n8n Cheat Sheet for Data Pipeline (Eng ver)

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Type	Node icon	Node Name (Action)	Core Features	Output	Key parameters	Additional Parameters (Options)	Usage examples
Trigger		Trigger Manually	Workflow Testing	-	-	-	For testing purposes
		Schedule Trigger	Periodic workflow execution	-	Interval, Betweent Trigger, Trigger at Hour/Min	-	Load data in batch format daily
		Webhook	Receive webhook signals and execute workflows	-	URL, Method, Path, Authetication, Response	Response Code, Body, Header etc..	Email when registering CS inquiry
		On form submission	Start a workflow when a user submits a form	-	URL, Authetication, Title, description, Element, Response When	-	Once you submit the questionnaire, it will be added to your Google Calendar.
Data Input		HTTP Request	Collect data from external APIs or web pages	JSON/XML response data, status code, and response headers	Method, URL, Authentication	Query Parameters, Headers, Timeout Pagination etc..	Retrieving JSON data from a specific API for analysis
		Google Sheets (Get Row in Sheets)	Create, delete spreadsheets, create, delete, clear sheets, add rows, import, update	Array of row data, cell values, and sheet metadata	Credentials, Resource, Operation	-	Import survey responses from Google Sheets
		MySQL	Retrieve or update data by executing SQL queries directly on the database.	Array of query results, number of affected rows, Insert ID	Credentials, Operation, Table	Parameters Timeout Continue on Fail	Extract specific customer information using SQL queries
		Notion	Importing a Notion Database	Result value in Key Value format	Credentials, Operation, Table	-	Importing data stored in Notion
Data Processing		Extract from file	Extract and convert binary file data	Object/array, parsed data	Operation(CSV, HTML, JSON, xlsx etc), Input Binary Field	CSV: Delimiter, Encoding, Header Row	Extract data from CSV files
		Edit Fields	Change field names or convert values within fields	Row-by-row data, changed field struct	Mode(Manual Mapping, JSON)	Include Other Input Fields	Change the "product_price" field to "price" and remove the currency symbol.
		Split Out	Split a single nested item into multiple items	Row-wise data, separated arrays	Filed to Split Out, Include	-	Converting nested XML data into columns (Object -> Array)
		Aggregate	Split's inverse function, grouping	Row-wise data, grouped results, aggregate values	Aggregate(Individual, All Items),Input Field Name	Disable Dot Notation, Merge Lists etc..	-
		Filter	Filtering data based on conditions (SQL-Where)	Row-by-row data, filtered records	Conditions	Ignore case	Extract product data above a certain price
		Summarize	Data grouping and aggregation	Aggregated values, summary statistics	Aggregation, Field, Field to Split By	Output Format etc..	Calculate monthly sales totals
		Remove Duplicates	Remove duplicate rows	Row-by-row data, deduplicated records	Operation(Current Input, Previous Execution, Clear History), Compare(All Field, Except, Selected Fields)	-	Remove duplicate submitted surveys
		Claude (Message)	Natural language queries	JSON response data	Credentials, Resource, Operation, Model, Message, Role	System Mesage, Code Execution, Web Search, Temperature etc ..	Generate comprehensive opinions about your data
		Gemini (Video)	Video creation	video	Credentials, Resource, Operation, Model, Message, Return as	Number of Videos, Duration, Person generation	Create a sunset video
		OPENAI (audio)	Audio generation	Audio	Credentials, Resource, Operation, Model, Message, Voice	Response Format, Audio Speed	Generate voice guidance samples
Worflow control		Code	Execute custom code	Row-wise data, calculated values, and transformed objects	Mode, Language(JavaScript, Python)	-	Combine multiple fields to create new calculations
		Wait	Delay workflow execution	Delayed output, timing control	Resume(Time Interval, Specific Time, webhook, Form submited), Wait Amount, Wait Unit	-	API request every 10 seconds
		Loop Over Items	Batch processing	Repeated processing results, loop state	Batch Size	Reset	Divide 1000 API requests into 1 request each
		Merge	Combine data from multiple nodes into a single list of items	Row-by-row data, merged objects	Mode(Append, Combine, SQL Query, Choose Branch), Number of Inputs	-	Merge data from two different APIs
		IF	Split workflow based on conditions	True / False	Condtitions(String, Number, Date&Time, Boolean, Array, Object)	Convert types where required	If the price is over $100, the discount is applied, otherwise the workflow continues as is.
		Switch	Splitting a workflow more complex than IF	Branched workflow, routing results	Mode(Rules, Expression), Routing Rules	-	Route data to Seoul, Gyeonggi, or Busan workflows based on the region field value.
Data Export		Convert to File	Save input data to a file	File path, success status, file information, binary file	Operation(CSV, JSON, xlsx etc), Put Output File in Field	CSV: Delimiter, File Name, Header Row	Save processed data as a CSV file
		Gmail (Send a message)	Send to Gmail	Transmission status, messages, and shipping information	Credential, Operation. From Email, To Email, Subject, Email Format, HTML	Append n8n Attribution, Attachments, CC/BCC etc..	After data processing is complete, results are sent by email.
		Slack (Send Message)	Send messages/files to Slack channels	Row and column data	Credential, Resource, Operation, Send Message To, Message Type, Message Text	Custom Bot Photo, Send as User	Notify your team Slack channel of data processing status