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DATA ANALYTICS
Using PowerBI

CERTIFIED ISO 9001:2015 COMPANY

Best Training and Placements Institute

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Data Analytics

Module 1 : SQL Server Intro
Module 2 : EXCEL & RLS
Module 3 : PowerBI
Module 4 : PowerBI Service & PowerBI Mobile
Module 5 : Basic Python

PowerBI with SQL Server

Module 1 : SQL SERVER INTRODUCTION

- Data, Databases
- RDBMS Software
- Database Types: OLTP, DWH, OLAP
- Microsoft SQL Server Advantages
- Uses of MS SQL
- Versions of SQL Server
- Editions of SQL Server
- SQL: Purpose,
- SQL Real-time Usage Options
- SQL versus Microsoft T-SQL [MSSQL]
- Microsoft SQL Server - Career Options
- SQL Server Components and Usage
- Database Engine Component and OLTP
- BI Components

- Data Science Components
- ETL, MSBI and Power BI Components
- Course Plan
- Concepts
- Resume
- Project
- Labs for Remote DB Access
- Software Installation Pre-Requisites

Excel & RLS

- Import and upload options in excel
- Excel workbooks and dashboards
- Datasets in excel and dashboards
- Using excel analyzer in powerBI

Introduction to Power BI

- Power BI Job Roles in Real-time
- Power BI Data Analyst Job Roles
- Business Analyst - Job Roles
- Power BI Developer - Job Roles
- Power BI for Data Scientists
- Comparing MSBI and Power BI
- Comparing Tableau and Power BI
- MCSA 70-778, MCSA 70-779 Exam
- Types of Reports in Real-World
- Interactive & Paginated Reports
- Analytical & Mobile Reports
- Data Sources Types in Power BI
- Power BI Licensing Plans - Types
- Power BI Training : Lab Plan
- Power BI Dev & Prod Environments
- Understanding the Power BI Tools
- Installing Power BI & Connecting to Data
- The "Locale" used in the curriculum
- Working with the query Editor
- Working with the data model and creating a visualization

Basic Report Design

- Power BI Desktop Installation
- Data Sources & Visual Types
- Canvas, Visualizations and Fields
- Get Data and Memory Tables
- In-Memory xvelocity Database
- Table and Tree Map Visuals
- Format Button and Data Labels
- Legend, Category and Grid
- PBIX and PBIT File Formats
- Visual Interaction, Data Points
- Disabling Visual Interactions
- Edit Interactions - Format Options
- SPOTLIGHT & FOCUSMODE
- CSV and PDF Exports. Tooltips
- Power BI EcoSystem, Architecture

Visual Sync, Grouping

- Slicer Visual: Real-time Usage
- Orientation, Selection Properties
- Single & Multi Select, CTRL Options
- Slicer: Number, Text and Date Data
- Slicer List and Slicer Dropdowns
- Visual Sync Limitations with Slicer
- Disabling Slicers, Clear Selections
- Grouping: Real-time Use, Examples
- List Grouping and Binning Options
- Grouping Static / Fixed Data Values
- Grouping Dynamic / Changing Data
- Bin Size and Bin Limits (Max, Min)
- Bin Count and Grouping Options
- Grouping Binned Data, Classification

Hierarchies, Filters

- Creating Hierarchies in Power BI
- Independent Drill-Down Options
- Dependant Drill-Down Options
- Conditional Drilldowns, Data Points
- Drill Up Buttons and Operations
- Expand & Show Next Level Options
- Dynamic Data Drills Limitations
- Show Data and See Records

Bookmarks, Azure, Modeling

- Drill - filters, page navigations
- Bookmarks : Real - time usage
- Bookmarks for visual filters
- Bookmarks for page navigations
- Selection pane with bookmarks
- Buttons, images with bookmarks
- Buttons, Actions - and text URLs
- Bookmarks view and selection pane
- OLTP Database, Big data sources
- Azure database access, reports
- Import and direct query with PowerBI
- SQL Queries and enter data
- Data Modelling : Currency, relations
- Summery, format, synonyms
- Web view and mobile view in PBI

Visualization properties

- Stacked charts and clusfered charts
- Line charts, Area charts, Bar charts

- 100% Stacked Bar & Column Charts
- Map Visuals: Tree, Filled, Bubble
- Cards, Funnel, Table, Matrix
- Scatter Chart: Play Axis, Labels
- Series Clusters & Selections
- SQL Server Components and Usage

Power Query Level 1

- Power Query M Language Purpose
- Power Query Architecture and ETL
- Data Types, Literals and Values
- Power Query Transformation Types
- Table & Column Transformations
- Text & Number Transformations
- Date, Time and Structured Data
- List, Record and Table Structures
- let, source, in statements @ M Lang
- Power Query Functions, Parameters
- Invoke Functions, Execution Results
- Get Data, Table Creations and Edit
- Merge and Append Transformations
- Join Kinds, Advanced Editor, Apply
- ETL Operations with Power Query

