Architecture Design

# Budget Sales Data Analysis

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# Contents

1. [Introduction 04](#_TOC_250005)
   1. [Purpose of the Document? 04](#_TOC_250004)
   2. [Scope 04](#_TOC_250003)
2. [Architecture 05](#_TOC_250002)

Power Bi Architecture 05-07

EDA with Python 05-07

# Introduction

## Purpose of the Document?

Any software needs the architectural design to represents the design of software. IEEE defines architectural design as “the process of defining a collection of hardware and software components and their interfaces to establish the framework for the development of a computer system.” The software that is built for computer-based systems can exhibit one of these many architectures.

Each style will describe a system category that consists of :

* A set of components (eg: a database, computational modules) that will perform a function required by the system.
* The set of connectors will help in coordination, communication, and cooperation between the components.
* Conditions that how components can be integrated to form the system.
* Semantic models that help the designer to understand the overall properties of the system.

## Scope

Architecture Design Document (ADD) is an architecture 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 design principles may be defined during requirement analysis and then refined during architectural design work.

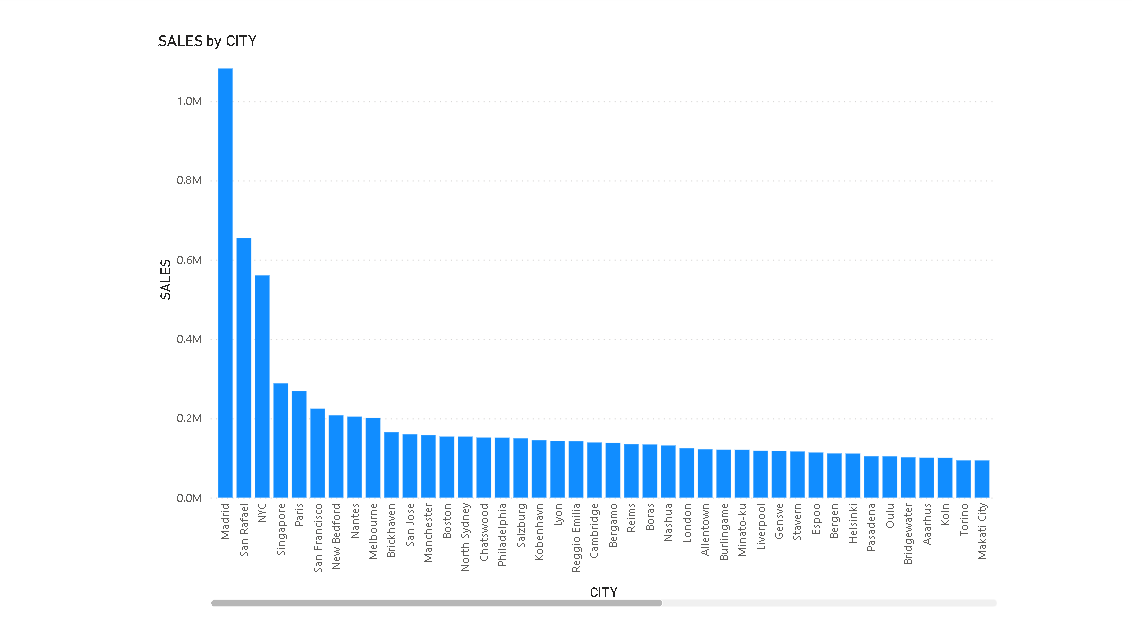
# Architecture

**Power Bi Architecture**

Power BI is an interactive data visualization software product developed by Microsoft with a primary focus on business intelligence. It is part of the Microsoft Power Platform. Power BI is a collection of software services, apps, and connectors that work together to turn unrelated sources of data into coherent, visually immersive, and interactive insights. Data may be input by reading directly from a database, webpage, or structured files such as spreadsheets, CSV, XML, and JSON.

### ARCHITECTURE DESIGN

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1. **Sales by City**

**2) Sales by Size**

1. **Sales by State & Product line**
2. **Sales by MSRP**
3. **Sales by Country**

**EDA With Python**

This process involves understanding our dataset & data cleaning. It involves implementing probability & statistics concepts using python libraries and modules.

Checkout below implementation:

