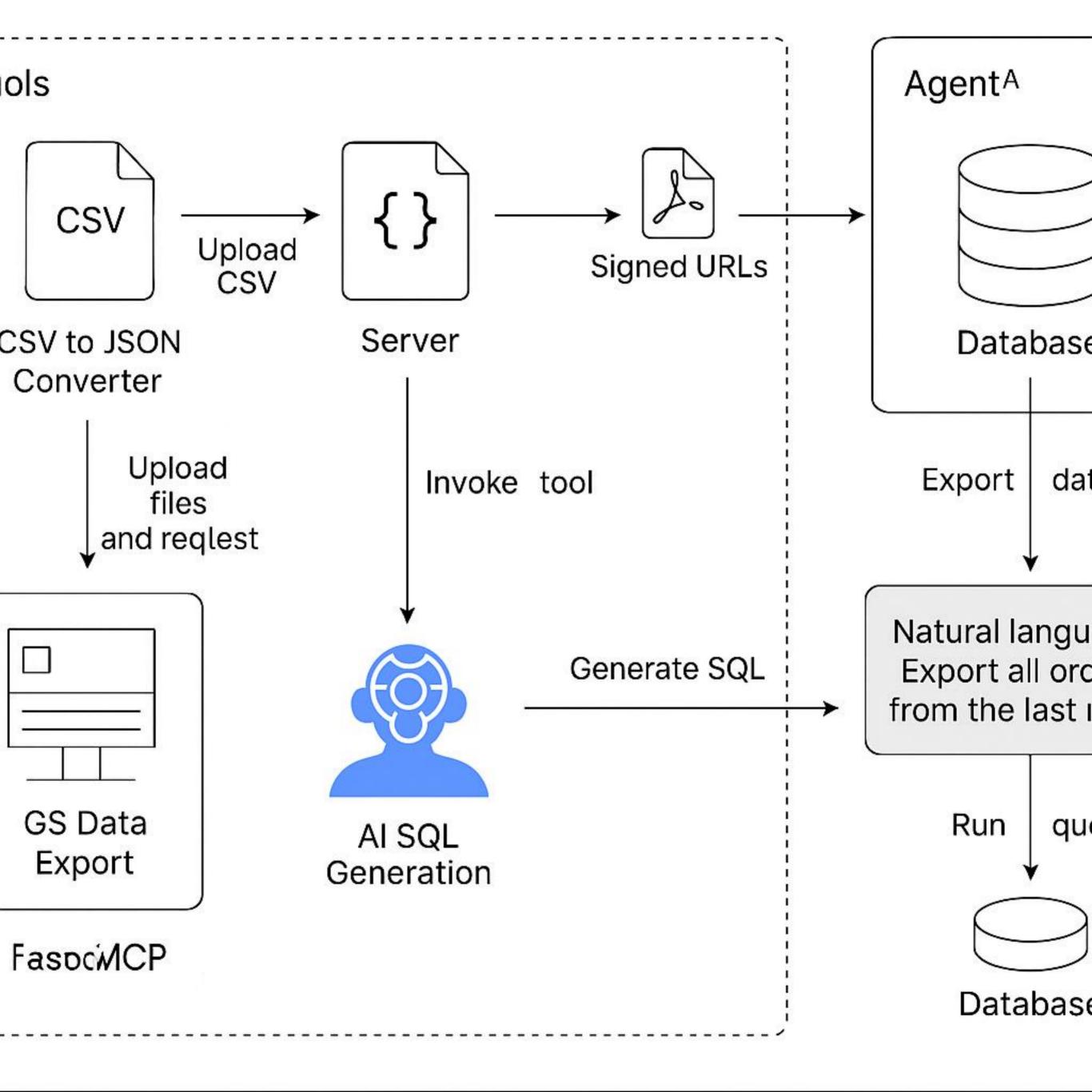
