Creating a New Database Table

When configuring a **Database** export node, you can either export data to an existing table or create a new one. To create a new table, click the **Create table** button next to the table selection field. This opens a window with two tabs:

- **Table fields**
- **SQL query**

▼ Example:

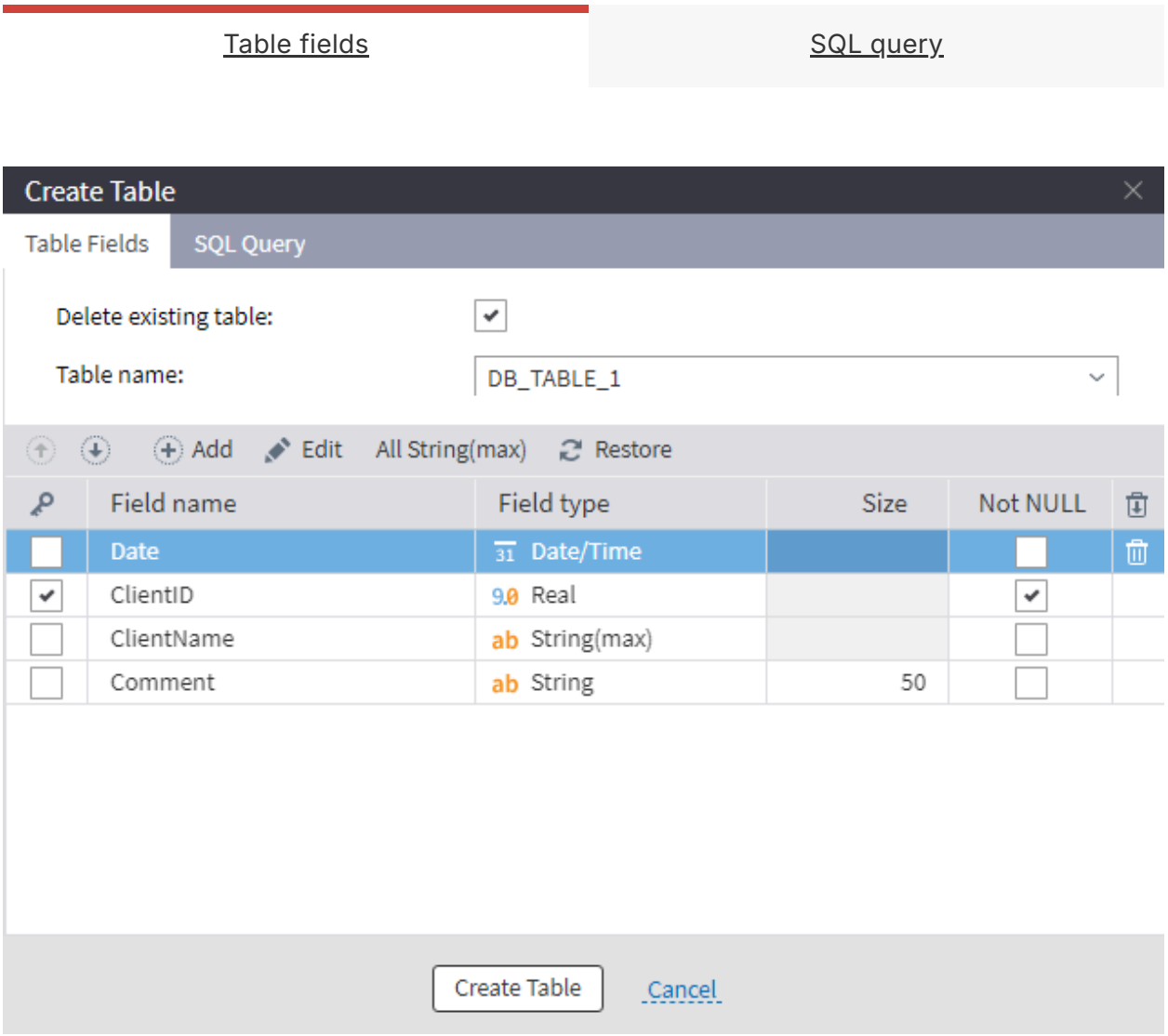


Figure 1. Configuring new table fields

Settings

Configure the following options:

- **Delete existing table**: If enabled, the system removes any table with the same name before creating the new one. It uses the command: `DROP TABLE IF EXISTS <TableName>` or an equivalent for databases that don't support `IF EXISTS`.
- **Table name**: Enter a unique name for the table. You can either type it manually or select it from the list of existing tables if you've enabled the `Delete existing table` option.
- **Table fields**: Define the fields using these parameters:
  - **Primary key**: Specify the primary key using the syntax: `CONSTRAINT <TableName>_PK PRIMARY KEY (FieldName1[... , FieldNameN])`. For ClickHouse, the system uses a sort key: `Engine = MergeTree() ORDER BY (FieldName1[... , FieldNameN])`.
  - **Name**: Enter the field name in a valid format.
  - **Data type**: Choose from the standard data types supported by Megaladata. You can also select `String(max)` for the maximum possible string length.
  - **Size** (for `string` fields only): Set the maximum string length. The default is `50`; adjust it to match your data.
  - **Not NULL**: Enforce a constraint to prevent null values in the field.

