

DATA ANALYTICS

MICROSOFT EXCEL

EXCEL INTRODUCTION

- EXCEL INTERFACE
- SHORTCUT KEYS
- CUSTOMIZING EXCEL
- PASTE SPECIAL

FORMULA REFERENCE

- RELATIVE
- ABSOLUTE
- MIXED

FORMATTING - CUSTOM & CONDITIONAL

- CUSTOM FORMATTING
- CONDITIONAL FORMATTING-READYMADE
- CUSTOMIZED CONDITIONAL FORMATTING

EXCEL BUILT IN LOGICAL FUNCTION

- IF, NESTED IF, IFS
- OR, AND, XOR
- IFERROR, IFNA, SWITCH

EXCEL BUILT IN MATH FUNCTION

- SUMIF, SUMIFS
- ABS, ROUND, ROUND UP, ROUND DOWN
- MOD, MODE, FLOOR, CEILING

EXCEL BUILT IN TEXT FUNCTION

- LEFT, RIGHT, MID, EXACT, FIND, REPLACE
- SUBSTITUTE, TEXTJOIN, TEXTAFTER,
- TEXTBEFORE, TEXTSPLIT, VALUETOTEXT

EXCEL BUILT IN DATE & TIME FUNCTION

- DATE, TODAY, NOW, EDATE, EOMONTH
- WEEKDAY, WEEKDAY.INTL, WORKDAY,
- WORKDAY.INTL, NETWORKDAYS,
- NETWORKDAYS.INTL, DATEVALUE, TIMEVALUE, DATEDIF

EXCEL BUILT IN STATISTICAL FUNCTION

- AVERAGE, AVERAGEIF, AVERAGEIFS
- COUNT, COUNTA, COUNTIF, COUNTIFS
- MAX, MAXA, MAXIFS
- MIN, MINA, MINIFS
- RANK, LARGE, SMALL, FREQUENCY

WORKGROUP COLLABORATIONS

- PRINTING, PROTECTING, SHARING
- FORMULA AUDITING, CTRL+G
- NAMING RANGE, HYPERLINK

SORTING AND FILTERING

- ADVANCED SORTING
- AUTO FILTER & ADVANCED FILTERS

SUMMARIZING DATA

- SUBTOTAL
- TEXT TO COLUMN
- FLASH FILL

DATA VALIDATION

- NUMBER, DATE & TIME VALIDATION
- TEXT AND LIST VALIDATION
- CUSTOM VALIDATIONS
- DEPENDENT DROPDOWN LIST

DATA ANALYSIS TOOL

- IMPORTING DATA
- HYPERLINK, DATA CONSOLIDATION
- GOAL SEEK, SOLVER TOOL
- FINANCIAL FUNCTION - PMT, IPMT, PPMT, FV
- SCENARIO MANAGER, DATA TABLES

ADVANCED ARRAY FUNCTIONS

- ARRAYS (USING CTRL+SHIFT+ENTER)
- ADVANCED USE OF FORMULAS WITH ARRAY
- SUMPRODUCT & AGGREGATE FUNCTION

ADVANCED LOOKUP FUNCTIONS

- VLOOKUP, DOUBLE VLOOKUP , HLOOKUP
- TWO LOOKUP VALUE, VLOOKUP WITH OTHER
- HLOOKUP & LOOKUP
- MATCH, VLOOKUP & MATCH
- INDEX-ARRAY FORMAT
- INDEX & MATCH
- INDEX-REFERENCE FORMAT
- IMAGE LOOKUP
- ONE WAY, TWO WAY, THREE WAY LOOKUP
- CHOOSE+VLOOKUP
- REVERSE LOOKUP
- VLOOKUP & INDIRECT
- VLOOKUP+OFFSET
- DYNAMIC RAGE
- OFFSET & INDEX
- DUPLICATE VLOOKUP
- CASE SENSITIVE VLOOKUP
- V PARTIAL, DYNAMIC LIST
- MASTERING VLOOKUP-REVISION

