

VERSION

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TESBO COURSE

ELYSIUM
ACADEMY
TESBO
DATA
ANALYSIST
**ELYSIUM
ACADEMY
TESBO
DATA
ANALYSIST**

SR. CODE

EAPL/TESBO/TSTC04

COURSE CODE

EATDA

SUB CATEGORY

DATA SCIENCE AND ANALYTICS



TOTAL DURATION
180
HOURS



THEORY TAKEN
50
HOURS



PRACTICAL TAKEN
130
HOURS

ELYSIUM
ACADEMY
TESBO
DATA
ANALYSIST

COURSE DESCRIPTION



A primary course for prospective data scientists who are currently using Microsoft Excel, Matlab, Mathematical, or SAS for the numerical analysis of huge data sets is Introduction to R. The course equips the students with the skills necessary to use more robust Open Source settings, particularly the R programming language. Many data analysts and data scientists use R because it is a functional programming environment that is simple to use for non-programmers and organically extends a skill set that is typical of both of these groups of people. . It is the ideal tool when one has a statistical, numerical, or probabilities-based problem based on actual facts and they have exhausted the capabilities of other tools. This foundational course includes all subject needed to get candidates started using R.

COURSE GOALS



- Master the use of the R and RStudio interactive environment.
- Expand R by installing R packages.
- Explore and understand how to use the R documentation.
- Read Structured Data into R from various sources.
- Understand the different data types in R.
- Understand the different data structures in R.

FUTURE SCOPE



The most often used language for data scientists and statisticians is R. R is thought to be used by about two million people. R receives the majority of its contributions from data science course technology users worldwide. It is regarded as a turning point because of all the advantages it offers. R programming has established itself as one of the top tools for data analysis. Thus, we can conclude that R programming has a bright future. It is popular right now because it is a beginner-friendly programming language.

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CHAPTER

1. R Introduction

- 1.1. Introduction to R Studio
- 1.2. R Installation
- 1.3. R Advantage & Disadvantage
- 1.4. R Hadoop Integration
- 1.5. R Packages
- 1.6. List of R Packages

2. R Basics

- 2.1. Basic Syntax
- 2.2. Comments
- 2.3. Data Types
- 2.4. Data Structures
- 2.5. Variables
- 2.6. Keywords
- 2.7. Operators
- 2.8. Input/Output

3. Variables

- 3.1. R variables
- 3.2. Scope of Variables
- 3.3. Dynamic Scoping
- 3.4. Lexical Scoping



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CHAPTER

1. Control Statements

- 1.1. R If Statement
- 1.2. If-else Statement
- 1.3. else if Statement
- 1.4. R Switch Statement
- 1.5. R Next Statement
- 1.6. R Break Statement

2. R Loops

- 2.1. R For Loop
- 2.2. R Repeat Loop
- 2.3. R While Loop

3. R Functions

- 3.1. Create Functions
- 3.2. Function Arguments
- 3.3. Types of function
- 3.4. Recursive Function
- 3.5. Conversion Functions
- 3.6. local and global variable


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CHAPTER

1. Data Structures

- 1.1. Strings
- 1.2. Lists
- 1.3. Arrays
- 1.4. Matrix
- 1.5. Data Frame


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2. Object-Oriented Programming

- 2.1. Classes
- 2.2. Objects
- 2.3. Encapsulation
- 2.4. Polymorphism
- 2.5. Inheritance
- 2.6. Abstraction
- 2.7. Looping Over Objects
- 2.8. S3 class
- 2.9. Explicit
- 2.10. R Debugging
- 2.11. Error Handling

3. File Handling

- 3.1. Reading Files
- 3.2. Writing Files
- 3.3. Working with Binary Files

4. Data Interfaces

- 4.1. R CSV File
- 4.2. R Excel File
- 4.3. R Binary File
- 4.4. R JSON File
- 4.5. R XML File
- 4.6. R Database

