-- Create the table to store processing requests

CREATE TABLE requests (

request\_id TEXT PRIMARY KEY, -- Unique identifier for each request

file\_name TEXT NOT NULL, -- Name of the CSV file associated with the request

status TEXT NOT NULL, -- Status of the request (e.g., "processing", "completed", "failed")

created\_at TIMESTAMP DEFAULT CURRENT\_TIMESTAMP, -- Timestamp when the request was created

updated\_at TIMESTAMP DEFAULT CURRENT\_TIMESTAMP -- Timestamp when the request status was last updated

);

-- Create the table to store processed image data

CREATE TABLE images (

id INTEGER PRIMARY KEY AUTOINCREMENT, -- Auto-incrementing unique identifier for each image record

request\_id TEXT NOT NULL, -- Foreign key to the requests table

serial\_number INTEGER NOT NULL, -- Serial number from the CSV

product\_name TEXT NOT NULL, -- Name of the product associated with the image

input\_image\_urls TEXT NOT NULL, -- Comma-separated list of input image URLs

output\_image\_urls TEXT, -- Comma-separated list of output image URLs (after processing)

status TEXT DEFAULT 'pending', -- Status of the image processing (e.g., "pending", "processed", "failed")

created\_at TIMESTAMP DEFAULT CURRENT\_TIMESTAMP, -- Timestamp when the image record was created

updated\_at TIMESTAMP DEFAULT CURRENT\_TIMESTAMP, -- Timestamp when the image record was last updated

FOREIGN KEY (request\_id) REFERENCES requests(request\_id) -- Foreign key constraint linking to requests table

);

-- Create an index on the request\_id in the images table for faster lookup

CREATE INDEX idx\_images\_request\_id ON images (request\_id);

-- Create a trigger to automatically update the 'updated\_at' timestamp on the requests table

CREATE TRIGGER update\_request\_timestamp

AFTER UPDATE ON requests

FOR EACH ROW

BEGIN

UPDATE requests SET updated\_at = CURRENT\_TIMESTAMP WHERE request\_id = NEW.request\_id;

END;

-- Create a trigger to automatically update the 'updated\_at' timestamp on the images table

CREATE TRIGGER update\_image\_timestamp

AFTER UPDATE ON images

FOR EACH ROW

BEGIN

UPDATE images SET updated\_at = CURRENT\_TIMESTAMP WHERE id = NEW.id;

END;