## **README — Enterprise GenAI Adoption Impact**

## **Purpose**

This dataset captures enterprise-level Generative AI adoption and impact — including workforce, training, and productivity metrics.  
 It is cleaned, structured, and normalized into 3NF for relational database integration.  
 No synthetic data is generated and missing values are preserved exactly as provided.

### **Input**

**Source file:** Enterprise\_GenAI\_Adoption\_Impact.csv

| **Column** | **Type** | **Description** |
| --- | --- | --- |
| Company Name | Text | Organization name |
| Industry | Text | Industry sector |
| Country | Text | Country of operation |
| GenAI Tool | Text | Generative AI platform used |
| Adoption Year | Integer | Year of adoption |
| Number of Employees Impacted | Integer | Workforce affected |
| New Roles Created | Integer | New positions created |
| Training Hours Provided | Integer | Total training hours |
| Productivity Change (%) | Float | Reported productivity impact |
| Employee Sentiment | Float | Sentiment score from internal feedback |

### **Output (3NF)**

| **File** | **Table** | **Description** |
| --- | --- | --- |
| GenAI\_3NF\_dim\_company.csv | dim\_company | Unique companies |
| GenAI\_3NF\_dim\_industry.csv | dim\_industry | Unique industries |
| GenAI\_3NF\_dim\_country.csv | dim\_country | Unique countries |
| GenAI\_3NF\_dim\_tool.csv | dim\_tool | AI tools used |
| GenAI\_3NF\_fact\_genai\_impact.csv | fact\_genai\_impact | Fact table linking IDs + metrics |

All tables are UTF-8 encoded, with consistent column headers and no dropped records.

### **Database Schema (3NF)**

CREATE TABLE dim\_company (

company\_id TEXT PRIMARY KEY,

company\_name TEXT

);

CREATE TABLE dim\_industry (

industry\_id TEXT PRIMARY KEY,

industry TEXT

);

CREATE TABLE dim\_country (

country\_id TEXT PRIMARY KEY,

country TEXT

);

CREATE TABLE dim\_tool (

tool\_id TEXT PRIMARY KEY,

genai\_tool TEXT

);

CREATE TABLE fact\_genai\_impact (

record\_id TEXT PRIMARY KEY,

company\_id TEXT REFERENCES dim\_company(company\_id),

industry\_id TEXT REFERENCES dim\_industry(industry\_id),

country\_id TEXT REFERENCES dim\_country(country\_id),

tool\_id TEXT REFERENCES dim\_tool(tool\_id),

adoption\_year INT,

employees\_impacted INT,

new\_roles\_created INT,

training\_hours INT,

productivity\_change FLOAT,

employee\_sentiment FLOAT

);

**Relations:**

dim\_company (1)

dim\_industry (1)

dim\_country (1)

dim\_tool (1)

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└──< fact\_genai\_impact

### **Loading (PostgreSQL Example)**

\copy dim\_company FROM 'GenAI\_3NF\_dim\_company.csv' CSV HEADER;

\copy dim\_industry FROM 'GenAI\_3NF\_dim\_industry.csv' CSV HEADER;

\copy dim\_country FROM 'GenAI\_3NF\_dim\_country.csv' CSV HEADER;

\copy dim\_tool FROM 'GenAI\_3NF\_dim\_tool.csv' CSV HEADER;

\copy fact\_genai\_impact FROM 'GenAI\_3NF\_fact\_genai\_impact.csv' CSV HEADER;

### **Data Quality & Integrity**

| **Check** | **Result** |
| --- | --- |
| Missing values preserved as blanks | Done |
| UTF-8 encoding | Done |
| Primary & foreign keys consistent | Done |
| Numeric fields typed correctly | Done |
| Referential integrity across tables | Done |

### **Developer Notes**

* Each dimension uses 8-character UUID keys.
* The fact table retains all original values — no imputation, no deletion.
* Compatible with EUROSTAT\_load\_db, Sentiment\_3NF, and AI\_CapScan\_3NF schemas.
* Perfect for analytical joins across companies, countries, industries, and AI tools.