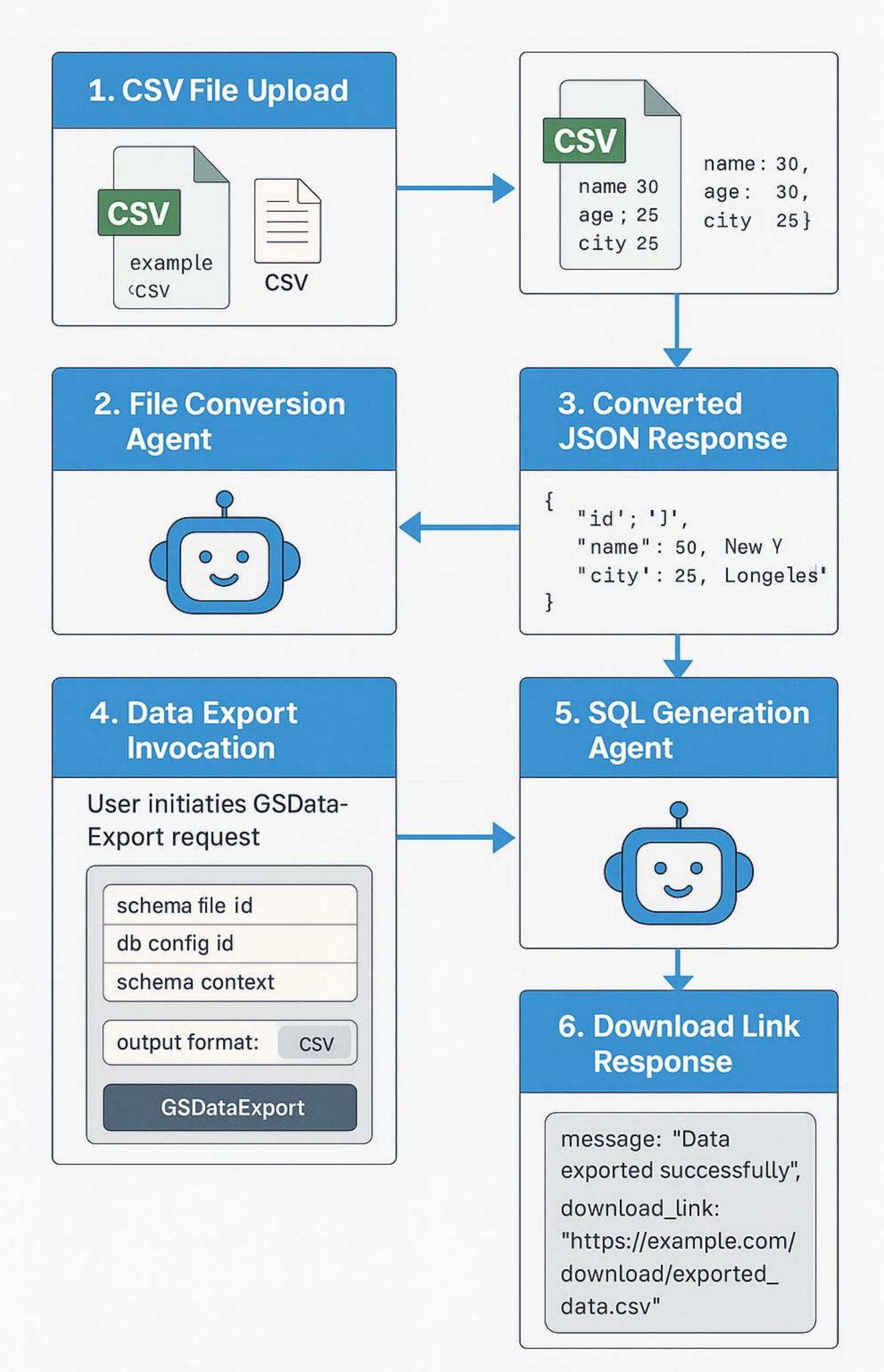


