Tableau

By Rayapatis

Rajeswar Rayapati

- 8+ years of professional experience
- A Data Geek
- Tableau, SQL, PLSQL
- Loves solving problems
- Passionate about Tableau
- Mad about LODs



My Social Presence

- Youtube Channel https://www.youtube.com/c/Rayapati/
 - 3200+ Subscribers
- LinkedIn Profile https://www.linkedin.com/in/rayapati/
 - 6300+ Followers
- Tableau Public https://public.tableau.com/app/profile/rajeswar.rayapati
 - 100+ Followers
- Website www.rayapatianalytics.com

What do Data Beholds

- Every Business is producing Data and crunching the Data makes you understand the Business that you never knew existed before
- Data Driven Decision Making
- What are the high Days and low Days of Business?
- Why Big Bazar started Wednesday Markets?
- How to identify a returning customer?
- How to measure business using KPIs
- What are the Bottlenecks of a Business?
- All these questions about a business lies in the Data But how do we find answers to these Questions?

Every Business has its own Story to tell

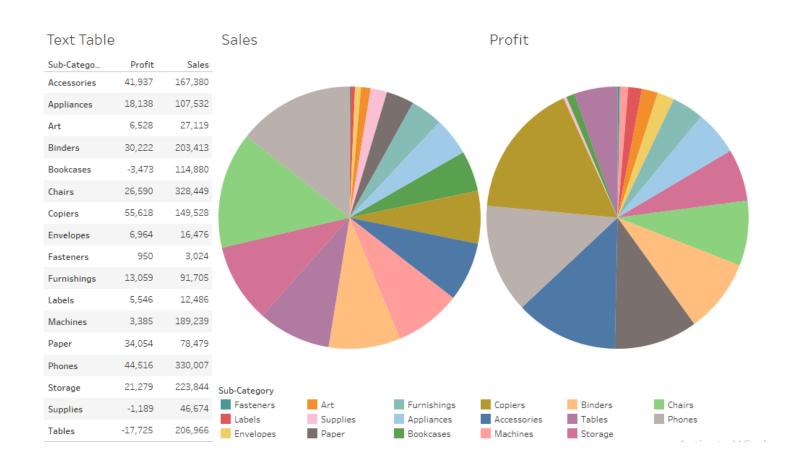
- Data is just collection of Facts and Dimensions
- But when Sliced and Diced correctly, you can always tell a very good story
- But what is the best way to tell a Story?
- How many of you read Tinkle? I still remember Shikari Shambu, Supandi,
 Kalia the Crow. What is great about them?
- It is not just a story but the characters are very realistic. They had a profound effect on me.
- I have always been a fan of telling a story with pictures in my childhood
- But my Professional Experience is not much different
- I still try to tell stories but by DATA VISUALIZATION

Why Data Visualization

Which Tells a better Story?



Which info is Faster to grab and easy to remember?



Lets click on the URL and see what it has to offer

https://luminocity3d.org/WorldPopDen/#3/13.75/49.04

- With one Map and a Legend, this website tells a lot about the Density of the World's Population
- First take away, the Population is not spread across all over the world but is concentrated at only few points
- Southern Asia has high density of Population
- Zoom in to understand that each City level density of the Data
- All of this in one interactive image
- That's the power of Visualization

Why Tableau?

- How many of you want to Travel in a Driverless Car?
- I am in just for the thrill and also I don't know how to drive a Car
- For me the "Janjhat" of driving will be solved
- Same why introduction of Tableau made Data Visualization a Layman term
- You need not know all the technicalities to start working on Data
- You need not write Queries also. Tableau writes them for you
- Tableau will even suggest a graph for you
- Tableau helps you share your DATA STORY with the world
- Data Analysis has become PLUG and PLAY

Gartner's Magic Quadrant

Leader from the past 7 years in a market where you see new BI tool every other day



COMPLETENESS OF VISION

@ Gartner, Inc

Tableau Journey as I see

Tableau has three phases according to me

- Pre 10.5
- 10.5 to 2020.1
- 2020.2 and above

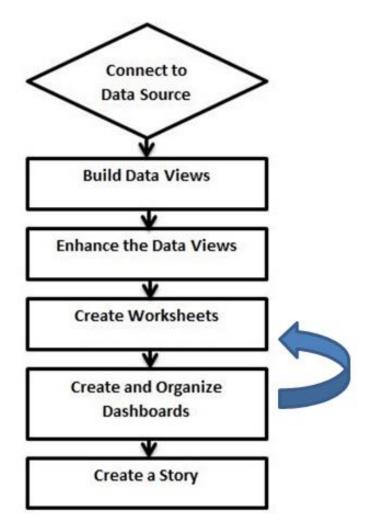
Till 10.5 Tableau is just like any other BI tool for me but from 10.5 with LODs, I started fantasizing Tableau and with introduction of Relationships in Tableau, I am madly in love with it.