5. Data Visualization

- 5.1. R Data Visualization
- 5.2. R Pie Charts

- 5.4. R Boxplot
- 5.5. R Histogram
- 5.6. R Line Graphs
- 5.7. R Scatterplots

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CHAPTER

1. Manipulating Data

- 1.1. Selecting rows/observations
- 1.2. Selecting columns/fields
- 1.3. Merging data
- 1.4. Relabeling the column names
- 1.5. Converting variable types
- 1.6. Data sorting
- 1.7. Data aggregation

2. R Regression

- 2.1. Linear Regression
- 2.2. Multiple Regression
- 2.3. Logistic Regression
- 2.4. Poisson Regression

3. R Statistics

- 3.1. Normal Distribution
- 3.2. Binomial Distribution
- 3.3. R Classification
- 3.4. Time Series Analysis
- 3.5. R Random Forest
- 3.6. T-Test in R Chi-Square Test



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CHAPTER

1. Introduction to Tableau

- 1.1. What is Tableau
- 1.2. Architecture of Tableau
- 1.3. Features of Tableau
- 1.4. Installation of Tableau Desktop/Public
- 1.5. Navigation
- 1.6. Design Flow
- 1.7. File System
- 1.8. Data Types

2. Data Sources

- 2.1. Data Source connection
- 2.2. Import Excel File
- 2.3. Data Cleaning
- 2.4. Join Database
- 2.5. Data Blending
- 2.6. Split the Text to columns
- 2.7. Displaying data in worksheet
- 2.8. Adding, Renaming and Duplicating

3. Data Visualization/Graph

- 3.1. Pivot table and Heat Map
- 3.2. Highlight Table
- 3.3. Bar Chart
- 3.4. Line Chart
- 3.5. Area Chart
- 3.6. Pie Chart
- 3.7. Scatter Plot
- 3.8. Word Cloud



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- 3.9. Tree Map
- 3.10. Blended Axis
- 3.11. Dual Axis

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CHAPTER

1. Advance Data Visualization/Graph

- 1.1. Bar Chart
 - 1.1.1. Stacked Bar Chart
 - 1.1.2. Bar in Bar Chart
 - 1.1.3. Combo Chart
- 1.2. Line Chart
 - 1.2.1. Single Axis
 - 1.2.2. Dual Axis
 - 1.2.3. Blended Axis
- 1.3. Dual Axis Chart
 - 1.3.1. Line
 - 1.3.2. Bar
 - 1.3.3. Lollipop Chart
 - 1.3.4. Donut
 - 1.3.5. Bullet Graph
 - 1.3.6. Histogram Chart
 - 1.3.7. Animated Graph



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CHAPTER

1. Building View Advance Map Option

- 1.4. Explain latitude and longitude
- 1.5. Default location/Edit locations
- 1.6. Symbol map & Filled Map
- 1.7. Map Layer
- 1.8. Image in map
- 1.9. Map option

2. Data Preparation

- 2.1. Connecting to different Data Source
 - 2.1.1. Excel
 - 2.1.2. CSV
 - 2.1.3. SQL Server
- 2.2. Live vs Extract Connection
 - 2.2.1. Creating Extract
 - 2.2.2. Refreshing Extract
 - 2.2.3. Increment Extract
 - 2.2.4. Refreshing Live
 - 2.2.5. Data Source Editor
- 2.3. Pivoting and splitting
- 2.4. Data Interpreter: Clean Dirty Data
- 2.5. TWB vs TWBX
- 2.6. How to create a packaged workbook
- 2.7. Difference between .tde and .hyper file


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CHAPTER

1. Advanced Data Preparation

1.1. Joins

1.1.1. Inner

1.1.2. Left

1.1.3. Right

1.1.4. Outer

1.2. Complex Join

1.3. Referential Integrity

1.4. Union

1.5. Data Blending and when required

1.6. Cross DB Join

2. Data Visualization Principles

2.1. Why visualization came into the picture?

2.2. Importance of visualizing data

2.3. Poor visualization vs Perfect visualization

2.4. Principal of visualization

2.5. Goal of Data visualization

3. Basic Filter/Managing your Data

3.1. Filter

3.1.1. Types of filter

3.1.2. Quick filter

3.1.3. Global filter

3.1.4. Normal filter

3.1.5. Relevant filter

3.1.6. Dimension filter

3.1.7. Measure filter

3.1.8. Condition based filter



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3.1.9. Advanced filter using wild card