PIVOT TABLE

- INTRODUCTION TO PIVOTTABLES
- HOW TO AUTOMATICALLY UPDATE PIVOT TABLES
- TEXT & CUSTOM FILTERS
- GROUPING AND PIVOT CHARTS
- VALUE FIELD SETTINGS
- SHOW VALUES AS
- CALCULATED FIELDS, CALCULATED ITEMS
- SLICERS, FILTERS, AND TIMELINES
- GETPIVOTDATA FUNCTION
- CREATING PIVOT TABLES
- MANY PIVOTTABLES BASED ON A FILTER
- DATA MODEL
- MULTIPLE SLICERS WITH PIVOT TABLES

CHARTS AND SLICERS

- CREATING A CHART WITH THE 2D OR 3D
- VARIOUS CHARTS
- DOUGHNUT CHARTS, SPEEDO METER CHART
- CREATE PROGRESS , BULLET CHART

EXCEL DASHBOARD

- PLANNING A DASHBOARD
- ADDING TABLES AND CHARTS DASHBOARD
- LINKING WORKSHEETS AND WORKBOOK
- INTERACTIVE DASHBOARD
- FORM CONTROLS
- FORM CONTROLS FOR REPORTS AUTOMATION

NEW FUNCTION IN EXCEL OFFICE 365

- TREE MAP, WATERFALL, SUNBURST
- FORECASTSHEET
- SPARKLINES- - LINE, COLUMN & WIN/LOSS
- USING 3-D MAP

NEW FUNCTION IN EXCEL OFFICE 365

- XLOOKUP, XMATCH, SORT,
- SORTBY,SEQUENCE, FILTER,
- RANDARRAY, UNIQUE,
- LET,LAMBDA ETC
- VSTACK, HSTACK, BYCOL, BYROW, PIVOTBY

VBA MACRO

- RECORDING MACRO
- EDITING AND DELETING MACRO
- USE RELATIVE REFERENCES

INTRODUCTION TO POWER BI

- INSTALLING POWER BI DESKTOP
- GETTING TO KNOW THE INTERFACE
- POWER BI FREE VS. PRO VS. PREMIUM
- POWER BI KEY COMPONENTS
- QUERY EDITOR INTERFACE

POWER QUERY - IMPORT DATA

- EXCEL, CSV, WEB, PDF
- MS ACCESS, SQL DEVELOPER, MY SQL
- XML, JSON, VARIOUS FORMATS
- CONNECTING TO A FOLDER

POWER QUERY - DATA TRANSFORMATION

- BASIC TRANSFORMATIONS
- ADD COLUMN, CUTOFF COLUMN
- INDEX COLUMN, CONDITIONAL COLUMN
- PIVOTING AND UN PIVOTING COLUMNS
- DUPLICATING VS REFERENCING QUERIES
- MERGE QUERY
- APPEND QUERY
- JOIN KIND
- FACT DIMENSION MODEL
- ADVANCE EDITOR
- ETL OPERATIONS WITH POWER QUERY
- GROUP BY AND ADVANCED OPTIONS
- AGGREGATION WITH POWER QUERY

POWER QUERY - M LANGUAGE

- M LANGUAGE SEMANTICS & SYNTAX
- TABLE FUNCTIONS
- RECORD FUNCTIONS
- TEXT FUNCTIONS
- LIST FUNCTIONS
- DATE & TIME FUNCTIONS
- ADVANCE EDITS AND PARAMETERS

DATA MODELING IN POWER BI

- WHAT IS DATA MODELING
- CREATING MODEL RELATIONSHIP
- DATA TABLE VS LOOKUP TABLE
- RELATIONSHIP CARDINALITY
- PRIMARY KEY VS FOREIGN KEY
- ONE TO ONE RELATIONSHIP
- ONE TO MANY RELATIONSHIP
- MANY TO MANY RELATIONSHIP
- BAD CARDINALITY
- FILTER DIRECTION
- EDITING RELATIONSHIPS
- DATA MODEL BEST PRACTICE

DAX (DATA ANALYSIS EXPRESSION)

- WHAT IS DAX
- CALCULATED COLUMNS
- CALCULATED MEASURES
- ROW CONTEXT & FILTER CONTEXT
- DAX FUNCTIONS
- CALENDER & CALENDERAUTO FUNCTION
- SUMX, COUNTX, MAXX & AVERAGEX
- DATE TABLE SCRIPT, COUNTROWS
- FILTER FUNCTION
- ALL, ALLEXCEPT, ALLSELECTED
- ALLCROSSFILTERED
- CALCULATE, CALCULATETABLE
EARLIER, KEEPFILTER

