

### UNIQUE FEATURES OF VINAY TECH HOUSE:

- COMPLETELY PRACTICAL, REAL TIME AND PROJECT ORIENTED
- RICH THEORY WITH OPTIMIZATION TECHNIQUES
- CERTIFICATION BASED TRAINING\*\*\*
- PROJECT BASED EXPLANATION \*\*\*
- POWER BI PROJECT ENVIRONMENT, EXPLAINING MULTIPLE PROJECTS
- RESUME GUIDANCE AND MOCK INTERVIEWS
- TOP NOTCH COMPANIES, MULTIPLE CMM LEVEL COMPANIES DIRECT RECRUITMENT.

### ADDITIONAL SESSIONS ALONG WITH TERADATA MAIN COURSE:

- DATAWAREHOUSE FUNDAMENTALS
- DATA MODEL FUNDAMENTALS
- DWH & BI PROJECT ENVIRONMENT EXPLANATION
- REPORT TESTING APPROACH
- POWER BI PROJECT EXPLANATION

### SOFTWARE AND MATERIALS (FREE)

- DEMO SOFTWARE FOR PRACTICE
- PRACTICAL MATERIAL CHAPTER WISE
- SOFTCOPY MATERIAL WITH EACH TOPIC WISE THEORY, DIAGRAMS AND OPTIMIZATIONS
- PDFS AND PPTS WITH DIAGRAMATIC PRESENTATIONS.
- VIDEOS FOR MISSING CLASSES \*\*\*

### BLOGS

- [WWW.MSBIVINAY.BLOGSPOT.IN](http://WWW.MSBIVINAY.BLOGSPOT.IN)

### PROJECTS

- BANKING PROJECT WITH GALAXY & SNOW FLAKE SCHEMA MODELS
- RETAIL PROJECT WITH STAR SCHEMA & MIXED SCHEMA MODELS
- TELECOM PROJECT WITH 3<sup>RD</sup> NORMAL MODEL

### POWER BI DEMO, DATA WAREHOUSE AND DATA MODEL FUNDAMENTALS

#### IT Data Fundamentals & POWER BI Existence

- ❖ Data, Data Availability in IT
- ❖ IT data storage areas
- ❖ Data warehouse, BI definitions and layers
- ❖ Power BI existence in IT, Product services
- ❖ Power BI Features
- ❖ Power BI Tools and Components
- ❖ Teradata Opportunities

Creative visualization through screen shots

#### Power BI and Competitiveness

- ❖ What are BI, OLAP, and OLTP? Importance in the current Enterprise? Competitive advantages
- ❖ Power BI vs Other BI tools
- ❖ SQL History, SQL Extensions and Power BI detailed history
- ❖ Hardware, Software requirements
- ❖ Installation methods

#### Power BI components and explanation

- ❖ Power BI Client
- ❖ Power BI Server
- ❖ Power BI Desktop

Creative visualization through software

#### Data warehousing fundamentals

- ❖ Data definitions
  - (Data, Information, BI, Mining, ODS, DSS, Analysis, OLTP, OLAP, OLCP)
- ❖ Dwh Characteristics, Principles
- ❖ Dwh approaches (Top down/Bottom up)
- ❖ Dwh Life Cycle steps
- ❖ Data Mart & Types
- ❖ Data Processing Types (OLAP)
- ❖ Granularity and various granularities
- ❖ Diff between OLTP and OLAP

Creative visualization through screen shots

Huge discussion on DWH projects

#### Dimensional Modeling Fundamentals

- ❖ Dimension, Dimension Table & types
- ❖ Fact, Fact Table & measures types
- ❖ Fact less fact table
- ❖ Various schemas (Star, Snow Flake, Galaxy & Hybrid )
- ❖ Surrogate key and usages in real time
- ❖ Model, Business, Conceptual, Logical, Physical Data Models