3.1.10. Right click filtering

3.2. Top & Bottom N Filter

3.3. Filtering Order of Operation

3.3.1. Extract Filter

3.3.2. Data Source Filter

3.3.3. Context Filter

4. Building Interactive Dashboard/ Advanced Filtering and Action

4.1. Action Filter

4.1.1. Filter

4.1.2. Highlight

4.1.3. Go to URL

4.1.4. Go to Sheet

4.1.5. Set Action

4.1.6. Parameter Action

4.2. Action Jumps

4.3. Viz in Tool Tip

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CHAPTER

1. Basic Calculation

1.1. Sorting

1.2. Calculation – String, Basic, Date and Logic

1.3. Continuous and Discrete data

1.4. Working with Dates

1.5. Creating calculated Fields



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1.5.1. Logical Function

1.5.2. Case if Function

1.5.3. ZN Function

1.5.4. Else if Function

1.5.5. Ad-hoc Function

1.6. Manipulating Text – left and right function

2. Advance Calculation

2.1. Table Calculation

2.1.1. Running total

2.1.2. Percent

2.1.3. Percent total

2.1.4. Year over Year Growth

2.2. LOD

2.2.1. Include

2.2.2. Exclude

2.2.3. Fixed

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CHAPTER

1. Grouping Data/Dynamic Representation

1.1. Groups

1.2. Sets

1.2.1. In/Out Sets

1.2.2. Combined Sets

1.3. Top and Bottom in Single view Parameters

1.4. Dynamic Measure

1.5. Dynamic Dimension


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- 1.6. Hierarchies
- 1.7. Bins
- 1.8. Combined Field

2. Analytical Topic/Capability

- 2.1. Trend Line
- 2.2. Forecasting
- 2.3. Cluster
- 2.4. Reference Line
- 2.5. Box Plot(Understanding Outliers in Data)
- 2.6. Distribution Band
- 2.7. Reference Band

3. Formatting

- 3.1. Size
- 3.2. Updating Axis
- 3.3. Colors
- 3.4. Borders
- 3.5. Transparency
- 3.6. Chart Line
- 3.7. Reference Line
- 3.8. Mark Label
- 3.9. Annotation
- 3.10. Responsive Tool Tip

4. Dashboard Design

- 4.1. Canvas Selection
- 4.2. Tiled Object
- 4.3. Floating Object

- 4.4. Pixel Perfect Alignment
- 4.5. Summary Box
- 4.6. Chart Titles and Captions
- 4.7. Adding Image and Text
- 4.8. Adding Shading
- 4.9. Adding Separator Lines
- 4.10. Dynamic Chart Title
- 4.11. Information Icons
- 4.12. Creating a Story

5. Sharing Your Dashboard

- 5.1. Publishing to PDF
- 5.2. Exporting to Pivot Table and Images
- 5.3. Exporting Packaged workbooks
- 5.4. Tableau Reader
- 5.5. Tableau Online
- 5.6. Tableau Server
- 5.7. Tableau Public
- 5.8. Version Control

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CHAPTER

1. Introduction To Power Bi

- 1.1. Introduction to Power BI - Need, Importance
- 1.2. Power BI - Advantages and Scalable Options
- 1.3. History - Power View, Power Query, Power Pivot
- 1.4. Power BI Data Source Library and DW Files



