Node Guide: Select Rows

Overview

The **Select Rows** node is used to **retrieve data** from tables stored in the **Data Vault**. It supports both **manual SQL** and **visual query-building** modes, making it accessible to both technical and non-technical users.

Use this node to run select queries, test them during configuration, and store the results into agent variables for use in your automation flow.

What This Node Does

- Fetches data using SQL SELECT
- Offers a powerful query builder UI
- Validates and tests SQL statements
- Maps results into agent variables
- Enables dynamic data handling in your flows

Inputs

Accepts a **SQL query** in either query mode or UI mode to retrieve data from one or more tables in the Data Vault.

Outputs

- Fetched Rows: A variable to store the result set
- Number of Rows Fetched: A variable to store the count of rows retrieved
- Status: A variable indicating whether the query executed successfully or failed

Configuration

The node has two flexible modes for building and executing SQL queries:

1. Query Mode

- View a **list of tables** and their **schema** (column names and types)
- See available **agent variables** to insert into your query using {{variable_name}}
- Manually enter your **SQL query** in the editor
- Enter a natural language description and click Generate to auto-create a query using AI
- Click Validate to check for SQL syntax errors
- Click **Test** to preview the actual data returned from the query

2. UI Mode

- Choose one or more tables from a dropdown
- Select the **columns** you want to retrieve
 - o If no columns are selected, * is used
- Choose an **aggregation type** from the dropdown (optional)
- Provide an **alias** for each selected column (**mandatory**)
- Add SQL clauses visually:
 - o Join: INNER, LEFT, RIGHT, FULL
 - o Where: Add filter conditions
 - Group By and Having
 - o Order By: ASC or DESC
- Click Show SQL to view the auto-generated query

• Use **Test** to verify the query results

Example Flow

Use Case: You want to fetch all orders where the status is "Pending" and assign them to a support agent.

Flow Steps:

1. Select Rows Node

Write a query:

```
SELECT * FROM orders WHERE status = 'Pending'
```

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- Store results in pending_orders_list
- Store count in order_count
- Check status in query_status

2. Condition Node

If order_count > 0, proceed

3. For(Each) Node

Loop through pending_orders_list

4. Update Row Node

o Assign each order to a support agent

This flow ensures you dynamically pull pending orders and assign them without writing static data.

Description

The **Select Rows** node helps fetch structured data from your internal tables stored in the Data Vault. It supports both technical SQL users and non-technical users via its easy-to-use UI mode. It helps prevent flow failure by allowing you to **validate** and **test** your SQL during node configuration.

Use it when you need to:

- Retrieve data conditionally
- Drive decisions based on live data
- Feed downstream nodes with real-time values

Note: This node is for **data retrieval only**. To manipulate data, use **Insert**, **Update**, or **Delete** nodes.