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Practical Applications of Excel Power Query & Power Pivot

Introduction

It is no hidden fact that Power Query is now recognized as one of the most powerful data transformation tool directly from Microsoft Power Platform.

In real world scenarios just using tool based Power Query doesn't fulfil the business purpose. Therefore there arises the need to learn M-Language that the mashup language in Power Query. This course is focussed towards mastering Power Query along with M-Language so that students acquires ability to solve any given type of complex business problem with minimum difficulty.

Power Pivot in Excel gives the option to use DAX measures which provide extremely powerful ways to analyse data. There are multiple DAX examples covered in the curriculum.

Learning Power Query and Power Pivot will not only help students to manage Excel data well but will also be useful for Microsoft Power BI users, Power BI is the market leader in Business intelligence. As both Power Query and DAX are integral and vital part of Power BI this knowledge comes with double benefits.

Examples and Concepts Coverage

- 001 - Import from File using Standard Options
- 002 - File Content using M Language and others using Standard Options
- 003 - Pull data, Refer to sheet, Promote headers by writing M Language Code
- 004 - Use FilePath from Excel Cell and other activities using M Language
- 005 - Get File Name using Cell Function and Split Text using Standard Options
- 006 - Split Text using M Language and get Folder Path
- 007 - Enter all steps in one line
- 008 - Use Let and In create multiple variables in a single step to get Answer
- 009 - Using M Language and Variables import from File
- 010 Using Standard Options Combine Sheets
- 011 - Use AddColumn to Promote Headers in M Language
- 012C - Seeing Expand Column Syntax and Making our own
- 013C - Import, Append Entirely Using M Language
- 014C - Checking if Missing Columns are Appended Correctly
- 015 - Select only those rows which matches sub text
- 016C - Select Few Columns and Convert Binary to Excel

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- 017C - Expand Table Columns by taking Column Names from sub Table dynamically
- 018C - Join All Files and Sheets Data together
- 019 - Combine and Unpivot using M Language & Standard Options
- 020 - Combine Data from Multiple Files and Multiple Sheets
- 021C - Store Column Names in Variable for better Performance
- 022 - Arrange data
- 023 - Arrange Data using M Language 1
- 023 - Arrange Data using M Language 2
- 024 - Group Data (Simple)
- 025 - Group Data (Multi Column) Sort (Multi Column)
- 026 - Summarize by Total Sales, Sales Count and Show Table
- 027 - Unique List from Table Column
- 028 - Filter data from List
- 029 - Multi Column Filter
- 030 - Sales greater than 500
- 031 - Order Date Year equals to 2017
- 032 - Get Date between 1 Jan 2016 to 31 Jan 2016
- 033 - Get Date from Excel Range
- 034 - Create Button to refresh Data.xlsm
- 035 - Using Or
- 036 - Complex Condition using Or and And
- 037 - Show data only of those customers whose Sales is Greater than 1000 USD
- 038 - Show Employees not Participated
- 039 - Filter data of a given Year
- 040 - Filter Month and Year
- 041 - Without creating table read from the same book, Text not containing Total to be filtered
- 042 - Using Text.Contains, Or, Not
- 043C - Text.Contains with Text.Replace under If
- 044C - FillDown, Reorder Columns, SelectRows
- 045C - Unpivot Columns
- 046C - Join Two tables together
- 047C - Add Column and get values from Table and Select Columns
- 048 - Convert Data one below another to Tabular form
- 049C - Insert Dynamic List to Solution
- 050 - Get data of Columns one below another (Unpivot)
- 051C - Group data to show Filtered Data in Table
- 052 - Show only those columns which are specified in Excel
- 053C - Replace old columns with new Column Names
- 054 - Get First Name from Full Name
- 055C - Separate First and Last Name
- 056 - Join full name along with Salutation

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- 057C - if Title is there add title other wise salutation
- 058 - Table Buffer Random to get random sample data
- 059 - Show latest Invoice date of each customer
- 060 - Auto Detection of Column Data Types
- 061C - Detect Datatype and change Columns Datatype accordingly
- 062 - Multiple Columns Join
- 063C - Join Multiple Columns with Different Column Headers
- 064C - Table1, Table2 and Output Table Headers different and in a Specific order Join
- 065 - Create Function for getting First Name and Last Name
- 066C - Create Function to Club Names
- 067 - Create a Lookup Function in PowerQuery with error handling
- 068 - Return multiple columns from Lookup in current table
- 069C - Create a Function to convert Entire Table Column Data type to Text
- 070 - Combine Months in a list with comma in between
- 071 - Using List.Accumulate to Join Months in List
- 072C - Calculate Future Value using List.Accumulate
- 073 - Join Email Addresses after grouping
- 074C - Show First name, Last name and Email in Angle brackets joined with comma inside groupings
- 075C - Solve the above example using Text.Combine Function instead of List.Accumulate
- 076 - Remove unwanted Characters from Mobile number to enable checking
- 077 - Get Cummulative Sales
- 078 - Get Moving Average
- 079 - Get Bank Balance
- 080 - Using List.Accumulate to get Found Texts separated by comma
- 081 - Find in first List if not found then find in Second List if not found show Otherwise
- 082 - Remove Qtrs Columns Dynamically
- 083 - Totals in Columns Dynamically Logic Lenght of Columns
- 084 - Trim Text using Add Column and TranformColumn
- 085 - Create Function for Trim and use it in TransformColumns
- 086 - Remove Excess Spaces from middle using Recursion
- 087 - Use fnTrim Function Multiple Columns at the same time
- 088 - Divide multiple columns with 1000
- 089 - Remove unwanted Characters from specific columns dynamically
- 090 - Replace one set of characters with another set of characters in Specific columns dynamically
- 091 - Import and clean data from PDF with Advanced List Transformation Methods
- 092 - Expanding List and Showing Permutations
- 093 - Extract only Numbers or Only text, create custom function to check whether is text or Number
- 094 - Pull data from Website and Call and use API
- 095 - Combine Tables from Web and Analyze the Results

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- - 096 - Create Multiple Columns in Table Dynamically
 - 097 - Read data from Website, Transform Showing Year wise Rankings
 - 098 - Multiple two tables together
 - 099 - Get data from Google Sheets
 - 100 - Adding Data to Power Pivot Using Implicit measures
 - 101 - Using Explicit Measure
 - 102 - Distinct Count, Sum, Average, Min & Max DAX Functions
 - 103 - Get FY Qtrs using Switch DAX, Convert Text Column in Number Column
 - 104 - Using SumX Measure and comparing it with Column Function
 - 105 - Create Calendar Table, SamePeriodLastYear and Calculate
 - 106C - Filter data in Measure to hide 2020 Year
 - 107C Creating & Managing KPIs