Project

Planning &Management

Supply Chain Project

Presented by:
Soha Salama Sofia Safwat
Marina Maher Yolyana Nabil
Remonda Ashraf

Supervisor:
Dr.Amal Mahmoud
2025

1. Project Proposal

·**Overview:** A comprehensive analysis of the supply chain to identify inefficiencies, optimize operations, and improve overall performance.
·**Objectives:**
o identify cost-saving opportunities.
o Enhance supplier efficiency and product focus.
o Provide actionable recommendations for data-driven decision-making.
·Scope: The project covers supplier performance, product revenue analysis, customer demographics, and the use of data analytics tools (Excel, Power BI, Tableau, and Python).

2. Project Plan

Timeline: A detailed Gantt chart outlines the project phases, including:
• Data Collection, Cleaning, Preprocessing and Modeling: 3 weeks (Sofia Safwat)
• Data Modeling and Conducting in-depth analysis using Excel: 3 weeks (Soha Salama).
• Power BI Analysis: 10 days (Remonda Ashraf)
• Developing interactive dashboards using Power BI (10 days). 10 days (Marina Maher).
• Tableau Dashboards: 10 days (Yolyana Nabil)
• Reporting: Compiling findings and recommendations into a final report.

·**Milestones**: Key deliverables include:
o Completion of data cleaning and preprocessing.
o Development of Excel, Power BI, and Tableau dashboards.
o Submission of the final report with actionable insights.

· **Resource Allocation:**
o Tools: Excel, Power BI, Tableau, and Python for data cleaning, analysis and visualization.
o Team Members: Allocation based on expertise and project requirements.

3. Task Assignment & Roles

Sofia Safwat (Team Leader): Data Collection, Cleaning, Preprocessing and Modeling
▪ Soha Salama: Data modeling, Excel analysis and dashboard development. ▪ Remonda Ashraf: Power BI analysis.
▪ Marina Maher: Power BI dashboard development.
▪ Yolyana Nabil: Tableau analysis.

• Project Manager: Oversee timelines, deliverables, and team coordination.
o Team Member: Sofia Safwat (Team Leader).
• Domain Experts: Provide insights into supply chain operations and validate findings.
o Team Members: All team members contribute based on their expertise.

Task Timeline
·Cleaning and Preprocessing: 3 weeks (Sofia Safwat).
·Excel Analysis: 3 weeks (Soha Salama).
·Power BI Analysis: 10 days (Remonda Ashraf).
·Power BI Dashboards: 10 days (Marina Maher).
·Tableau Analysis: 10 days (Yolyana Nabil)

4. Risk Assessment & Mitigation Plan

1. Identified Risks

Data Quality Issues: Challenges such as missing values, outliers, or inconsistent
data may affect the accuracy of the analysis.

• Delays in Data Collection or Analysis: Potential delays in gathering data or completing analysis tasks could impact project timelines.

• Technical Challenges: Difficulties in integrating or using tools like Excel, Power BI, Tableau, or Python may arise.

2. Mitigation Strategies

•Robust Data Cleaning: Implement thorough data cleaning and validation processes to address missing values, outliers, and inconsistencies, ensuring high-quality data for analysis.

• Contingency Timelines: Establish backup timelines for critical tasks to accommodate potential delays and keep the project on track.

.• Training and Support: Provide training and technical support to team members to overcome challenges related to tool integration and usage, ensuring smooth project execution.

5. Key Performance Indicators (KPIs)

- **Response Time:** Time taken to address supply chain inefficiencies.
- **System Uptime:** Availability of real-time dashboards for monitoring.
- **User Adoption Rate:** Percentage of stakeholders utilizing data-driven insights for decision-making.
- **Cost Savings:** Reduction in operational costs achieved through optimized processes.
- **Revenue Growth:** Increase in revenue from targeted product categories and demographics.