**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**ISO ONLINE ART TOOL - FINAL**

**Ava Nelson / IST659-M401**

**Background**

An online art forum is flourishing with creatives and new users on a daily basis. Unfortunately, limitations of the forum format (new threads pushing slower threads off the top pages, non-user friendly shop directories, etc) make it difficult to connect patrons with artists who suit their needs, as well as connecting artists to patrons when they have new shop listings. Many artists already maintain private “ping lists” to notify patrons who have expressed interest in their work before, but this practice does not assist those who are new in the forum and desire to build their audience. There is demand to create an online database tool which can keep records of artists, their shop listings, and potential patrons and help to facilitate greater sales in this marketplace.

**Description**

A database designed to facilitate an online tool that, for artists, can retrieve a list of usernames for patrons looking for any combination of keywords/filters.

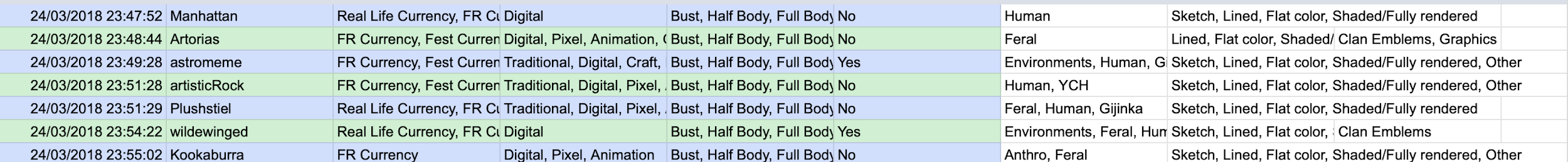
For patrons, this tool can return a list of shop cards or artist names that feature artwork with characteristics they are in the market for.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

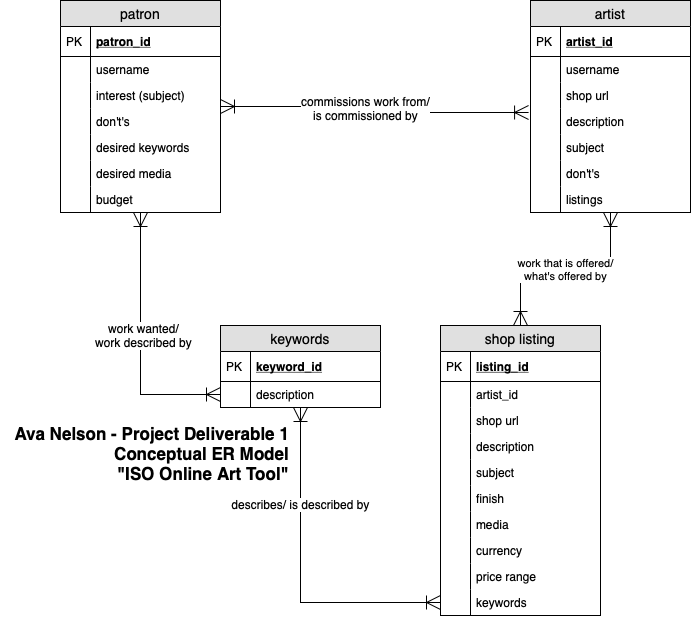
**CONCEPTUAL MODEL**

**Unrefined Representative Example of Data**

The data will be reworked/reorganized into a more cohesive database.



**Conceptual ERD**



**Conceptual Glossary**

**“Patron”**

*> patron\_id: id for patron based upon the forum site’s account id of this person.*

**Username:** written username of patron

**Interest (subject):** artwork subject matter desired (character, environment, graphics, etc)

**Don’t’s:** topics there is no interest in (NSFW/gore/mecha/etc)

**Desired Keywords**: further subject-related filters (colored, realistic, cartoon, animal, human, etc)

**Desired Media:** wanted art medium (traditional, digital, vector, drawing, etc)

**Budget:** Price range for spending ($0-$20, $20-$50, etc)

**“Artist”**

*>artist\_id: id for artist based upon the forum site’s account id of this person.*

