Orientation Report – Week 1

Name: Joori Ahmed Shareef

Company: Jedco

Department: Business Applications – Data Center 2

Duration: 30 hours

1. Introduction

The first week of internship involved orientation activities focused on understanding the structure of Jedco, the scope of the ongoing Data and Analytics Project (Batch #1), and the role of the Business Applications department under the IT division.

2. Company & Department Structure

Jedco is a company specializing in aviation and logistics solutions. The IT Division is one of the core departments, responsible for supporting technology infrastructure and data solutions. Within the IT Division, the Business Applications department plays a key role in delivering data-driven tools and platforms, including dashboards, reporting systems, and analytics applications.

3. Project Overview & Scope

The main focus of the current project is to enhance decision-making by:
- Standardizing KPI definitions.
- Automating data integration.
- Improving reporting tools.
- Ensuring compliance with data governance standards.
- Implementing advanced analytics capabilities using platforms like Dataiku.

Key deliverables of the project include:
• Up to 12 business intelligence dashboards.
• Up to 8 operational reports.
• 25 data quality rules.
• 2 machine learning use cases using Dataiku.

4. Data Warehouse Architecture

Jedco Data Warehouse Architecture consists of several main stages:

1. Data Sources : Includes AMS data (operations), ERP data (finance, HR), and manual data (SharePoint).

2. Data Integration: Handled by Informatica for extracting and staging data.

3. Data Storage: Uses PostgreSQL for staging and storing data; includes quality checks using Informatica.

4. Data Consumption: Tools such as Dataiku (advanced analytics), Microsoft SQL Server (BI services), and Power BI (dashboarding) are used.

5. Functional Requirements Summary

• KPI Standardization: Ensures consistency of business metrics across departments.
• Data Integration: Involves extraction and transformation from various sources like SAP, AMS, and manual inputs.
• Automated Reporting: Power BI dashboards provide both real-time and historical insights.

6. My Role as an Intern

As an intern, I participated in orientation activities, studied documentation related to the Data and Analytics Project, and observed the roles and responsibilities within the Business Applications team. I also explored the fundamentals of the data warehouse architecture and the tools used in the project, such as Dataiku and Power BI.

jedco Jeddah Airports