# PORTFOLIOGENERALINFORMATION Table Synthetic Data Generation

Overview & Purpose

The PORTFOLIOGENERALINFORMATION script creates synthetic portfolio-level metadata aligned to alternatives products.   
It links portfolios to products using PRODUCTCODE and provides key attributes for factsheets (name, investment style, category, currency, inception/termination).   
PORTFOLIOCODE serves as the primary key and is reused across holdings, performance, attribution, and benchmark association tables.

Technical Design & Methodology

• YAML-driven lists for investment\_styles, portfolio\_categories, currency\_map; single asset class focus maintained upstream in PRODUCTMASTER.  
• PRODUCTCODEs loaded from product\_codes.csv to guarantee downstream joinability.  
• Faker-built names follow institutional naming (“<Company> <Style> Strategy”).  
• Date logic enforces OPENDATE < PERFORMANCEINCEPTIONDATE ≤ TERMINATIONDATE (or allow NULL termination for active portfolios).  
• Output standardized for Snowflake: uppercase columns, ISO dates.

Execution Instructions

1) Ensure portfolio\_config.yaml (lists) and product\_codes.csv (FK continuity) are present.  
2) Execute the script to create NUM\_ROWS portfolios; preview DataFrame.  
3) Save to CSV (synthetic\_alternatives\_portfolios.csv) and/or load to Snowflake with MERGE on PORTFOLIOCODE.  
4) Optionally, generate qualitative text later using PORTFOLIOCODE + PRODUCTNAME for commentary tables.

Outputs & Schema

Columns: PORTFOLIOCODE, NAME, INVESTMENTSTYLE, PORTFOLIOCATEGORY, OPENDATE, PERFORMANCEINCEPTIONDATE, TERMINATIONDATE,   
BASECURRENCYCODE, BASECURRENCYNAME, ISBEGINOFDAYPERFORMANCE, PRODUCTCODE.   
These fields directly support factsheet profile sections, date banners, and currency displays.

Integration with Other Tables

• PORTFOLIOGENERALINFORMATION → HOLDINGSDETAILS via PORTFOLIOCODE  
• PORTFOLIOGENERALINFORMATION → PORTFOLIOPERFORMANCE via PORTFOLIOCODE  
• PORTFOLIOGENERALINFORMATION → PORTFOLIOBENCHMARKASSOCIATION via PORTFOLIOCODE  
This forms the spine for portfolio-level analytics and presentation.

Testing & QA Use Cases

• Ensure no orphan PRODUCTCODEs and that currency codes/names pair correctly.  
• Validate name/formatting constraints (length, special characters) for UI templates.  
• Check logical date ordering and edge cases (recent inception, terminated portfolios).

Next Steps & Recommendations

• Add regulatory identifiers (if applicable) and region tags for filtering.  
• Implement change capture to audit metadata updates over time.  
• Auto-generate sample benchmark associations for new portfolios to enable end-to-end QA quickly.