Real time project tables, models and design

Huge discussion on Project Data Designs

### POWER BI (BASIC TO ADVANCED COURSE CONTENT)

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| <ul style="list-style-type: none"><li>✓ <b>Installation of Power BI</b></li><li>✓ Introduction to Power BI</li><li>✓ Monthly updates of Power BI</li><li>✓ Need of Power BI</li><li>✓ Latest new features in PBI</li><li>✓ Working with Power BI Desktop</li><li>✓ Working with power BI Services</li><li>✓ Power BI availability for.</li><li>✓ Building blocks of PBI</li><li>✓ Differences between Power BI and SSRS(MSBI)</li><li>✓ Connecting to Database</li><li>✓ Fetching data from different files</li><li>✓ Working with different visualizations</li><li>✓ Importing custom visualizations</li><li>✓ Working with import and direct query options</li><li>✓ Getting data from different external data source</li><li>✓ Working with Query Editor</li><li>✓ Creating custom table in the Power BI</li><li>✓ Merge Queries and Append Queries</li><li>✓ Remove columns and split columns</li><li>✓ Choosing required columns in the data</li><li>✓ Working with different transformations</li><li>✓ Working with Applied steps in query editor</li><li>✓ <b>Working with Power BI Views:</b><ul style="list-style-type: none"><li>○ Report View</li><li>○ Data View</li><li>○ Relationship View</li></ul></li><li>✓ Working with hierarchies and measures</li><li>✓ Working with table and matrix visuals</li><li>✓ Working with different level of filters<ul style="list-style-type: none"><li>○ Visualization level</li><li>○ Page level</li><li>○ Report level</li></ul></li><li>✓ <b>Visualizations:</b><ul style="list-style-type: none"><li>○ Column charts and bar charts</li><li>○ Line charts and area charts</li><li>○ Waterfall charts and tunnel charts</li><li>○ Pie charts and tree map charts</li><li>○ And remaining all visualizations</li></ul></li></ul> | <ul style="list-style-type: none"><li>✓ Differences between old Power BI and new Power BI</li><li>✓ Working with Pivot and Unpivot columns</li><li>✓ Adding index column and custom column</li><li>✓ Merging and appending queries</li><li>✓ Working with Group By in Query Editor</li><li>✓ Working with Replace Values and Replace Nulls</li><li>✓ Managing data types in Query editor</li><li>✓ Managing Relationships in Power BI Desktop</li><li>✓ Adding image, text box and different shapes to reports in Desktop</li><li>✓ Working with all query properties</li><li>✓ Working with interactive drilldowns in the report visualizations</li><li>✓ <b>Working with Excel BI add Ins:</b><ul style="list-style-type: none"><li>○ Power view</li><li>○ Power query</li><li>○ Power map</li><li>○ Power pivot</li></ul></li><li>✓ Creating calculated columns/fields and usage</li><li>✓ Working with Power pivot data model</li><li>✓ Working with data modeling</li><li>✓ Developing KPIs and measures.</li><li>✓ Defining relationships between tables</li><li>✓ Power BI gateways and types</li><li>✓ <b>Working with DAX functions</b><ul style="list-style-type: none"><li>○ Text functions</li><li>○ Filter functions</li><li>○ Date functions</li><li>○ Logical functions</li><li>○ Information functions</li><li>○ Other functions</li></ul></li><li>✓ Creating and working with calculated measures by using DAX.</li><li>✓ Creating and working with calculated columns by using DAX.</li><li>✓ Implementing dynamic titles in the report.</li><li>✓ Creating a custom table with range of dates.</li><li>✓ Working with dynamic parameters.</li></ul> |
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Email: [vinaytechhouse.info@gmail.com](mailto:vinaytechhouse.info@gmail.com) Contact: +91 9573168449/040 66638869 Website: [www.vinaytechhouse.com](http://www.vinaytechhouse.com)

- ✓ Working with single row cards and multi row cards
- ✓ Working with slicers
- ✓ Publishing a report to Power BI Services
- ✓ Managing report in Power BI services
- ✓ Creating groups in Power BI Services
- ✓ Different ways to share dashboards to Client and colleagues.
- ✓ Working with multiple pages
- ✓ Creating Power BI dashboards
- ✓ Using social websites to create Dashboards

- ✓ Using dynamic parameters to filter the entire report.
- ✓ Creating and publishing with Content packs.
- ✓ Scheduling the Dashboards
- ✓ Different ways to share dashboards
- ✓ Creating groups and managing groups
- ✓ Adding videos and pictures in the dashboards.

# Vinay Tech House