DAX (DATA ANALYSIS EXPRESSION)

- TIME INTELLIGENCE FUNCTION
- DATEADD, DATESBETWEEN,
- DATESYTD, DATESMTD, DATESQTD
- TOTALMTD, TOTALYTD, TOTALQTD
- RANKX, TOPN, SAMEPERIODLASTYEAR
- RELATED, CLOSINGBALANCEYEAR
- LOGICAL FUNCTIONS - IF, ELSIF, TEXT

ADVANCED DAX

SCALAR FUNCTIONS

- ROUNDING FUNCTIONS
- INFORMATION FUNCTIONS
- CONVERSION FUNCTIONS
- LOGICAL FUNCTIONS

ADVANCED CALCULATE

- EXPENDED TABLES
- CONTEXT TRANSITION
- CALCULATE MODIFIERS
- REMOVEFILTERS, KEEPFILTERS

TABLE AND FILTER FUNCTIONS

- DISTINCT, VALUES, SELECTED VALUES
- SELECT COLUMNS, ADD COLUMNS,
- SUMMARIZE, DATA TABLE, GENERATESERIES

CALCULATED TABLE JOINS

- CROSS JOIN, UNION,
- EXCEPT, INTERSECT

RELATIONSHIP FUNCTIONS

- RALATED, RELATED TABLE
- USER RELATIONSHIP, TREATAS

ITERATOR FUNCTIONS

- CONCATENATEX, RANKX

ADVANCED TIME INTELLIGENCE

- WEEK BASED CALCULATIONS
- FISCAL PERIOD TO DATE

DATA VISUALIZATION

- UNDERSTANDING THE INTERFACE
- CREATING OUR FIRST VISUALIZATIONS
- EDITING INTERACTIONS, ADDING TOOLTIPS
- UNDERSTANDING HIERARCHIES
- ADDING DRILL-DOWN
- FORMATTING CHARTS AND SORTING
- ESSENTIAL FORMATTING SETTING

DATA VISUALIZATION

- TABLE VIEW VS. MATRIX VIEW
- LINE, BAR, COLUMN, TREE MAP
- PIE, DOUGHNUT
- TOOLTIPS – ON HOVER TEXT
- SLICERS
- ADDING TREE MAPS AND TABLES
- APPLYING DIFFERENT FILTER TYPES
- CREATING MULTI-ROW CARDS
- VISUALIZATIONS AND WATERFALLS

ADVANCED VISUALIZATION

- KPI & GAUGE CHART
- FORECAST, TRENT-LINE, MAP VISUALS
- CUSTOM VISUALS
- SHOW/EXPAND NEXT LEVEL
- FILTER LEVEL, REPORT LEVEL, PAGE LEVEL

POWER BI SERVICE

- POWER BI SERVICE ARCHITECETURE
- POWER BI CLOUD COMPONENTS
- REPORT PUBLISH & REPORT UPLOADS
- DASHBOARD CREATION AND USES
- ADDING TILES TO DASHBOARD
- PINNING VISUALS AND REPORT PAGES

POWER BI SERVICE

- UNDERSTANDING GATEWAYS
- GATEWAY TYPES
- DATA REFERESH
- STREAMING DATA SET
- POWER BI MOBILE
- MANAGE ALERTS
- GENERATE QUICK INSIGHTS
- ROW LEVEL SECURITY

POWER BI REPORT SERVER & POWERAPP

- INSTALL, CONFIGURE REPORT SERVER
- REPORT BUILDER FOR REPORT SERVER
- DESINGNING PAGINATED REPORT
- BASIC POWERAPP CONCEPT
- CANVAS APPS | CUSTOMIZATION

REALTIME PROJECT

- PROJECT REQUIREMENT ANALYSIS
- IMPLEMENTING SDLC PHASES
- REQUIREMENT GATHERING
- PBIX REPORT DESIGN

SQL FOR DATA QUERYING

- Database fundamentals (RDBMS concepts)
- SELECT, WHERE, GROUP BY, HAVING, JOINS
- Window functions
- Writing optimized queries
- Hands-on projects with real datasets



PYTHON FOR DATA ANALYSIS

- Python Basics: Data types, loops, functions
- NumPy, Pandas for data wrangling
- Matplotlib & Seaborn for visualization
- Jupyter Notebooks and real-time use cases



Power BI