- 1.5. Cloud Collaboration and Usage Scope
- 1.6. Business Analyst Tools, MS Cloud Tools
- 1.7. Power BI Installation and Cloud Account
- 1.8. Power BI Cloud and Power BI Service
- 1.9. Power BI Architecture and Data Access
- 1.10. OnPremise Data Acces and Microsoft On Drive
- 1.11. Power BI Desktop - Instalation, Usage
- 1.12. Sample Reports and Visualization Controls
- 1.13. Power BI Cloud Account Configuration
- 1.14. Understanding Desktop & Mobile Editions
- 1.15. Report Rendering Options and End User Access
- 1.16. Power View and Power Map. Power BI Licenses

2. CREATING POWER BI REPORTS, AUTO FILTERS

- 2.1. Report Design with Legacy & .DAT Files
- 2.2. Report Design with Databse Tables
- 2.3. Understanding Power BI Report Designer
- 2.4. Report Canvas, Report Pages: Creation, Renames
- 2.5. Report Visuals, Fields and UI Options
- 2.6. Experimenting Visual Interactions, Advantages
- 2.7. Reports with Multiple Pages and Advantages

2.8. Pages with Multiple Visualizations.

Data Access

2.9. PUBLISH Options and Report Verification
in Cloud

2.10. "GET DATA" Options and Report Fields,
Filters

2.11. Report View Options: Full, Fit Page,
Width Scale

2.12. Report Design using Databases &
Queries

2.13. Query Settings and Data Preloads

2.14. Navigation Options and Report Refresh

2.15. Stacked bar chart, Stacked column chart

2.16. Clustered bar chart, Clustered column chart

2.17. Adding Report Titles. Report Format Options

2.18. Focus Mode, Explore and Export Settings

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CHAPTER

1. REPORT VISUALIZATIONS and PROPERTIES

1.1. Power BI Design: Canvas, Visualizations
and Fields

1.2. Import Data Options with Power BI Model,
Advantages

1.3. Direct Query Options and Real-time
(LIVE) Data Access

1.4. Data Fields and Filters with Visualizations

1.5. Visualization Filters, Page Filters,
Report Filters



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- 1.6. Conditional Filters and Clearing. Testing Sets
- 1.7. Creating Customised Tables with Power BI Editor
- 1.8. General Properties, Sizing, Dimensions, and Positions
- 1.9. Alternate Text and Tiles. Header (Column, Row) Properties
- 1.10. Grid Properties (Vertical, Horizontal) and Styles
- 1.11. Table Styles & Alternate Row Colors - Static, Dynamic
- 1.12. Sparse, Flashy Rows, Condensed Table Reports. Focus Mode
- 1.13. Totals Computations, Background. Borders Properties
- 1.14. Column Headers, Column Formatting, Value Properties
- 1.15. Conditional Formatting Options - Color Scale
- 1.16. Page Level Filters and Report Level Filters
- 1.17. Visual-Level Filters and Format Options
- 1.18. Report Fields, Formats and Analytics
- 1.19. Page-Level Filters and Column Formatting, Filters
- 1.20. Background Properties, Borders and Lock Aspect

2. CHART AND MAP REPORT PROPERTIES

- 2.1. chart report types and properties

- 2.2. stacked bar chart, stacked column chart
- 2.3. clustered bar chart, clustered column chart
- 2.4. 100% stacked bar chart, 100% stacked column chart
- 2.5. line charts, area charts, stacked area charts
- 2.6. line and stacked row charts
- 2.7. line and stacked column charts
- 2.8. waterfall chart, scatter chart, pie chart
- 2.9. Field Properties: Axis, Legend, Value, Tooltip
- 2.10. Field Properties: Color Saturation, Filters Types
- 2.11. Formats: Legend, Axis, Data Labels, Plot Area
- 2.12. Data Labels: Visibility, Color and Display Units
- 2.13. Data Labels: Precision, Position, Text Options
- 2.14. Analytics: Constant Line, Position, Labels
- 2.15. Working with Waterfall Charts and Default Values
- 2.16. Modifying Legends and Visual Filters - Options
- 2.17. Map Reports: Working with Map Reports
- 2.18. Hierarchies: Grouping Multiple Report Fields
- 2.19. Hierarchy Levels and Usages in Visualizations

