Architecture Design

# Amazon Sales Data Analysis

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| **Document Version** | 1.0 |
| **Last Revised Date** |  |

**DOCUMENT CONTROL**

## Change Record:

|  |  |  |  |
| --- | --- | --- | --- |
| **VERSION** | **DATE** | **AUTHOR** | **COMMENTS** |
| 1.0 | 30-07-2022 | Charchit Mangal | Introduction and architecture defined |
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**Reviews:**

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| **VERSION** | **DATE** | **REVIEWER** | **COMMENTS** |

**Approval Status:**

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| **VERSION** | **REVIEW**  **DATE** | **REVIEWED BY** |  | **APPROVED BY** | **COMMENTS** |
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Power Bi Architecture 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.

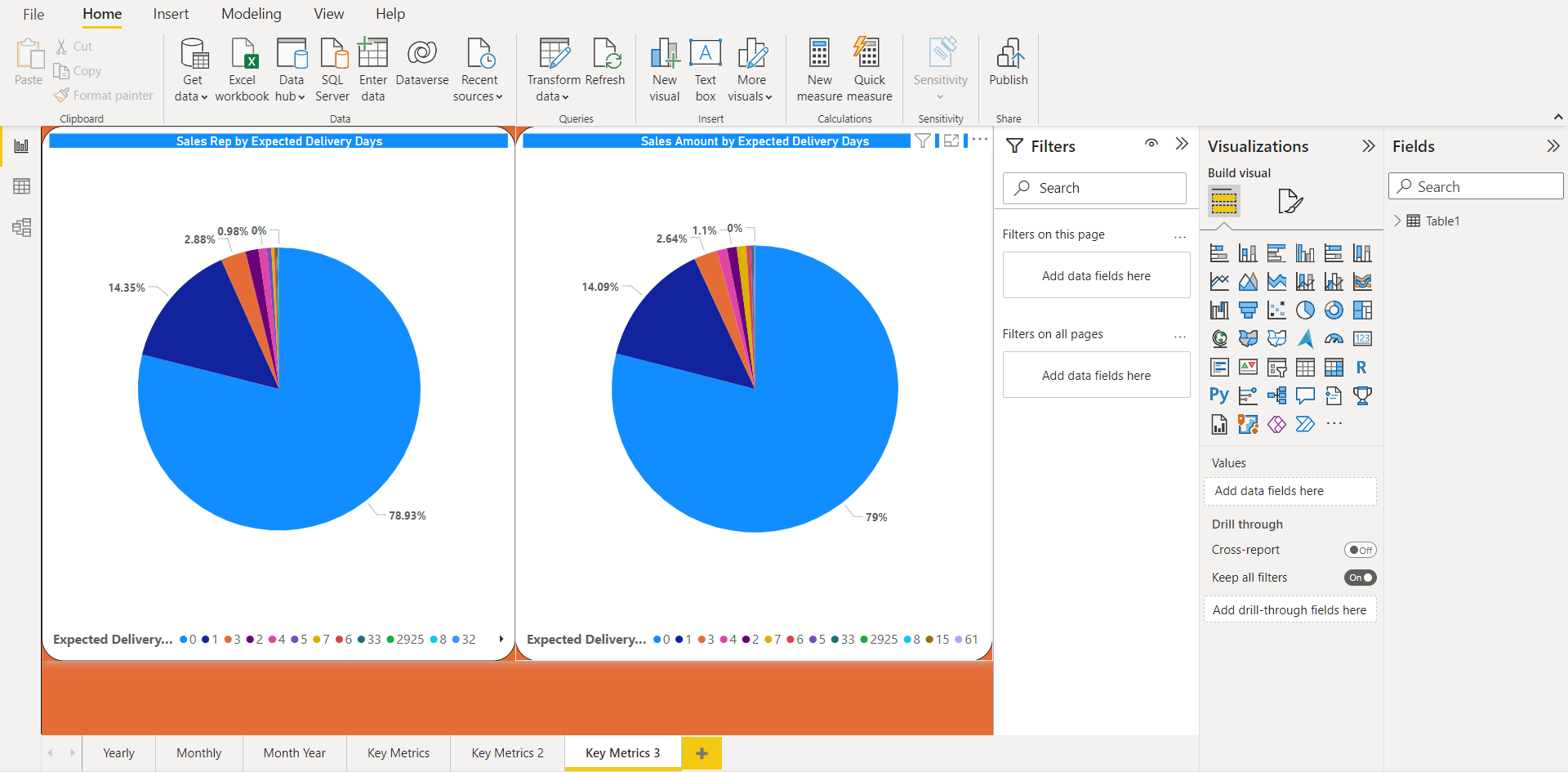
Each style will describe a system category that consists of :