Power Query Level 2

- Query Duplicate, Query Reference
- Group By and Advanced Options
- Aggregations with Power Query
- Transpose, Header Row Promotion
- Reverse Rows and Row Count
- Data Type Changes & Detection
- Replace Columns: Text, NonText
- Replace Nulls: Fill Up, Fill Down
- PIVOT, UNPIVOT Transformations
- Move Column and Split Column
- Extract, Format and Numbers
- Date & Time Transformations

- Deriving Year, Quarter, Month, Day
- Add Column: Query Expressions
- Query Step Inserts and Step Edits

Power Query Level 3

- Creating parameters in power query
- Parameters data types, default lists
- Static / Dynamic lists for parameters
- Removing columns and duplicates
- Convert tables to list queries
- Testing parameters and PBI Canvas
- Multi - valued parameter lists
- Creating lists in power query
- Converting lists to table data
- Advanced edits and parameters
- Data type conversions, Expressions
- Columns from examples, indexes
- Conditional columns, expressions

DAX Functions - Level 1

- DAX : Importance in Real - time
- Real - word usage of excel, DAX
- DAX Architeture, entity sets
- DAX Data types, syntax rules
- DAX measures and calculations
- ROW context and filter context
- DAX operators special characters
- DAX functions, types in Real - time
- Vertipaq engine, DAX cheat sheet
- Creating, using measures with DAX
- Creating, using columns with DAX
- Quick measures and summaries
- Validation errors, Runtime errors
- JSUM, AVERAGEX, KEEPFILTERS
- Dynamic expression, IF in DAX

DAX Functions - Level 2

- Data modelling options in DAX
- Detecting relations for DAX
- Using caluclated columns in DAX
- Using aggregated measures in DAX

- Working with Facts & Measures
- Modelling: Missing Relations
- Modelling: Relation Management
- CALCULATE Function Conditions
- CALCULATE & ALL Member Scope
- RELATED & COUNTROWS in DAX
- Entity Sets and Slicing in DAX
- Dynamic Expressions, RETURN
- Date, Time and Text Functions
- Logical, Mathematical Functions
- Running Total & EARLIER Function

DAX Functions Level 3

- Connection with CSV, MS Access
- AVERAGEX and AVERAGE in DAX
- KEEPFILTERS and CALCUALTE
- COUNTROWS, RELATED, DIVIDE
- PARALLELPERIOD, DATEDADD
- CALCULATE & PREVIOUSMONTH
- USERELATIONSHIP, DAX Variables
- TOTALYTD , TOTALQTD
- DIVIDE, CALCULATE, Conditions
- IF..ELSE..THEN Statement
- SELECTEDVALUE, FORMAT
- SUM, DATEDIFF Examples in DAX
- TODAY, DATE, DAY with DAX
- Time Intelligence Functions – DAX

DAX Functions Level 3

- Power BI Service Architecture
- Power BI Cloud Components, Use
- App Workspaces, Report Publish
- Reports & Related Datasets Cloud
- Creating new reports in cloud
- Report publish and report uploads
- Dashboards creation and usage
- Adding tiles to dasgboards
- Pinning visuals and report pages
- Visual pin actions in dashboards
- Live page interaction in dashboard
- Adding media : Images, custom links

- Adding Chs and embed links
- API data sources, Streaming data
- Streaming datasets tiles (REST API)

Power BI cloud - 2

- Dashboard actions, Report actions
- Dataset Actions : Create report
- Share, metrics and exports
- Mobile view and dashboards themes
- Q & A [Cortana] and pin visuals
- Export subscribe, subscribe
- Favorite, Insights embed code
- Featured dashboards and refresh
- Gateways configuration, PBI service
- Gateway types, cloud connections
- Gateway clusters, add data sources
- Data refresh : Manual atomatic
- PBIEngw service ODG logs, Audits
- DataFlows Power query expressions
- Adding entities and JSON files

Report server, RDL

- Need, configure report server in PROD
- Install, configure report server
- MReport server DB, Temp database
- Web service URL, Webportal URL
- Creating hylorid cloud with PowerBI
- Using PowerBI desktopRS
- Uploading interactive reports
- Reports builder for report server
- Report builder for PowerBI cloud
- Tenant INs Generation and use
- Mobile report publishers, usage

Power App

- Overview
- Basic power App concept
- Canvas App | Navigation | Customization
- Contents (Galleries, Data cards, forms, triggers, Functions and formulas, Edit form text Boxes).

Power BI Service & Power BI Mobile

- Dataset Menu
- Working on Reports
- Dashboard Overview
- Workspace and Gateways
- Installing Gateways - Personal On - Premise
- Working Alone are Collabroating with Colleagues
- Collabroating in App workspace
- Sharing the results
- Publishing the App
- Content packs from online services
- Power BI mobile Overview
- Excluding dataset from sharing

Power BI and Excel Together

- Options for publishing from excel
- Pin Excel Elements to Power BI
- Analyze in excel (Power BI Pro or Premium
- Excel publish : Upload and Export to Power BI
- Sharing Published Excel dashboards (Power BI Pro Or Premium)

Real - Time Project

- Project Requirement Analysis
- Implementing SDLC Phases
- Requirement gathering, FSA

Phases 1 :

- PBIX report design
- Visualization, properties
- Analytics and formatting

Phases 2 :

- Data Modelling, Power Query
- Dynamic connections, Azure BD
- Parameters and M Lang scripts

Phases 3 :

- DAX Requirements, Analysis
- Cloud and report server
- Project FAQs and solutions

Faculty : ....