> **Important:** If the exported string exceeds the maximum length, the system will return an error.

Use these buttons to manage the field list:

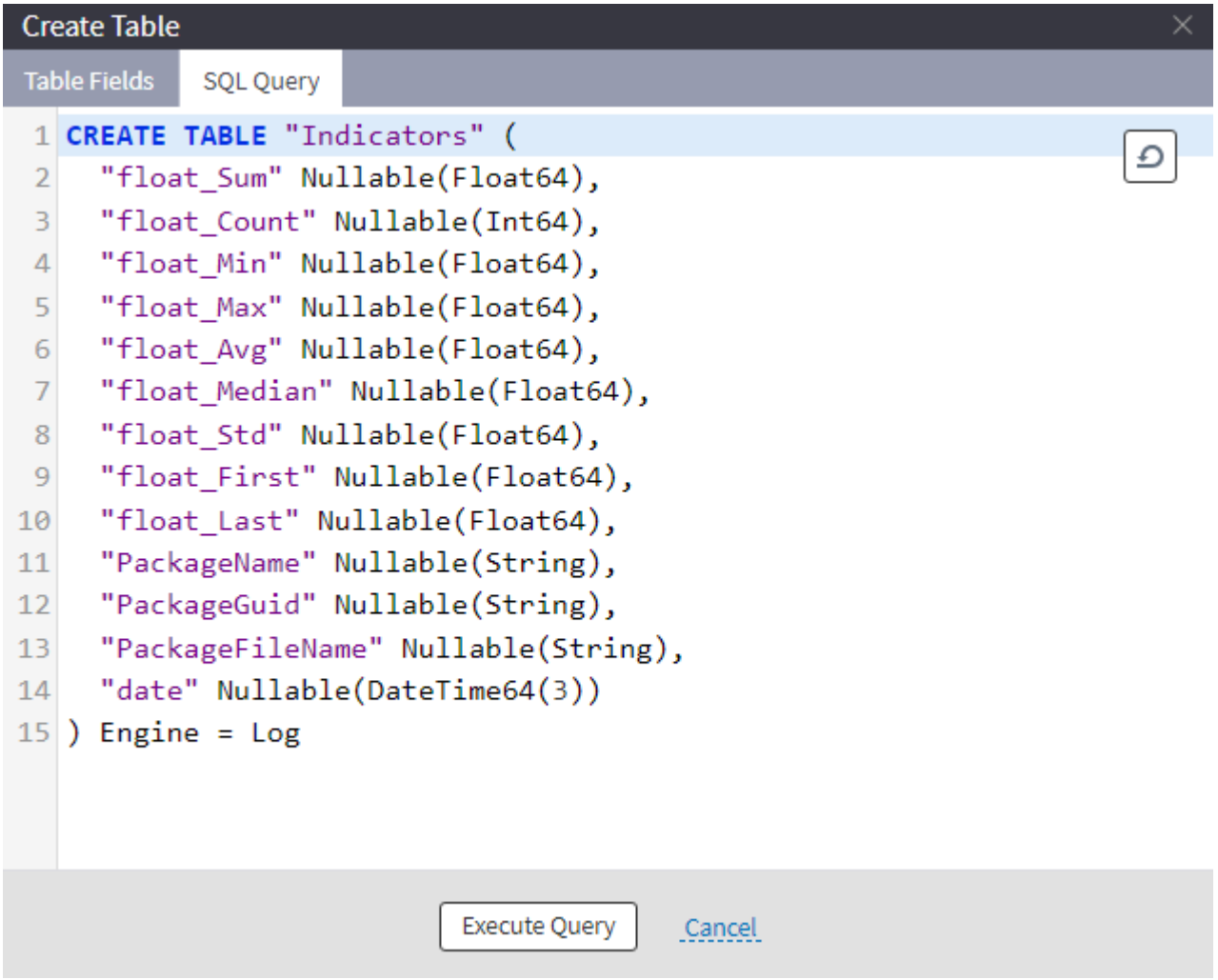
- **Move up**/**Move down**: Reorder fields in the list.
- **Add**: Insert a new field.
- **Edit**: Open a model to edit field parameters.
- **All String(max)**: Set all `string` fields to `String(max)`.
- **Refresh**: Sync the field list with the table connected to the node's input port.
- **Delete all**: Remove all fields from the table.

SQL query

Use this tab to view or edit the SQL query for creating the table. It offers two modes:

- **View mode** (default): Displays the SQL query without allowing edits. Syntax highlighting is disabled, and the **Execute query** button is inactive. The query updates automatically based on the **Table fields** tab settings.
- **Edit mode**: Allows manual editing of the SQL query. Syntax highlighting is enabled, and the **Execute query** button is active. The query content is independent of the **Table fields** tab.

To switch to **Edit mode**, click .



To return to **View mode**, click .

Read on: Text File Export Component