

NARA Non-Record Material Database (SQL)

Description:

This database holds the NARA Heritage lab's collection of non-record materials, which includes deaccessioned and naturally aged items, treatment materials, and other relevant samples.

Tables:

1. Product

a. Features:

- i. **Id (Integer):** auto-incremented generated value from database
 1. Automatically generated by DB
- ii. **Product_Name (String):** name of the product
 1. REQUIRED
- iii. **Company_Name (String):** the name of the manufacturer that made the product
- iv. **Product_Id_C (String):** id given to the product by the manufacturer
- v. **Hazardous (boolean):** whether or not the product is hazardous
- vi. **Approve (String):** whether or not the product is still in use
 1. Values: "yes", "no", "with", null
 - a. If the value is "with", explain it in the description column
- vii. **Date_Created (Date):** date when the product was created
 1. Format: year-month-date
 - a. Ex: 2020-09-18
- viii. **Date_Reviewed (Date):** date when the product was reviewed by NARA
 1. Format: year-month-date
 - a. Ex: 2020-09-18
- ix. **Purpose (String):** the purpose of the product
 1. Values: "Holding Maintenance", "Exhibitions", "Conservation Treatment", "Record Materials"
 2. Full documentation of this in Google Doc named "Suggested Purpose Categories"
- x. **Photo_URL (String):** the url of the product's photo
- xi. **Descriptions (String):** additional info about product
 1. Length: 1500 characters

- 2. Ex: explain size metric (ie. "1.5 means that we have one whole sheet and another half sheet since it was cut")
 - 3. Ex2: talk about specific product (ie. "one of the items is a defect")
- xii. **Quantity_Metric (String):** the metric to quantify the object
 - 1. Ex: lbs
- xiii. **Quantity_Numeric (Double):** the number of Quantity_Metric of the product
 - 1. Ex: 2
 - a. Meaning: 2 \rightarrow 2 lbs of the product
- xiv. **Position (String):** part of the room where the product is at
 - 1. Ex: Cabinet 2
- xv. **Room_Number (Integer):** room number where the product is at
 - 1. Ex: 1800

2. Material

a. Features:

- i. **Id (Integer):** auto-incremented generated value from database
 - 1. Automatically generated by DB
- ii. **Material_Name (String):** name of the material

3. Test

a. Features:

- i. **Id (Integer):** auto-incremented generated value from database
 - 1. Automatically generated by DB
- ii. **Test_Name (String):** name of the test
 - 1. REQUIRED
- iii. **Description (String):** description and additional info about the test
 - 1. Length: 1500 characters
- iv. **Result (String):** result of that test
 - 1. Values: "pass", "fail", "ongoing", "see description"
- v. **Test_Sheet (String):** the csv file of the test
 - 1. Ex: test1.csv
- vi. **Instrument_Id (Integer):** the database id of instrument being used in the test
 - 1. Connects the Instrument table to the Test table because of the many-to-one relationship

4. Instrument

a. Features:

- i. **Id (Integer):** auto-incremented generated value from database
 1. Automatically generated by DB
- ii. **Instrument_Name (String):** name of the instrument
 1. REQUIRED
 2. Ex: FTIR
- iii. **Description (String):** description and additional info about the instrument
 1. Length: 1500 characters

5. ProductMaterial

- a. Relationship table that connects the Product Table to the Material Table because of the many-to-many relationship

b. Features:

- i. **Product_Id (Integer):** database id of the product
- ii. **Material_Id (Integer):** database id of the material

6. ProductTest

- a. Relationship table that connects the Product Table to the Test Table because of the many-to-many relationship

b. Features:

- i. **Product_Id (Integer):** database id of the product
- ii. **Test_Id (Integer):** database id of the test

Table Relationships:

1. **Product to Material:** many-to-many relationship
2. **Product to Test:** many-to-many relationship
3. **Test to Instrument:** many-to-one relationship
 - a. Instrument can be used in MANY test
 - b. Test can use ONE instrument at most

MySQL Workbench:

1. Make sure to declare database:
2. `CREATE DATABASE naraDB;`
3. `USE naraDB;`

Common errors:

1. Create database table
 - a. CREATE DATABASE naraDB;
2. Unable to access database in MySQL:
 - a. USE naraDB;
3. Unable to update or remove from tables in MySQL Workbench:
 - a. SET SQL_SAFE_UPDATES = 0;
 - b. SET FOREIGN_KEY_CHECKS = 0;
 - i. SET FOREIGN_KEY_CHECKS = 1;
 1. Run this line after you remove table

Additional Info:

1. Maybe add "tested by" column to Test table