2.20. Preordered Attribute Collection -
Advantages

2.21. Using Field Hierarchies with Chart
Reports

2.22. Advanced Query Mode @ Connection
Settings - Options

2.23. Direct Import and In-memory Loads,
Advantages

3. HIERARCHIES and DRILLDOWN REPORTS

3.1. Hierarchies and Drilldown Options

3.2. Hierarchy Levels and Drill Modes - Usage

3.3. Drill-thru Options with Tree Map and Pie
Chart

3.4. Higher Levels and Next Level Navigation
Options

3.5. Aggregates with Bottom/Up Navigations.

3.6. Multi Field Aggregations and Hierarchies in
Power BI

3.7. DRILLDOWN, SHOWNEXTLEVEL,
EXPANDTONEXTLEVEL

3.8. SEE DATA and SEE RECORDS Options.
Differences

3.9. Toggle Options with Tabular Data. Filters

3.10. Drilldown Buttons and Mouse Hover
Options @ Visuals

3.11. Dependant Aggregations, Independent
Aggregations

3.12. Automated Records Selection with
Tabular Data

3.13. Report Parameters : Creation and Data Type

3.14. Available Values and Default values. Member Values

3.15. Parameters for Column Data and Table / Query Filters

3.16. Parameters Creation - Query Mode, UI Option

3.17. Linking Parameters to Query Columns - Options

3.18. Edit Query Options and Parameter Manage Entries

3.19. Connection Parameters and Dynamic Data Sources

3.20. Synonyms - Creation and Usage Options

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CHAPTER

1. POWER QUERY & M LANGUAGE

1.1. Understanding Power Query Editor - Options

1.2. Power BI Interface and Query / Dataset Edits

1.3. Working with Empty Tables and Load / Edits

1.4. Empty Table Names and Header Row Promotions

1.5. Undo Headers Options. Blank Columns Detection

1.6. Data Imports and Query Marking in Query Editor

1.7. JSON Files & Binary Formats with Power Query



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1.8. JavaScript Object Notation - Usage with M Lang.

1.9. Applied Steps and Usage Options. Revert Options

1.10. Creating Query Groups and Query References. Usage

1.11. Query Rename, Load Enable and Data Refresh Options

1.12. Combine Queries - Merge Join and Anti-Join Options

1.13. Combine Queries - Union and Union All as New Dataset

1.14. M Language : NestedJoin and JoinKind Functions

1.15. REPLACE, REMOVE ROWS, REMOVE COL, BLANK - M Lang

1.16. Column Splits and FilledUp / FilledDown Options

1.17. Query Hide and Change Type Options. Code Generation

2. POWER QUERY & M LANGUAGE - Part 2

2.1. Invoke Function and Freezing Columns

2.2. Creating Reference Tables and Queries

2.3. Detection and Removal of Query Datasets

2.4. Custom Columns with Power Query

2.5. Power Query Expressions and Usage

2.6. Blank Queries and Enumeration Value Generation

- 2.7. M Language Semantics and Syntax.
Transform Types**
- 2.8. IF..ELSE Conditions, TransformColumn()
Types**
- 2.9. RemoveColumns(), SplitColumns(),
ReplaceValue()**
- 2.10. Table.Distinct Options and GROUP BY
Options**
- 2.11. Table.Group(), Table.Sort() with Type
Conversions**
- 2.12. PIVOT Operation and Table.Pivot().
List Functions**
- 2.13. Using Parameters with M Language
(Power Query Editor)**
- 2.14. Advanced Query Editor and Parameter
Scripts**
- 2.15. List Generation and Table Conversion
Options**
- 2.16. Aggregations using PowerQuery &
Usage in Reports**
- 2.17. Report Generation using Web Pages &
HTML Tables**
- 2.18. Reports from Page collection with
Power Query**
- 2.19. Aggregate and Evaluate Options with
M Language**
- 2.20. Creating high-density reports,
ArcGIS Maps, ESRI Files**
- 2.21. Generating QR Codes for Reports**
- 2.22. Table Bars and Drill Thru Filters**

