**Power BI Data Model Documentation**

**Project:** Panama Economic Growth & FDI Analysis  
**Objective:** To analyze Panama’s GDP growth trends, sectoral contributions, foreign direct investment (FDI) patterns, and regional economic performance using national accounts and investment datasets.

**1. Panama’s GDP by Economic Sector**

* **Source:** INEC Panama – National Accounts by Sector :**(****CUENTAS ESPECIALES-**

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| **Serie Homogénea 1996-2022, con año de referencia 2018** |  |

**1996-2022)**

* **Purpose:** Tracks the annual GDP contribution by each sector.
* **Columns:**
  + Sector: Name of the economic sector
  + Year: Reporting year
  + GDP: GDP value (likely in million USD or Balboas)

**2. Panama’s\_Quarterly\_GDP:(****PIB TRIMESTRAL**

**-PRODUCTO INTERNO BRUTO TRIMESTRAL, A PRECIOS CORRIENTES Y CONSTANTES CON AÑO DE REFERENCIA 2018: AÑOS 2018-23, PRIMER , SEGUNDO Y TERCER TRIMESTRE DE 2024.)**

* **Source:** INEC Panama – Quarterly National Accounts
* **Purpose:** Analyzes Panama’s short-term economic performance on a quarterly basis.
* **Columns:**
  + Quarter: Time period (e.g., 2023Q1)
  + Sector: Economic sector
  + GDP: GDP for the given quarter

**3. Panama’s\_Annual\_GDP:(PIB ANUAL -Avance de Cifras del Producto Interno Bruto: 2018- 2023)**

* **Source:** INEC Panama – Annual GDP totals
* **Purpose:** Tracks Panama's overall annual GDP performance across all sectors.
* **Columns:**
  + Sector: Aggregated or total economy
  + Year: Reporting year
  + Annual\_GDP: Total GDP per year

**4. FDI\_by\_Economic\_Activity: (**

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| **FLUJO DE INVERSIÓN EXTRANJERA DIRECTA (IED) EN LA REPÚBLICA, SEGÚN ACTIVIDAD ECONÓMICA: AÑOS 2017-23** |  |

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* **Source:** INEC Panama Comercio e Industrias – FDI by Sector
* **Purpose:** Tracks foreign direct investment into Panama by sector and year.
* **Columns:**
  + Sector: Sector receiving investment
  + Year: Reporting year
  + FDI\_Amount: Amount of investment received

**5. FDI\_Top\_10\_Countries: (Inversión Extranjera Directa (IED, según sector, país y actividad económica)-FLUJO DE INVERSIÓN EXTRANJERA DIRECTA (IED) DE LOS 10 PRINCIPALES PAÍSES EN LA REPÚBLICA: AÑOS 2017-23**

* **Source:** INEC Panama database
* **Purpose:** Identifies top 10 foreign countries investing in Panama.
* **Columns:**
  + Year: Reporting year
  + Country: Origin country of FDI
  + FDI\_Amount: Investment value

**6. Gross\_Value\_Added\_at\_Basic\_Price: (CUENTAS ESPECIALES**

**-Valor Agregado Bruto, por Sector Económico: Años 2018-22)**

* **Source:** INEC Panama – Value Added Accounts
* **Purpose:** Measures the net output of each sector after deducting intermediate consumption.
* **Columns:**
  + Sector: Name of the sector
  + Year: Reporting year
  + GVA: Gross value added

**7. Panama’s\_Provincial\_GDP :(****PIB PROVINCIAL-**

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| **CIFRAS ESTIMADAS DEL PRODUCTO INTERNO BRUTO PROVINCIAL 2018-2023)** |  |

* **Source:** INEC Panama – Regional GDP Statistics
* **Purpose:** Analyzes GDP contribution by province or region.
* **Columns:**
  + Year: Reporting year
  + Province: Name of province
  + GDP: GDP value by province

**8. BridgeTableYear**

* **Source:** Manually created table in Power Query
* **Purpose:** Serves as a date dimension to support consistent relationships and filtering across all year-based tables.
* **Columns:**
  + Yearly: List of years (e.g., 1996–2025)

**9. BridgeTableQuarter**

* **Source:** Manually created table in Power Query
* **Purpose:** Provides consistent quarter identifiers for time intelligence.
* **Columns:**
  + Quarters: e.g., 2023Q1, 2023Q2, ...

**10. DimSector**

* **Source:** Dimension table created from sector master list
* **Purpose:** Ensures consistent naming and filtering across tables that use the Sector column.
* **Columns:**
  + Sector: Unique list of sector names

**Relationships Overview**

* Many-to-One relationships from fact tables to:
  + BridgeTableYear on Year
  + BridgeTableQuarter on Quarter
  + DimSector on Sector