BUDGET SALES ANALYSIS Archana Bora

Written By	Archana Bora	
Document Version	1.0	
Last Revised Date		

DOCUMENT CONTROL

Change Record:

VERSION	DATE	AUTHOR	COMMENTS

Reviews:

VERSION	DATE	REVIEWER	COMMENTS

Approval Status:

VERSION	REVIEW DATE	REVIEWED BY	APPROWED BY	COMMENTS

Table of Contents

1.	Int	roduction	•••••	•••••	•••••	3
1	1.1	What is Architecture de	esign c	document?.	•••••	3
1	.2	Scope	•••••	•••••	•••••	3
2.	Arc	chitecture	Error!	Bookmark	not	defined.
2	2.1	Data source	Error!	Bookmark	not	defined.
2	2.2	Data ingestion	Error!	Bookmark	not	defined.
2	2.3	Data warehouse	Error!	Bookmark	not	defined.
2	2.4	BI semantic models	. Error!	Bookmark	not	defined.
2	2.5	Report	Error!	Bookmark	not	defined.

1. Introduction

1.1 What is Low-level design document?

The goal of the Low-level design document (LLDD) is to give the internal logic design of the actual program code for the Sales Budget Analysis dashboard. LLDD describes the class diagrams with the methods and relations between classes and programs specs. It describes the modules so that the programmer can directly code the program from the document.

1.2 Scope

Low level design (LLD) is a component-level design process that follows a step-by-step refinement process. The process can be used for designing data structures, required software architecture, source code and ultimately, performance algorithms. Overall, the data organization may be defined during requirement analysis and then refined during data design work.

1.3 Project Introduction

The growth of manufacturing and reselling business in most populated cities are increasing and market competitions are also high. The dataset is one of the historical sales of a company named Adventure Works which has records for 3 years. Good data driven systems for analysing sales can improve the performance of the company and generate more ROI to the stakeholders.

2. Problem Statement

Our "Domain Sale" process is structured to help potential buyers purchase the domain they want immediately without the hassle of contacting the seller directly.

A seller lists a domain for sale at a specific price in our Marketplace. An interested buyer sees this domain for sale and decides to buy it.

3. Dataset information

CustomerKey: Primary key for customer dataset

Birthdate: Birthdate of the customer

MaritalStatus: M- Married / S - Single

Gender: M – Male / F – Female

TotalChildren: Total number of children

NumberChildrenAtHome: Number of children staying along with

their parents

Education: Education qualification

Occupation: Present occupation

HouseOwnerFlag: 1– Owns house / 0- Doesn't have a permanent

address

NumberCarsOwned: Number of cars owned by the customer

DateFirstPurchase: First date of order by the customer

ProductKey: Primary Key for the product dataset

ProductName: Product name with colour of the product

Subcategory: Sub category name of the product

Category: Category name of the product

ListPrice: Sale price of the product

DaysToManufacture: Days to manufacture the product after

receiving the order

ProductLine: Product line name

ModelName: Model name of the product

ProductDescription: more details about the product

SalesTerritoryKey: Primary Key of the Territory dataset

Region: Region name of the order

Country: Country name of the order

OrderDate: Date of the order received

ShipDate: Date when the order left the factory for export

SalesOrderNumber: Invoice number of the order

OrderQuantity: Number of quantities ordered for a product

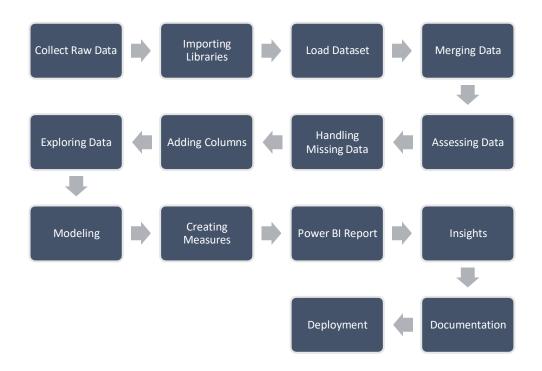
UnitPrice: Per unit sale price of the product

TotalProductCost: Cost of the product

SalesAmount: Total sales price of the product

TaxAmt: Tax collected for the product sold

4. Architecture



Collect Raw Data - This step involves extracting the data from different sources relevant to the problem statement or obtaining data from the client

Importing Libraries – Import analysis related python libraries example – Pandas, Numpy, Plotly, datetime etc

Data Wrangling – Contains following steps gathering data, assessing data, handling missing data and adding columns

Exploring Data – Once the data is loaded and pre-processed, we preform data analysis using python libraries and Business Intelligence tools like Power BI

Data Modelling - Data Modelling is one of the features used to connect multiple data sources in BI tool using a relationship.

A relationship defines how data sources are connected with each other and you can create interesting data visualizations on multiple data sources

Deployment - The prepared visualizations are deployed on the powerbi.microsoft.com site. Where they will be available publicly