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CHAPTER

1. Dax Expressions - Level 1

- 1.1. Purpose of Data Analysis Expressions (DAX)
- 1.2. Scope of Usage with DAX. Usability Options
- 1.3. DAX Context : Row Context and Filter Context
- 1.4. DAX Entities : Calculated Columns and Measures
- 1.5. DAX Data Types : Numeric, Boolean, Variant, Currency
- 1.6. Date time Data Tyke with DAX. Comparison with Excel
- 1.7. DAX Operators & Symbols. Usage. Operator Priority
- 1.8. Parenthesis, Comparison, Arithmetic, Text, Logic
- 1.9. DAX Functions and Types: Table Valued Functions
- 1.10. Filter, Aggregation and Time Intelligence Functions
- 1.11. Information Functions, Logical, Parent-Child Functions
- 1.12. Statistical and Text Functions. Formulas and Queries
- 1.13. Syntax Requirements with DAX. Differences with Excel
- 1.14. Naming Conventions and DAX Format Representation
- 1.15. Working with Special Characters in Table Names


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2. Dax Expressions - Level 2

- 2.1. YTD, QTD, MTD Calculations with DAX
- 2.2. DAX Calculations and Measures
- 2.3. Using TOPN, RANKX, RANK.EQ
- 2.4. Computations using STDEV & VAR
- 2.5. SAMPLE Function, COUNTALL, ISERROR
- 2.6. ISTEXT, DATEFORMAT, TIMEFORMAT
- 2.7. Time Intelligence Functions with DAX
- 2.8. Data Analysis Expressions and Functions
- 2.9. DATESYTD, DATESQTD, DATESMTD
- 2.10. ENDOFYEAR, ENDOFQUARTER, ENDOFMONTH
- 2.11. FIRSTDATE, LASTDATE, DATESBETWEEN
- 2.12. CLOSINGBALANCEYEAR, CLOSINGBALANCEQTR
- 2.13. SAMEPERIOD and PREVIOUSMONTH, QUARTER
- 2.14. KPIs with DAX. Vertipaq Queries in DAX
- 2.15. IF..ELSEIF.. Conditions with DAX
- 2.16. Slicing and Dicing Options with Columns, Measures
- 2.17. DAX for Query Extraction, Data Mashup Operations
- 2.18. Calculated Columns and Calculated Measures with DAX

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CHAPTER

1. PowerBi Deployment & Cloud

- 1.1. PowerBI Report Validation and Publish
- 1.2. Understanding PowerBI Cloud Architecture
- 1.3. PowerBI Cloud Account and Workspace
- 1.4. Reports and DataSet Items Validation
- 1.5. Dashboards and Pins - Real-time Usage
- 1.6. Dynamic Data Sources and Encryptions
- 1.7. Personal and Organizational Content Packs
- 1.8. Gateways, Subscriptions, Mobile Reports
- 1.9. Data Refresh with Power BI Architecture
- 1.10. PBIX and PBIT Files with Power BI - Usage
- 1.11. Visual Data Imports and Visual Schemas
- 1.12. Cloud and On-Premise Data Sources
- 1.13. How PowerBI Supports Data Model?
- 1.14. Relation between Dashboards to Reports
- 1.15. Relation between Datasets to Reports
- 1.16. Relation between Datasets to Dashboards
- 1.17. Page to Report - Mapping Options
- 1.18. Publish Options and Data Import Options
- 1.19. Need for PINS @ Visuals and PINS @ Reports
- 1.20. Need for Data Streams and Cloud Intergration



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2. Power Bi Cloud Operations