Date : ....

Time : ....

Duration : ....

Fee : ....

Comments : ....

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ARETEANS — Excel it | mutualmobile | XIUS — INNOVATE • LEAD | people TECH | TECHNOLABS | VOLTUSWAVE — Enterprise Apps Platform

Placed Students

Name	Company	CTC
G.Sravani	Black Hawk	CTC: 10 LPA
T. Premsai	Zemoso	CTC: 6.89 LPA
V. Balaraju	Zemoso	CTC: 6.89 LPA
SN. Nagarjuna	Cerner	CTC: 6.0 LPA
Anjali Kumari	e-Team info services	CTC: 4.5 LPA
D. Supriya	First American	CTC: 4.4 LPA
CH. Mohan Gopi Krishna	First American	CTC: 4.4 LPA
K. Alekhya	Darwinbox	CTC: 4.32 LPA
K. Bhanu	Darwinbox	CTC: 4.32 LPA
G.Venkatesh	Darwinbox	CTC:4.32 LPA
M.Sravani	IBM	CTC: 4.2 LPA
D.Vishnu Sagar	Delta Technology	CTC: 4.0 LPA
MD. Rashid Jawaid	Delta Technology	CTC: 4.0 LPA
N.Spandana	Delta Technology	CTC: 4.0 LPA
A. Jaya Krishna	Delta Technology	CTC: 4.0 LPA
K. Alekhya	Delta Technology	CTC: 4.0 LPA
N.Kavya	Delta Technology	CTC: 4.0 LPA
G. Rambabu	JD Sports Fashion	CTC:4.0 LPA
D. Srividya	Darwinbox	CTC:4.0 LPA
A. Satya Prakash	Corpus	CTC: 3.6 LPA
N.Suresh	Corpus	CTC: 3.6 LPA
S. Divya	Infosys	CTC: 3.6 LPA
M. Lokesh Reddy	Infosys	CTC: 3.6 LPA
KLV. ShivaSai	Darwinbox	CTC: 3.6 LPA
T. Vineetha	Darwinbox	CTC: 3.6 LPA
Sushmitha	TCS	CTC: 3.53 LPA
C. Hasini	Gaian Solutions	CTC: 3.5 LPA
M.Ramya	Gaian Solutions	CTC: 3.5 LPA
M. Shivakumar	Gaian Solutions	CTC: 3.5 LPA
B. Sandhya Rani	Gaian Solutions	CTC: 3.5 LPA
E. Bharathi	Gaian Solutions	CTC: 3.5 LPA
D. Sowmya	Gaian Solutions	CTC: 3.5 LPA
B. Sravani	TCS	CTC: 3.5 LPA
V. Rakesh	Defteam	CTC: 3.5 LPA
Ajay Jikare	TCS	CTC: 3.36 LPA
Govind Dasharathe	TCS	CTC: 3.36 LPA
K.Tharun	Piersoft	CTC: 3.0 LPA
B. Ananya	Pronix	CTC: 3.0 LPA
Poorna	Capgemini	CTC: 3.0 LPA
T. Kalyankar	Infosys	CTC: 3.0 LPA
Vijay Reddy	NCR	CTC: 3.0 LPA
M. Vandana	Smart Data	CTC: 3.0 LPA
M. Gopi	Smart Data	CTC: 3.0 LPA
S.Venkat Reddy	Aryagami Cloud	CTC: 2.76 LPA

Full Stack TESTING
Test Engineer
3-Months

Full Stack JAVA
Java Developer
4-Months

Full Stack PYTHON
Python Developer
3-Months

Training Methodology

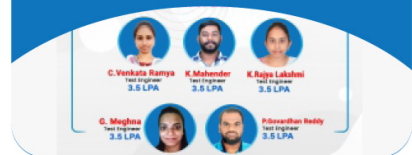**Class room Training**

Project Training

Resume Preparation

Certification

LiveTech
TRAINING COMPLETION
CERTIFICATE
This is to certify that
Venkata ramana reddy
has completed TESTING TOOLS with PROJECT training in LiveTech
Hyderabad(TG) from Jan-2023 to Mar-2023
Enrollment: LT230501

Interview Preparation

Placement Assistance

C.Venkata Ramya
Test Engineer
3.5 LPA

K.Mahender
Test Engineer
3.5 LPA

K.Rajya Lakshmi
Test Engineer
3.5 LPA

G. Meghna
Test Engineer
3.5 LPA

P.Govardhan Reddy
Test Engineer
3.5 LPA

Our Infrastructure