extract_data_from_vegvault.R

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Extract Data from VegVault

Description

Extracts data from the VegVault SQLite database based on specified geographic, temporal, and dataset type constraints.

Usage

```
extract_data_from_vegvault(
  path_to_vegvault = here::here("Data/Input/VegVault.sqlite"),
  x_lim = NULL,
  y_lim = NULL,
  age_lim = NULL,
  sel_dataset_type = NULL,
  sel_abiotic_var_name = NULL
)
```

Arguments

path_to_vegvault

A character string specifying the path to the VegVault SQLite database (default: "Data/Input/VegVault.sqlite").

x_lim   A numeric vector of length 2 specifying the longitude range.

y_lim   A numeric vector of length 2 specifying the latitude range.

age_lim   A numeric vector of length 2 specifying the age range.

sel_dataset_type

A character vector specifying the dataset types to select.

sel_abiotic_var_name

A character vector specifying the abiotic variable names to select.

Details

The function performs the following steps:

1. Validates input parameters. 2. Checks the presence of the VegVault SQLite database. 3. Accesses the database and filters data based on geographic, temporal, and dataset type constraints. 4. Retrieves abiotic data and taxa information. 5. Returns the extracted data as a data frame.

Value

A data frame containing the extracted data.

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