- 2.1. Report Publish Options and Verifications**
- 2.2. Working with Power BI Cloud Interface & Options**
- 2.3. Navigation Paths with "My Workspace" Screens**
- 2.4. FILE, VIEW, EDIT REPORTS, ACCESS, DRILLDOWN**
- 2.5. Saving Reports into pdf, pptx, etc. Report Embed**
- 2.6. Report Rendering and EDIT, SAVE, Print Options**
- 2.7. Report PIN and individual Visual PIN Options**
- 2.8. Create and Use Dashboards. Menu Options**
- 2.9. Goto Dashboard and Goto LIVE Page Options**
- 2.10. Operations on Pinned Reports and Visuals**
- 2.11. TITLE, MEDIA, USAGE METRICS & FAVOURITES**
- 2.12. SUBSCRIPTION Options and Reports with Mobile View**
- 2.13. Options with Report Page : Print and Subscribe**
- 2.14. Report Actions: USAGE METRICS, ANALYSE IN EXCEL**
- 2.15. Report Actions: RELATED ITEMS, RENAME, DELETE**

2.16. Dashboard Actions: METRICS, RELATED ITEMS

2.17. Dashboard Actions: SETTINGS FOR Q & A, DELETE

2.18. PIN Actions: METRICS, SHARE, RELATED ITEMS

2.19. PIN Actions: SETTINGS FOR Q & A, DELETE

2.20. EDIT DASHBOARD (CLOUD), On-The-Fly Reports

2.21. Dataset Actions: CREATE REPORT, REFRESH

2.22. SCHEDULED REFRESH & RELATED ITEMS

2.23. Dashboard Integration with Apps in Power BI

3. Improving Power Bi Reports

3.1. Publish PowerBI Report Templates

3.2. Import and Export Options with Power BI

3.3. Dataset Navigations and Report Navigations

3.4. Quick Navigation Options with "My Workspace"

3.5. Dashboards, Workbooks, Reports, Datasets

3.6. Working with MY WORK SPACE group

3.7. Installing the Power BI Personal Gateway

3.8. Automatic Refresh - Possible Issues

3.9. Adding images to the dashboards

3.10. Reading & Editing Power BI Views

3.11. Power BI Templates (pbit)- Creation, Usage

3.12. Managing report in Power BI Services

3.13. PowerBI Gateway - Download and Installation

3.14. Personal and Enterprise Gateway Features

3.15. PowerBI Settings : Dataset - Gateway Integration

3.16. Configuring Dataset for Manual Refresh of Data

3.17. Configuring Automatic Refresh and Schedules

3.18. Workbooks and Alerts with Power BI

3.19. Dataset Actions and Refresh Settings with Gateway

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CHAPTER

1. Insights And Subscriptions

1.1. Data Navigation Paths and Data Splits

1.2. Getting data from existing systems

1.3. Data Refresh and LIVE Connections

1.4. pbit and pbix : differences. Usage Options

1.5. Quick Insights For Power BI Reports

1.6. Quick Insights For PowerBI Dashboards

1.7. Generating Insights with Cloud Datasets

1.8. Generating Reports with Cloud Datasets

1.9. Using relational databases on-premises

1.10. Using relational databases in the cloud

1.11. Consuming a service content pack

1.12. Creating a custom data set from a service



1.13. Creating a content pack for your organization · Consuming an organizational content pack

1.14. Updating an organizational content pack

1.15. Adding Tiles : Images, Videos, DataStreams

1.16. Creating New Reports from Cortana, Advantages

Technology advancements like artificial intelligence (AI), machine and deep learning, the Internet of Things (IoT), etc. are made possible by this.

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CHAPTER

1. Introduction To Script

- 1.1. What is Script, program?
- 1.2. Types of Scripts
- 1.3. Difference between Script and Programming Languages
- 1.4. Features and Limitation of Scripting
- 1.5. Types of programming Language Paradigms

2. Introduction To Python

- 2.1. What is Python?
- 2.2. Why Python?
- 2.3. Who Uses Python?
- 2.4. Characteristics of Python
- 2.5. What is PSF?
- 2.6. History of Python
- 2.7. Python Versions
- 2.8. How to Download and Install Python
- 2.9. Install Python with Diff IDEs
- 2.10. Features and Limitations of Python
- 2.11. Creating Your First Python Program
Python Applications
- 2.12. Printing to the Screen
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