**Username:** written username of patron

**Shop URL:** http:// url link to artist’s shop page

**Description:** Flavortext describing the nature of their artwork.

**Subject:** offered subject matter (character, environment, graphics, etc)

**Don’t’s:** topics artist does not do art for (NSFW/gore/mecha/etc)

**Listings:** list of the specific “art styles” the artist offers.

**“Shop Listing”**

*>listing\_id: surrogate id generated to house each artwork listing.*

**Artist\_id:** id for artist based upon the forum site’s account id (from “Artist”)

**Shop URL:** http:// url link to artist’s shop page (from “Artist”)

**Description:** Flavortext describing the nature of this listing

**Subject:** offered subject matter for this listing (character, environment, graphics, etc)

**Finish:** level of artwork completion offered for this listing (sketch, lineart, colored, etc)

**Media:** offered art medium for this listing (traditional, digital vector, drawing, etc)

**Currency:** type of currency accepted for this listing (RLC, premium site coin, basic coin)

**Price Range:** cost of this listing ($0-$20, $20-$50, etc)

**Keywords:** further subject-related filers to identify this listing (colored, realistic, cartoon, animal, human, graphics, typography, etc)

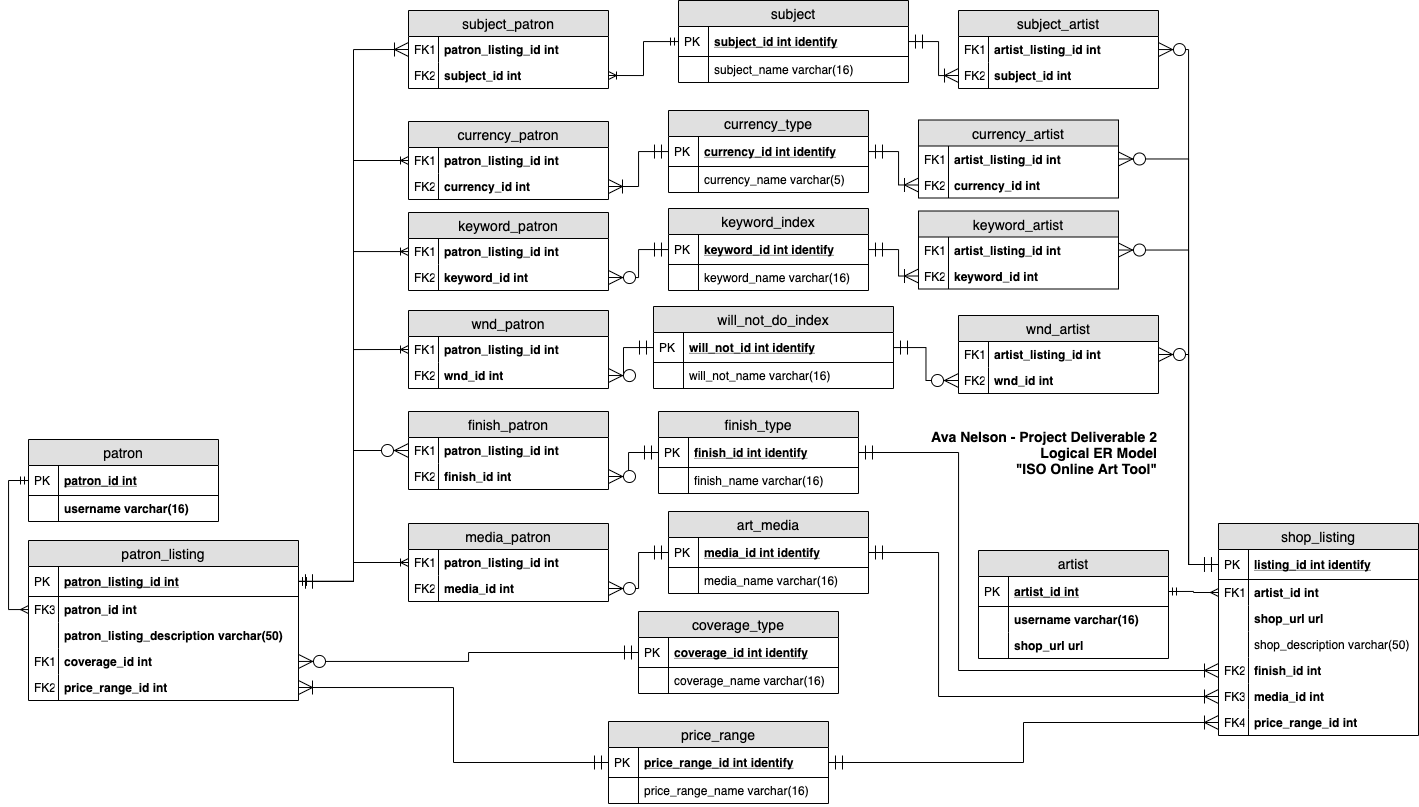
**“Keywords”**

*>keyword\_id: surrogate id generated to house each offered keyword.*

Description: name of keyword to accompany the id.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**LOGICAL MODEL**

****

**Logical Glossary (22 Tables in Total)**

**“patron”**

*> patron\_id: INT. id for patron based upon the forum site’s account id of this person.*

**Username:** VARCHAR(16) written username of patron. R

**“patron\_listing”**

*> patron\_listing\_id INT IDENTIFY: Surrogate ID*

**patron\_id:** INT. Links to patron. R

**patron\_listing\_description:** VARCHAR(50). Description of search.

**coverage\_id:** INT. Links to a weak associative tag table, coverage\_type. R

**price\_range\_id:** INT. Links to a weak associative tag table, price\_range. R

**“artist”**

*>artist\_id: INT. id for artist based upon the forum site’s account id of this person.*

