This document describes the configuration of a NiFi pipeline that fetches data from an external API (uselessfacts.jsph.pl) and stores it into a PostgreSQL table (etl).

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Controller Service: PostgreSQL

- JDBC URL: jdbc:postgresql://postgres:5432/airflow

- Driver Class: org.postgresql.Driver

- Driver Path: /opt/nifi/nifi-current/lib/custom/postgresql-42.7.5.jar

- Database User: airflow

- Password: airflow

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ExecuteSQL

Query:

CREATE TABLE IF NOT EXISTS etl (

id VARCHAR(255) PRIMARY KEY,
```

- Database Connection Pooling Service: DBCP connection pool
- Relationship: terminate (except for success)

text TEXT NOT NULL,

source_url TEXT,

permalink TEXT

source VARCHAR(255),

language VARCHAR(10),

);

API Endpoint

- URL: https://uselessfacts.jsph.pl/api/v2/facts/random ---InvokeHTTP - Relationship: terminate (all except for response) ---EvaluateJsonPath Properties: - id -> \$.id - language -> \$.language - permalink -> \$.permalink - source -> \$.source - source_url -> \$.source_url - text -> \$.text - Relationship: terminate (all except for matched) PutDatabaseRecord - Record Reader: JsonTreeReader - Database Type: PostgreSQL - Statement Type: upsert - Database Connection Pool: DBCP connection pool - Update Keys: id - Relationship: terminate (all)

Data Flow Summary

- 1. ExecuteSQL -> Ensures etl table exists in PostgreSQL.
- 2. InvokeHTTP -> Fetches random fact JSON from API.
- 3. EvaluateJsonPath -> Extracts relevant fields from JSON response.
- 4. PutDatabaseRecord -> Inserts/updates records in PostgreSQL.