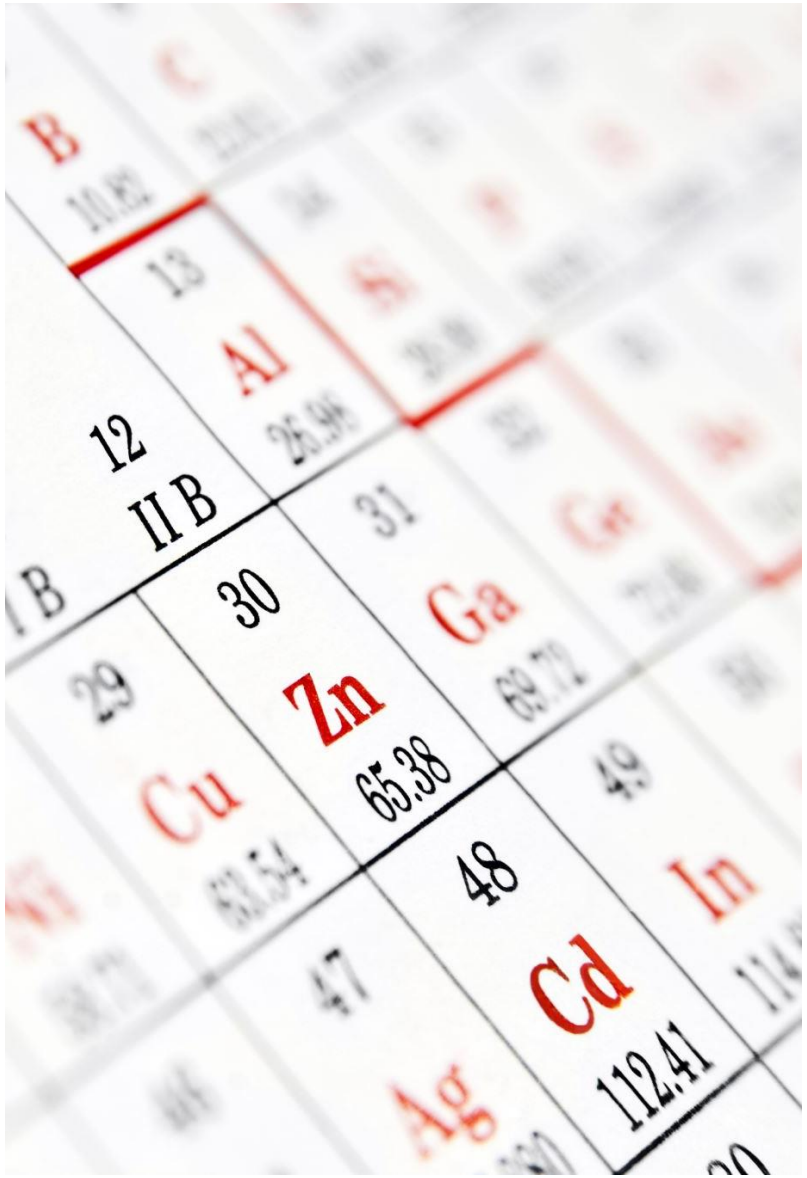
To create list of numbers : *{2,4,6}*

To create a list of a range of numbers: *{1..100}*

To create a list of lists: *{{2,4},{6,8},{10,12}}*

To create a list of records:

{[ID=1,Name="Tarek"], [ID=3,Name="Ahmed"]}



List.. Continued

To access primitive value from a list:

To get the first item of the list: *{2,4,6}{0}*

To get the 2nd item of the 3rd list:

{{2,4},{6,8},{10,12}}{2}{1}

To get the 2nd record:

