

Session 1 Recap

What is data analytics?

Data analytics is the process of **combining and examining datasets** to identify patterns and **develop actionable insights.**

What is data?

Data is information that can be considered and used **to help decision-making**.

Data Types

Structured and unstructured, categorical and numerical, nominal and ordinal, discrete and continuous

Google Sheets Tutorial

Basic cell operations, filtering, and structure of formulas.

Session 2 Agenda

Exploratory Data Analysis



Data Storage



Key Components



Data Analysis Phases



Hands-on Activity

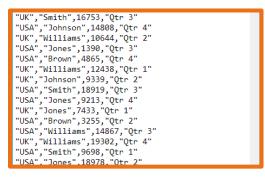


What is Exploratory Data Analysis?

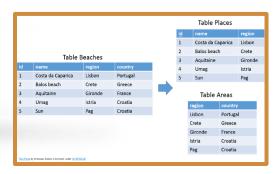


Project Update

How is data stored?



1	A ID	B Last Name	C First Name	City	E State
3	2	DOE02	JANE02	Sedona	Arizona
4	3	DOE01	JOE01	Elmira	New York
5	4	DOE02	JOE02	Lackawana	New York
6	5	DOE03	JOE03	Defiance	Ohio
7	6	DOE04	JOE04	Tel Aviv	Israel
8	7	DOE05	JOE05	Cimax	North Carolin
9	8	DOE03	JANE03	Liberal	Kansas
10	9	DOE04	JANE04	Montreal	Canada
11	10	DOE05	JANE05	New York	New York
12	11	DOE06	JOE06	Hot Coffe	Mississippi
13	12	DOE06	JANE06	Java	Virginia
14	13	DOE07	IOF07	Vama	Rulgaria



Text Files / Flat Files (.txt, .csv)

Is a computer file that only contains text and has no special formatting such as bold text, italic text, images, etc.

Spreadsheets (.xlsx)

an file in which data is arranged in the rows and columns of a grid and can be manipulated and used in calculations. Data can be numeric, text, formulas, references and functions.

Databases

is an organized collection of structured information.

Databases, hold larger collections of organized information and allow multiple users at the same time.

Data Analysis Project Lifecycle

Data Understanding

Consolidate data sources, clean data, and conduct exploratory data analysis.

Visualization

Construct visuals that will demonstrate the main story and key insights from the data.



Problem Understanding

Get a clear idea about the problem to be answered.

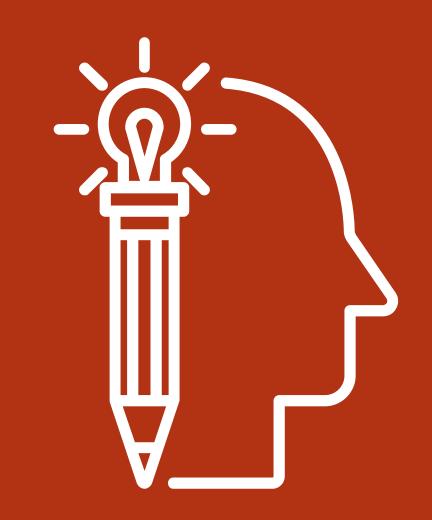
Data Analysis

Complete data analysis and/or data modeling.

Present Findings

Put together analysis and findings and share with stakeholders.

What is Exploratory Data Analysis (EDA)?

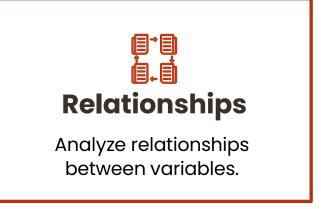


EXPLORATORY DATA ANALYSIS

"the process of investigating the dataset to discover patterns, and anomalies (outliers), and form hypotheses based on our understanding of the dataset."







Google Sheets Tutorial | EDA

