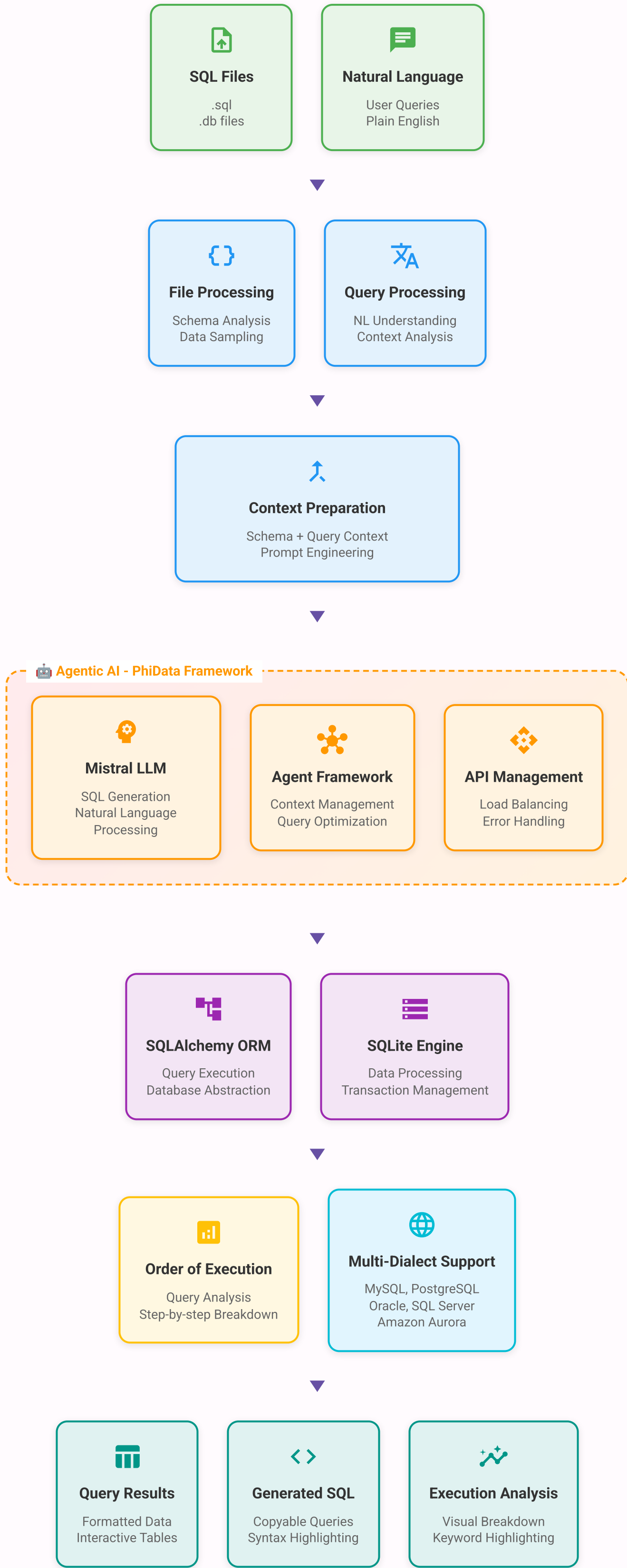
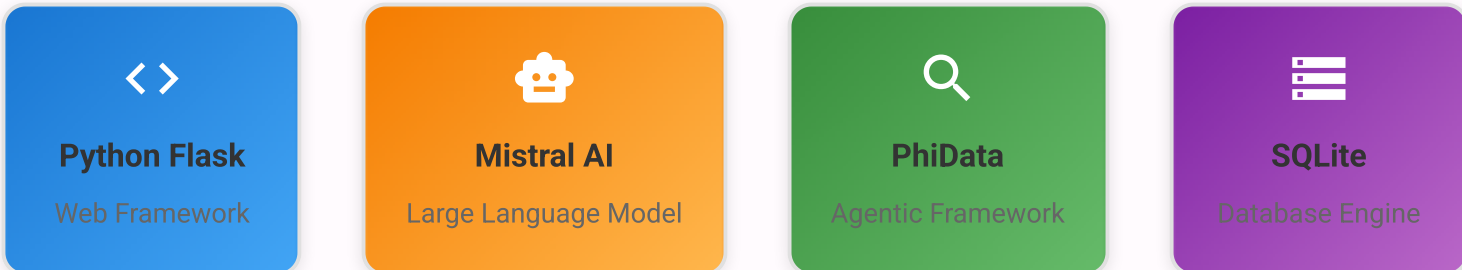


🧑‍🔬 SQL Assistant Architecture

Agentic AI-Powered Database Query Tool - Technical Overview



<> Technology Stack



📌 System Features & Capabilities

📁 Input Processing

- Natural Language
- SQL Files
- Database Files
- Schema Analysis

🧠 AI Processing

- Mistral LLM
- PhiData Agents
- Context Management
- SQL Generation

🗄️ Data Handling

- SQLAlchemy ORM
- SQLite Engine
- Multi-DB Support
- Query Execution

📄 Output Features

- Interactive Tables
- Query Copy
- Real-time Results
- Error Handling

📊 Order of Execution

- Query Analysis
- Step-by-step Breakdown
- Keyword Highlighting
- Visual Progress

🌐 Multi-Dialect Support

- MySQL
- PostgreSQL
- Oracle
- SQL Server
- Amazon Aurora