{[ID=1,Name="Tarek"], [ID=3,Name="Ahmed"]}{1}

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Records

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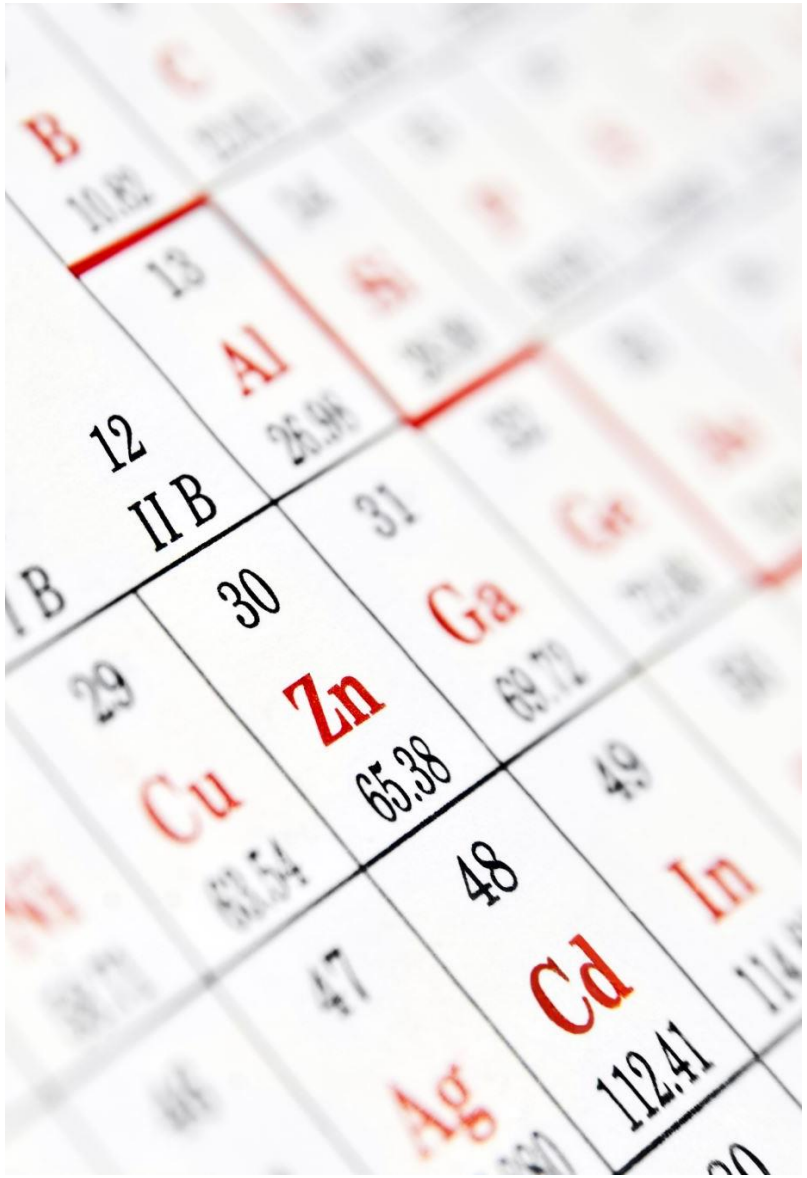


Record

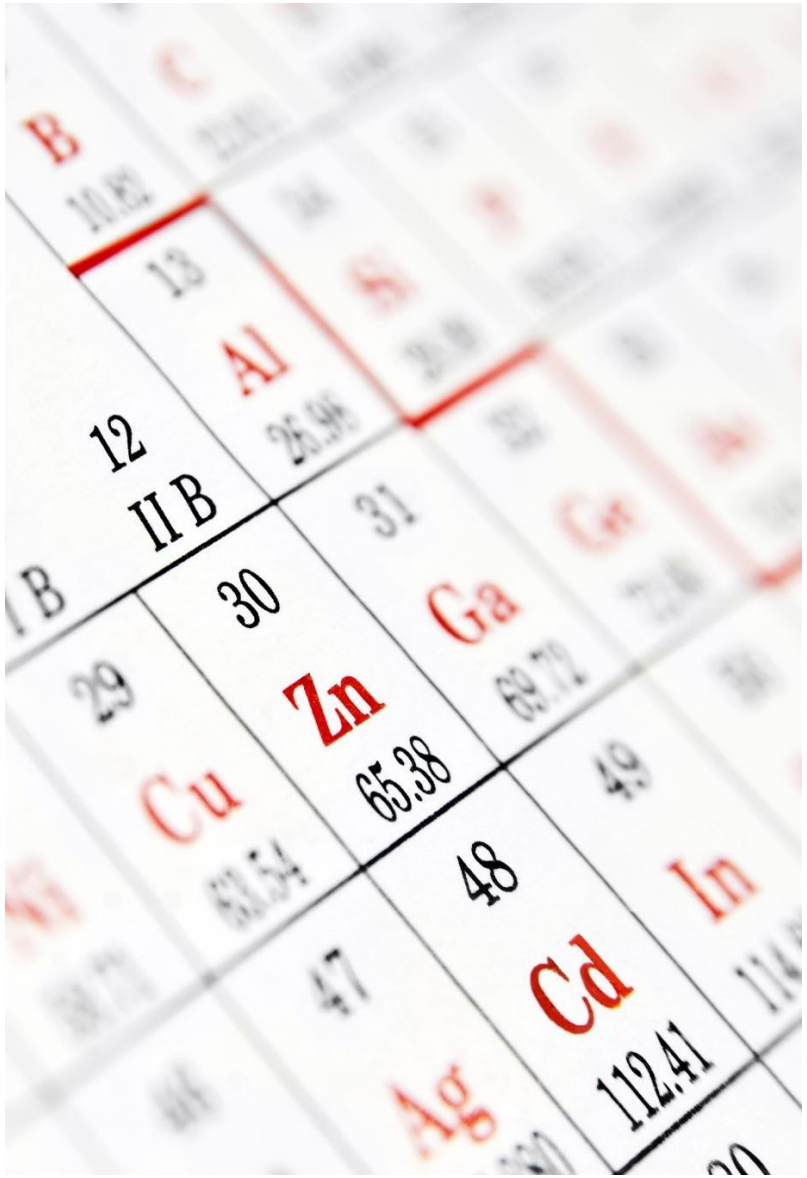
A Record is a set of **fields.** A field is a **name/value** pair where the name is a text value that is unique within the field's record

Order ID	Vendor	Amount	Date
C100	AAA	100	12/31/2020

Unique

Order ID	C100
Vendor	AAA
Amount	100
Date	12/31/2020

View in Power Query Editor



Record... continued

To create a record:

MyRecord =[Order ID = "C100",

Vendor = "AAA",

Amount = 100,

Date = #date(2020,12,31)]

To get the value of a specific field:

MyRecord[Vendor]

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Tables

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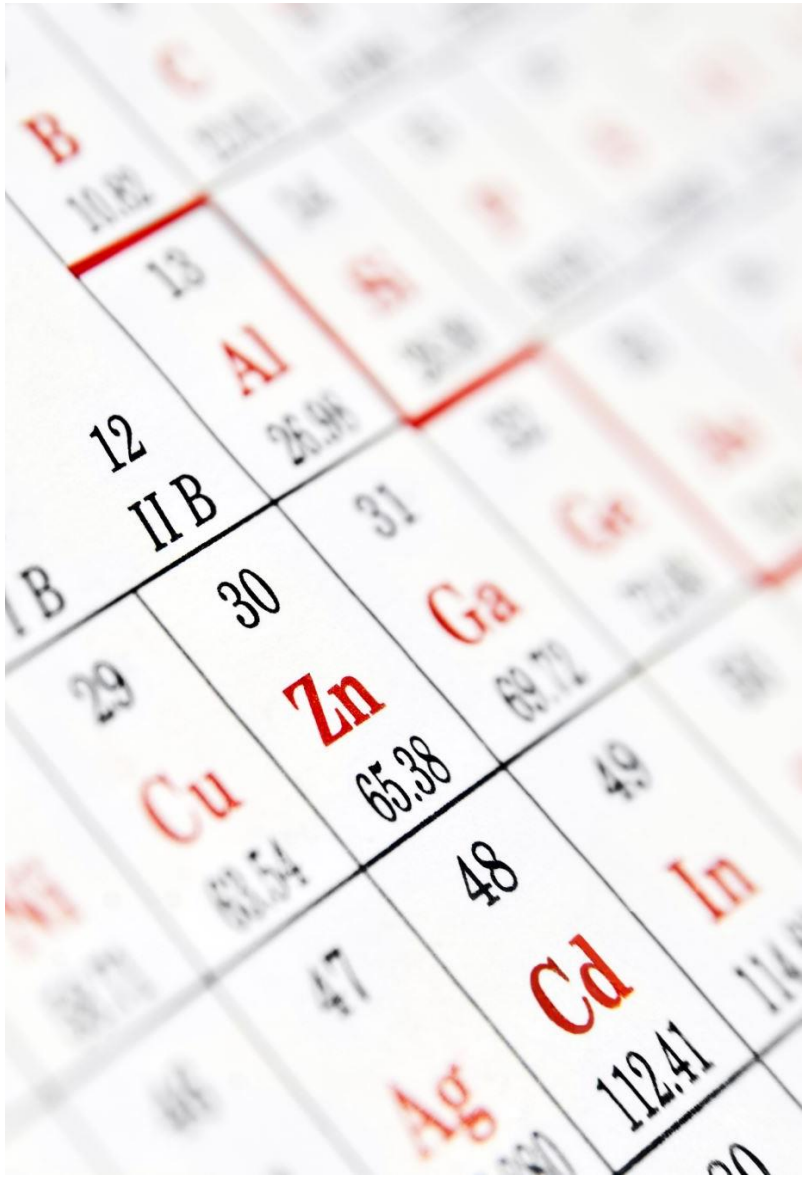