# Golden Sapphire MCP POC

USER GUIDE





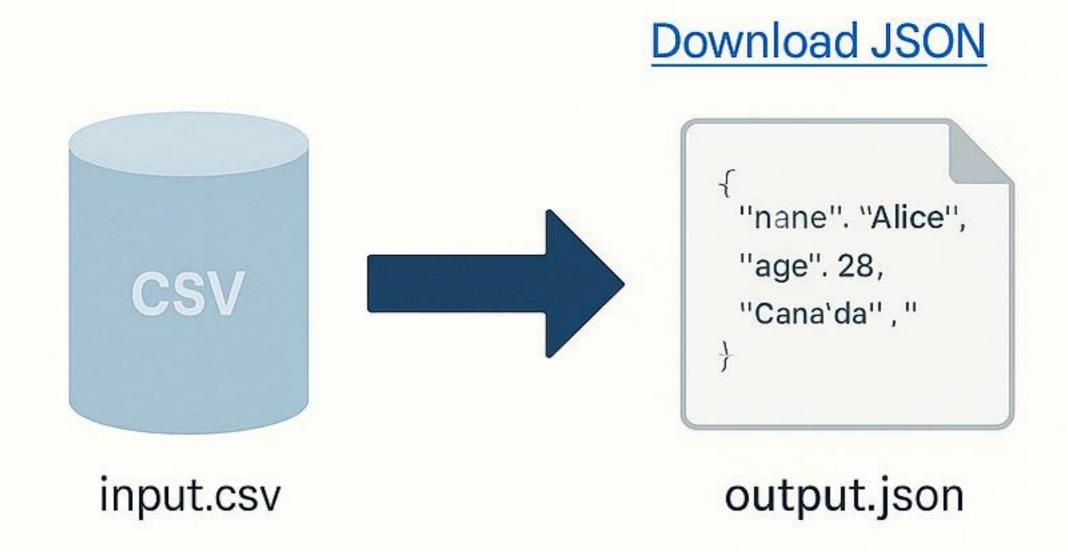
# Usage Guide for Motorcortex Projects: CSV to JSON Conversion and Data Export MCP Tools with GenAl Integration

# 2. CSV to JSON Conversion

Function Name: csv\_to\_json

Description: Converts an uploaded CSV file to a JSON format and provides a download link for JSON file,

Input Parameters: file\_id (str): The ID on uploaded CSV file



# **Converting CSV to JSON**

The csv\_to\_json tool user JSON to json worts uploaded CSV file to JSON format. Drag and-drop a CSV file name example.csv.



# **Exporting Database Data**

The gs-data-export tool makes rxporting database data by translating natural language queries into SQL, executing them on a user-specified database, and saving the results to their format.

# Usage Documentation

# ETL Tool Implementation

This documentation provides an in-depth guide on implementing an ETL tool composed of two main processes, a) Converting CSV to JSON, and b) Exportin data from a database based on a natural language reguest. Each tool has been implemented as an MCP tool for modular integration and automation. The following outlines their functionalities and usage.

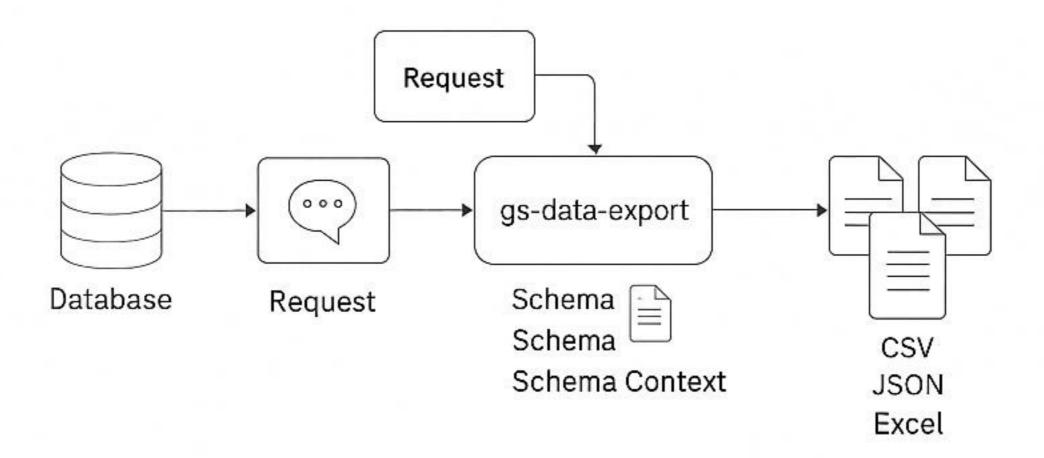
#### **CSV to JSON Conversion Tool**

The CSV to JSON conversion tool, titled csv-to-json, is designed to efficiently convert CSV files into JSON format. Below is the interface for usag in this tool:



