# Dax and Other Calculations

### Calculated Columns

**For Finding Out Entity Type from GSTIN**

EntityType =

SWITCH (

    MID(Original[GSTIN], 6, 1),

    "P", "Sole Proprietery",

    "C", "Company",

    "H", "HUF",

    "A", "AOP",

    "B", "BOI",

    "G", "Government",

    "J", "Artificial Juridical Person",

    "L", "Local Authority",

    "F", "Firm",

    "T", "Trust",

    "Other"

)

**State Code**

State Code = LEFT(Original[GSTIN],2)

Sate

State Display =

IF(

    ISBLANK(RELATED('Vendor State'[State Name])),

    "Import",

    RELATED('Vendor State'[State Name])

)

**Type Of Bill**

Type\_of\_Bill =

SWITCH(TRUE(),

    CONTAINSSTRING('Original'[Trans No ], "SUB"), "Sub Contract Bill",

    CONTAINSSTRING('Original'[Trans No ], "PB"), "Purchase Bill",

    CONTAINSSTRING('Original'[Trans No ], "DB"), "Direct Bill",

    CONTAINSSTRING('Original'[Trans No ], "SB"), "Service Bill",

    CONTAINSSTRING('Original'[Trans No ], "URC"), "RCM",

    "Other"

)

**For Importing State Code Table Python Script**

import pandas as pd

state = pd.read\_html("https://cleartax.in/s/gst-state-code-jurisdiction")

state= state[0]

state.columns = state.iloc[0]

state = state[1:]

### TDS TDS Calculated Columns for Expense Bifurcation between 194C & 194 J SWITCH(TRUE(),

### CONTAINSSTRING(Original[Details], "FREIGHT INWARD"),"194C",

### CONTAINSSTRING(Original[Details], "Repairs to Building"),"194C",

### CONTAINSSTRING(Original[Details], "REPAIRS TO MACHINERY"),"194C",

### CONTAINSSTRING(Original[Details], "FREIGHT OUTWARD Expenditure"),"194C",

### CONTAINSSTRING(Original[Details], "Loading and Hamali"),"194C",

### CONTAINSSTRING(Original[Details], "OUTSIDE LABOUR CHARGES"),"194C",

### CONTAINSSTRING(Original[Details], "CONTRACT LABOUR"),"194C",

### CONTAINSSTRING(Original[Details], "Outside Process Charges"),"194C",

### CONTAINSSTRING(Original[Details], "GENERAL REPAIRS"),"194C",

### CONTAINSSTRING(Original[Details], "PROFESSIONAL FEES"),"194J",

### CONTAINSSTRING(Original[Details], "LABOUR CHARGES ( REPAIRS MAINTAINANCE)"),"194C",

### CONTAINSSTRING(Original[Details], "Packing Charges"),"194C",

### CONTAINSSTRING(Original[Details], "CANTEEN EXPENSES"),"194C",

### CONTAINSSTRING(Original[Details], "INSPECTION & TESTING."),"194J",

### CONTAINSSTRING(Original[Details], "Loading and Hamali "),"194C",

### CONTAINSSTRING(Original[Details], "Courier Charges & Postages"),"194C",

### CONTAINSSTRING(Original[Details], "MATERIAL MAINTAINANCE"),"194C",

### CONTAINSSTRING(Original[Details], "FREIGHT OUTWARD Expenditure "),"194C",

### CONTAINSSTRING(Original[Details], "Courier Charges & Postages "),"194C",

### CONTAINSSTRING(Original[Details], "TRAINING Expenditure"),"194J",

### BLANK()

### )

### 194 C 1%

194C\_1%C = CALCULATE(

    SUMX(Original,Original[Basic Amount ] \* 0.01)  ,

    FILTER(

        Original,

        Original[TDS\_Section]="194C" &&

        Original[EntityType] IN {"Sole Proprietery"} &&

        (

            Original[Basic Amount ] > 30000 ||

            CALCULATE(

                SUM(Original[Basic Amount ]),

                VALUES(Original[Supplier Name])

            ) > 100000

        )

    )

)

### 194 C 2%

### 194C\_2%C =

### CALCULATE(

### [Total Basic] \* 0.02,

### FILTER(

### Original,

### Original[TDS\_Section] = "194C" &&

### Original[EntityType] IN {"Company", "Firm"} &&

### (

### Original[Basic Amount ] > 30000 ||

### CALCULATE(

### SUM(Original[Basic Amount ]),

### VALUES(Original[Supplier Name])

### ) > 100000

### )

### )

### 194 J

 CALCULATE([Total Basic]\*0.1,FILTER(Original,Original[TDS\_Section] = "194J" && Original[Basic Amount ] > 30000))

### 194 Q

### 194Q\_C = CALCULATE([Total Basic]\*.001,FILTER(VALUES(Original[Supplier Name]),[Total Basic]>5000000),FILTER(Original,Original[TDS\_Section] = BLANK()))

# GST Calculations

### Total Taxable Value

Total Taxable Value = CALCULATE([Total Basic],FILTER(Original,Original[TaxTotal ] > 0 ))

RCM = CALCULATE([Total Basic],Original[Type\_of\_Bill]="RCM")

TotalTaxOnRelatedParty = CALCULATE(SUM(Original[TaxTotal ]),FILTER(Original,Original[Supplier Name] in RELATEDTABLE('Group Companies')))

# General Measures

CumulativePurchase = CALCULATE([Total Purchase],FILTER(ALL('Date'[Date]),'Date'[Date]<=MAX('Date'[Date])))

MonthalyCumulativePurchase = CALCULATE([Total Purchase],FILTER(ALL('Date'[Date]),'Date'[Date]<=MAX('Date'[Date]) && 'Date'[Date]> MAX('Date'[Date])-30)) **OR**

monthaly Purchase = TOTALMTD([Total Purchase],'Date'[Date])