* 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

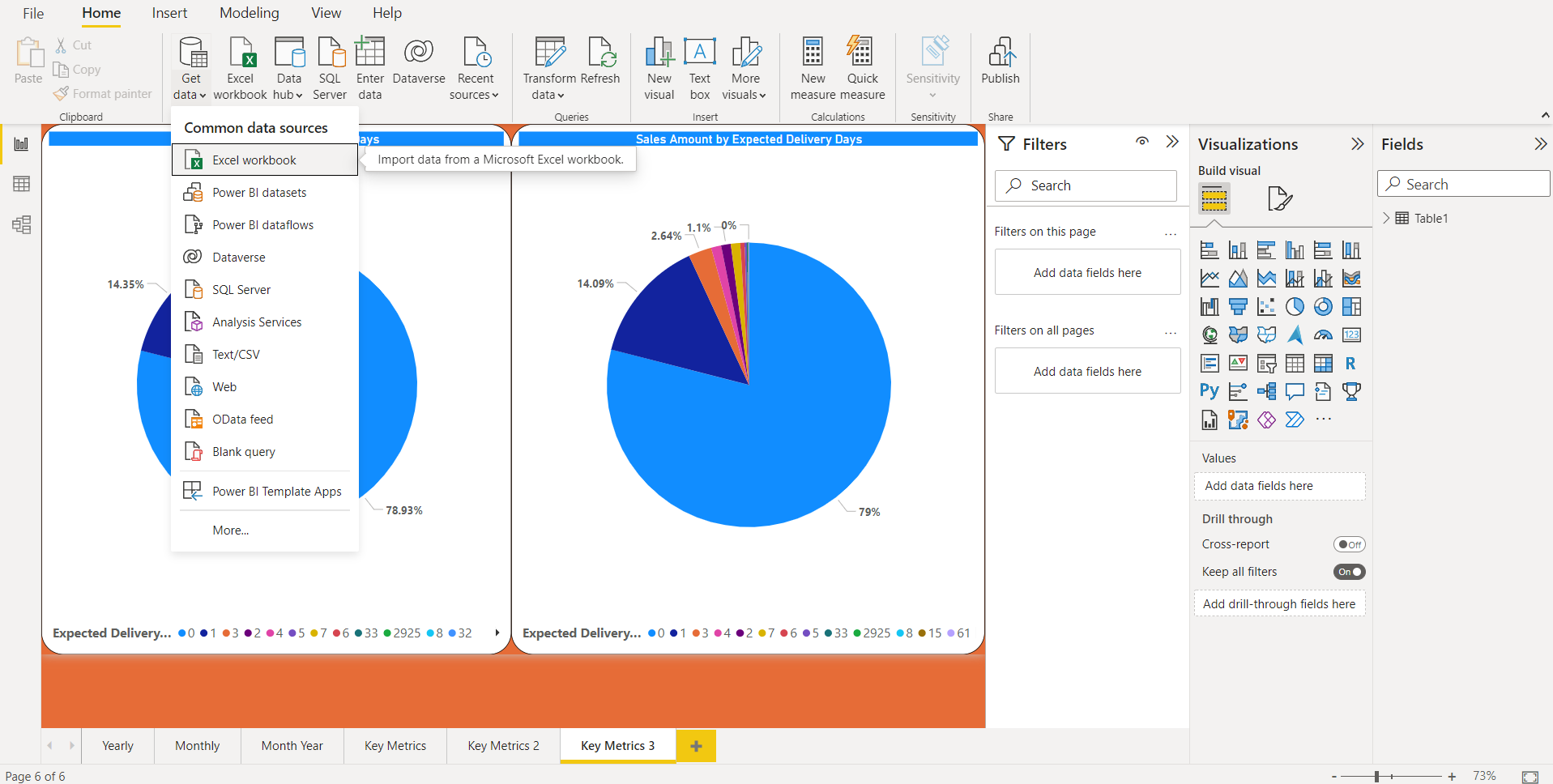
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**Power Bi Architecture**

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 Quantity by Year**

**2) Sales Amount by Year**

1. **Sales Amount by Month Name**
2. **Sales Quantity by Month Name**
3. **Sales Amount by Month Year**
4. **Sales Quantity by Month Year**
5. **Sales Amount by Item Number**
6. **Sales Amount by Item**
7. **Sales Amount by Line Number**

**10.) Sales Repetition by Items**

**11.) Sales Repetition by Expected delivery days**

**12.) Sales Amount by Expected delivery days**