### Data Export Tool

The gs-data, export tool is designed to output data from a database in CSV, JSON, or Excel format based on schema definitions and natural language queries



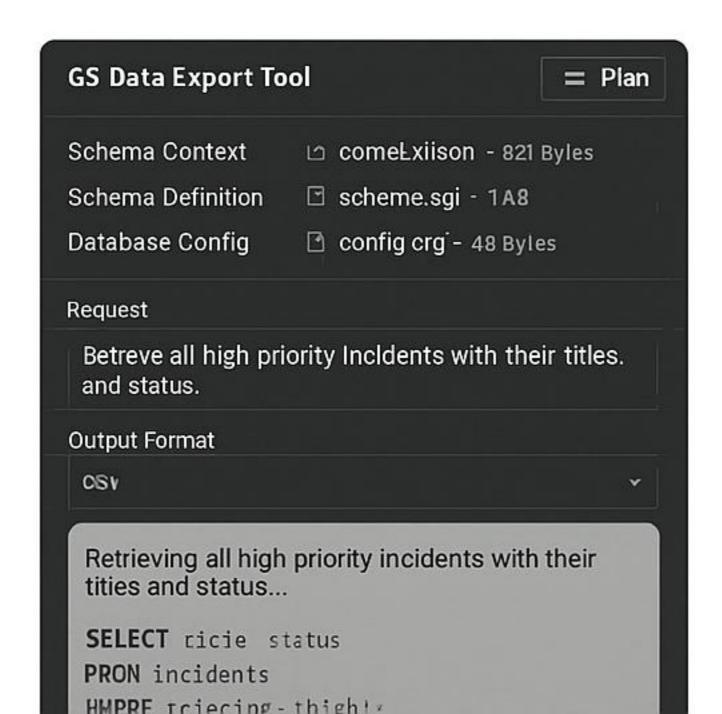
# Understanding 'gs-data-export'

Parameter	Description
schema_context file_id	File iD for the context file defining allases and descriptions prematched to your database tables and columns.
schema_file_id	File iD for the raw schema file, which containtain either a SQL file with create table definitions, or a JSON file with a structured representation of the database schema,
db_config_file_id	File iD for the configuration file containing a database connection URL.
request	A natural language query descibing the data you want extract.
output_format	Specifys the desired export format (csv, json, or excel).

The 'gs-data-export' tool is designed to process a natural language query into a structured SQL command specifically tailored to your database schema. By up uploading schema context and schema definition files' the tool has the information it needs to understand your database structure. The resulting data is then exported in the format of your choice.

# Using the Tool with Natural Language Queries

The CS Data Export Tool allows users to interact with their database using natural language. Here's an illustrative example demonstrating a data query:



# **Usage Documentation**

# Data-to-JSON Conversion (cont'd)

#### **TOOL OVERVIEW**

This tool is designed to convert CSV data into JSON format. by upload a CSV file and processing it.<sup>2</sup>.

#### 1 Uploading a CSV File

Step 1: Initiate a new conversation, then upload a CSV file.



#### 2 Running the Conversion

Step 2: The tool processeso-generes the uploaded CSV file and generates a download link for converted JSON.



# **Data Export Tool**

#### **TOOL OVERVIEW**

This tool respond to requests by querying a database and exports the results.

Supported output formats range CSV, JSON, Excel.

### 1 Preparing Schema Files and a Database Configuration

Step 1: Start a new conversation, attach two prepared files: to attach two

- JSON representation of table schemas
- Database configuration file