Table

A Table is a set of values organized into named columns and rows.

List

	OrderID	Vendor	Amount	Date
0	C100	AAA	100	12/31/2020
1	C200	XXX	150	1/1/2021
2	C300	BBB	200	2/1/2021

Record

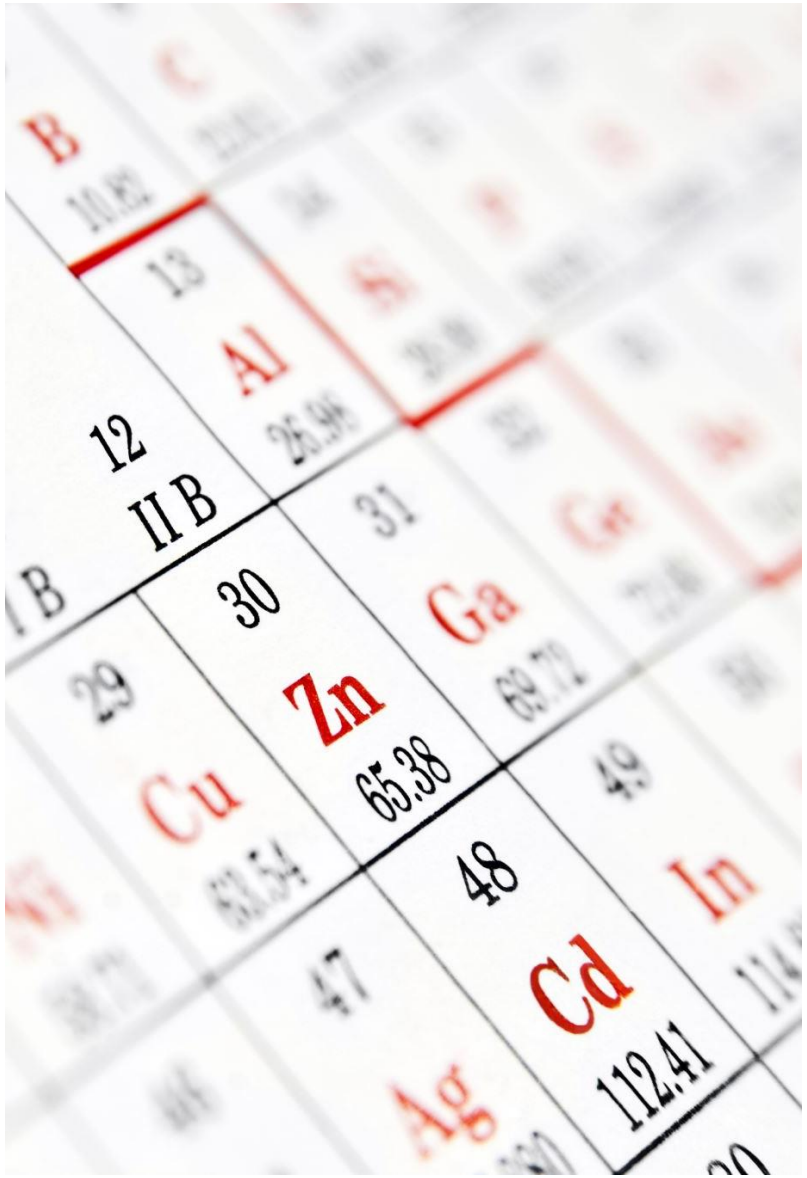

Table .. Continued

Use #table to create a table from a list of column names & a list of rows.

