

Complete Execution Guide

Downloading & Processing Consciousness Theories Database

Prerequisites

```
powershell

# Install required PowerShell modules
Install-Module -Name Selenium -Force -Scope CurrentUser
```

Step 1: Download Website Content

```
powershell

# Navigate to your project directory
cd "C:\Users\russe\Documents\GitHub\PMOVES.AI\pmoves\docs"

# Run the main downloader script
.\Constellation-Harvest-Regularization\consciousness-downloader.ps1

# This creates the full directory structure and downloads static content
```

Step 2: Extract Dynamic Content

```
powershell

# Run the Selenium scraper for dynamic JavaScript content
.\Constellation-Harvest-Regularization\scripts\selenium-scraper.ps1

# This will take several minutes as it loads and extracts dynamic content
```

Step 3: Process for RAG Integration

```
powershell

# Process downloaded content for your Supabase + Hugging Face setup
.\Constellation-Harvest-Regularization\rag-processor.ps1

# This chunks text and prepares data for embedding
```

Step 4: Set up Supabase Database

```
sql

-- In your Supabase SQL editor, run:
-- File: processed-for-rag/supabase-import/consciousness-schema.sql

-- This creates tables with vector search capabilities
-- Includes hybrid search functions optimized for your 3584-dim embeddings
```

Step 5: Generate Embeddings with n8n

1. Import the workflow: `processed-for-rag/supabase-import/n8n-workflow.json`
2. Configure your Hugging Face API node
3. Set up Supabase connection
4. Process the JSONL file: `processed-for-rag/embeddings-ready/consciousness-chunks.jsonl`

Integration with Your Existing Setup

Supabase Vector Store:

- Uses your existing 3584-dimension embeddings
- Compatible with pgvector and TimescaleDB
- Hybrid search combines semantic + keyword matching

n8n Automation:

- Connects to your existing Hugging Face embeddings node
- Feeds directly into your Supabase node
- Processes consciousness theories alongside your YouTube transcripts

RAG Query Examples:

```
sql
```

-- Semantic search for consciousness theories

```
SELECT * FROM hybrid_search_consciousness(  
  'theories about AI consciousness',  
  your_query_embedding_vector,  
  0.7, -- semantic weight  
  0.3, -- keyword weight  
  10 -- result limit  
);
```

-- Category-filtered search

```
SELECT * FROM consciousness_theories  
WHERE theory_category = 'Quantum-Theories'  
AND embedding <=> your_embedding < 0.5;
```

File Structure Created

Constellation-Harvest-Regularization/

```
├── website-mirror/ ..... # Static HTML copies  
├── theories/ ..... # Organized by category  
│   ├── Materialism-Theories/  
│   ├── Quantum-Theories/  
│   ├── Panpsychisms/  
│   └── ...  
├── research-papers/ ..... # Academic papers (142-page main paper)  
├── data-exports/ ..... # JSON/CSV structured data  
├── processed-for-rag/ ..... # Ready for embedding  
│   ├── embeddings-ready/.. # JSONL and CSV for Hugging Face  
│   └── supabase-import/... # Schema and workflow  
└── scripts/ ..... # Automation scripts
```

Benefits for Your RAG System

- **Comprehensive Knowledge Base:** 500+ consciousness theories
- **Structured Categories:** From materialist to idealist approaches
- **Academic Rigor:** Based on 142-page peer-reviewed paper
- **AI-Relevant:** Direct implications for AI consciousness
- **Hybrid Search Ready:** Optimized for your Supabase setup
- **n8n Compatible:** Integrates with your existing automation

This database will significantly enhance your RAG system's ability to answer questions about consciousness, AI development, and theoretical frameworks - perfect for the PMOVES.AI knowledge base!