**Project Initialization and Planning Phase**

| Date | 23 June 2025 |
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| Team ID |  |
| Project Name | Global Food Production Trends and Analysis (1961–2023) Using Power BI |
| Maximum Marks | 3 Marks |

**Define Problem Statements (Customer Problem Statement Template):**

The world’s food production has experienced dramatic changes over the past six decades, driven by population growth, technological advancements, regional specializations, and changing consumption patterns. However, the raw data on agricultural production, spread across multiple countries and commodities from 1961 to 2023, is often vast, complex, and difficult to interpret without advanced analytics.

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| **Problem**  **Statement (PS)** | **I am**  **(Farmer)** | **I’m trying to** | **But** | **Because** | **Which makes me feel** |
| PS-1 | A global policy analyst | Compare food production trends across countries to identify regions at risk of shortages | Current data is scattered across multiple sources and not integrated | Each dataset follows different formats, units, and timelines | Frustrated and slowed down in providing timely, evidence-based policy recommendations |
| PS-2 | A supply chain manager for an agri-business | Forecast supply-demand gaps for major commodities (e.g., wheat, rice, maize) | Existing dashboards only show historical production, not predictive insights | Because they lack advanced analytics, scenario modeling, and real-time updates | Unsure about making accurate procurement and logistics decisions |
| PS-3 | A researcher studying climate impact | Understand how climate change affects food production trends globally | Available tools don’t link climate variables (rainfall, temperature) with production data | Because production and climate datasets are siloed | Limited in drawing clear correlations and publishing impactful research |
| PS-4 | A government agriculture officer | Track national food security and self-sufficiency levels | Existing reports are delayed and descriptive, not actionable | Because manual compilation and verification take too long | Unable to act quickly to address food shortages |
| PS-5 | An NGO focused on nutrition | Identify countries with high production but low food availability to target aid programs | Global food production data doesn’t directly connect with consumption or distribution gaps | Because post-harvest loss, exports, and accessibility factors are not included | Helpless in ensuring food reaches vulnerable populations |

A screenshot of a customer problem statement template

AI-generated content may be incorrect.