You can call this course Tableau - my Love Story

Want more...

- VIZQL DIY kit for Data Analysis
- .hyper Bullet Train in Data Engines
- Columnar Database Model High Data compression
- Cross DB Joins

Design Flow in Tableau



Scenario-Based Tableau Training

What is Scenario-Based Tableau Training?

- Any Tool has two parts of Learning
 - Theoretical Understanding of the Tool
 - Industry level application part of the Tool
- So, Training is divided into two Parts
 - Self Paced Videos Theoretical Part of Tableau
 - Live Sessions Scenario-Based Implementation part of Tableau
- What does the Scenarios Cover?
 - Scenarios that reinforce the Tool understanding
 - Most common Scenarios in Real Time
 - Complicated Scenarios that make your resume stronger
 - If you have any Scenario We can Discuss in the Sessions

What does your Live Sessions look like

- Every Friday evening, Self Paced videos of the Sessions are provided along with the Scenarios that you need to address
- In live Sessions first all your Doubts will be addressed and then Scenarios are discussed with a step by step approach to solution
- Also if you saw a Scenario somewhere and want to discuss, you are welcome

What Bonus do you get in this Training

- Social Profile Building LinkedIn and Tableau Public
- Interview Help
- Strong Resume Points
- Access to a Telegram Group containing all my Trainees
- Monthly Doubts Session once the Training is provided
- A process to address your complicated Real-time Scenarios

Agenda of the Course

- Tableau Introduction
- Tableau Products
- Data Types
- Data Connection-Live, Extract
- Dimensions and Measures
- Parts of the Tableau View
- Building the Basics

- Understanding the granularities and its effect on Tableau
- Multiple Dimensions and Measures in View
- Types of Axis and their Use Cases
- Blended Axis
- Dual Axis

- Building Maps and Understanding Geographic Analysis, Custom Geocoding
- Edit locations in maps
- Filtering Concept
- Quick Filters
- Date Filters
- Context Filtering and its area of implementation

- Data Source Filters and Extract Filters
- Parameters
- What are Sets and their implementations
- Binning the Measures
- Grouping the Data
- Hierarchies

- Functions in Tableau
 - Number Functions
 - String Functions
 - Date Functions
 - Type Conversion Functions
 - Logical Functions
 - Aggregation Functions
- Basic Calculations
- Cascading Filters
- Sorting the Data in Tableau

- Basic Charts in Show Me and marks card
- Shapes
- Background Images in Tableau
- Page Shelf and Animations using it
- Sorting the Data in Tableau
- Dashboards
- Stories

- Actions
 - Filter Actions
 - Highlight Actions
 - Format Options
 - URL Action
 - Set Actions
 - Parameter Actions

- Level of Detail Expressions
- Relationships in Tableau and its implementation
- 8 R's of Relationship
- Joins in SQL and Tableau
- Basics of Data Blending
- Issues with Data Blending and Solutions
- Understanding Window Calculations in Tableau

- Types of Table Calculations
- Manual Table Calculations
- Addressing Field and Partitioning Field
- Filtering using Table Calculations
- Advanced Calculations
- Period over Period and Period to Date Calculations
- Regular Expressions in Tableau

- Advanced Charts
- Reference Types
- Reference Lines
- Reference Band
- Reference Distribution
- Box Plot
- Order of Operations
- Spatial Analysis
- Forecasting the Data
- Trend Lines

- Tableau Server
- Mini Project
- Resume Preparation
- Interview Tips

* Doubts session every Saturday 10 AM

Tableau Products

Tableau products are majorly divided into 3 types

- 1. Data Cleaning Tools Tableau Prep
- 2. Building tools Tableau Desktop and Tableau Public
- 3. Sharing Tools Tableau Server, Tableau Online, Tableau Reader, Tableau Mobile

Tableau Licensing

https://www.tableau.com/pricing/teams-orgs

Tableau Products Installation

Tableau Desktop: https://www.tableau.com/products/desktop/download

Earlier versions : https://www.tableau.com/support/releases

Tableau Public: https://public.tableau.com/en-us/s/download

Tableau Prep: https://www.tableau.com/products/prep/download

Tableau Server: https://www.tableau.com/support/releases/server

Tableau Online: https://www.tableau.com/products/cloud-bi

Tableau Reader: https://www.tableau.com/products/reader

Tableau Mobile:

https://play.google.com/store/apps/details?id=com.Tableau.TableauApp&hl=en_IN&gl

<u>=US</u>