To create a table:

```
MyTable = #table (
        {"OrderID", "Vendor", "Amount", "Date"},
        {
        {"C100","AAA",100,#date(2020,12,31)},
        {"C200","XXX",150,#date(2021,01,01)},
        {"C300","BBB",200,#date(2021,02,01)}
        })
```

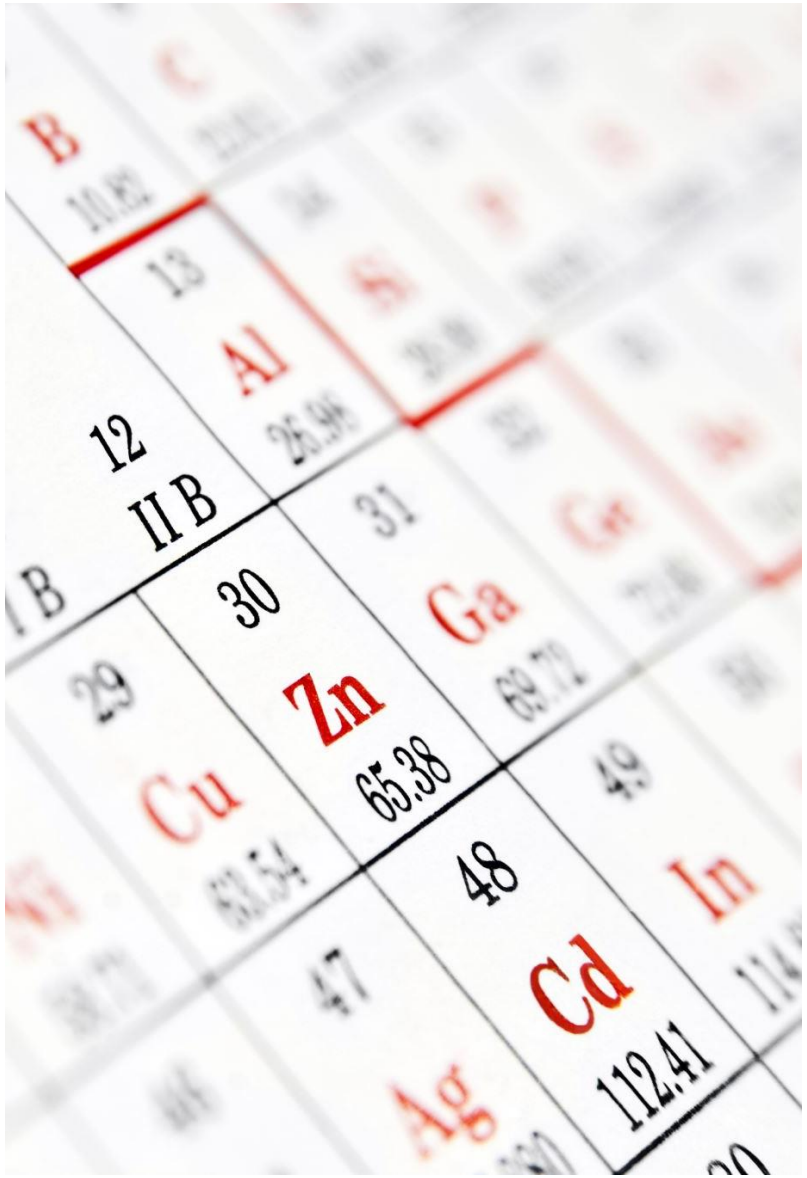

Table .. Continued

To access first row of a table:

FirstRow = MyTable{0}

To access specific column:

VendorColumn = MyTable[Vendor]

To access the value of Date column in the 2nd row:

Value = MyTable{1}[Date]

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