**Username:** VARCHAR(16) written username of patron. R

**Shop\_url:** URL(or equivalent data type). Link to the forum shop. R

**“shop\_listing”**

*> listing\_id: INT IDENTIFY. Surrogate ID*

**artist\_id:** INT id for artist based on forum account’s id. I would like for this field to autofill from the “artist” PK. R

**Shop\_url:** URL(or equivalent data type). Link to the forum shop. I would also like for this field to autofill from the “artist” table. R

Shop\_description: VARCHAR(50) written description of this art listing.

**finish\_id:** INT. Links to a weak associative tag table, finish\_type. R

**media\_id:** INT. Links to a weak associative tag table, art\_media. R

**price\_range\_id:** INT. Links to a weak associative tag table, price\_range. R

**Weak Associative Tables**

**“subject”**

*>subject\_id: INT IDENTIFY. surrogate id generated to house each subject.*

**subject\_name**: VARCHAR(16) name of keyword to accompany the id.

**Subject Name Examples:**

-Gijinka

-Human

-Creature

-Anthro

-Environments

-YCH

-Adoptable

-Other

**“finish\_type”**

*>finish\_id: INT IDENTIFY. surrogate id generated to house each finish classification.*

**finish\_name**: VARCHAR(16) name of keyword to accompany the id.

**Finish Examples:**

-Sketch

-Lines

-Flat Color

-Shaded/Rendered

-Other

**“art\_media”**

*>media\_id: INT IDENTIFY. surrogate id generated to house each art media.*

**media\_name**: VARCHAR(16) name of art medium to accompany the id.

**Art Media Examples:**

-Traditional - Painting

-Traditional - Drawing

-Digital - Painting

-Digital - Drawing

-Digital - Vector

-Digital - Pixel

-3D/Craft

-Animation

-Graphics/Typography

-Other

**“currency\_type”**

*>currency\_id: INT IDENTIFY. surrogate id generated to house each currency type category.*

**currency\_name**: VARCHAR(5) name of currency type to accompany the id.

**Currency Type Examples:**

-RLC (real life currency)

-Basic IGC (In-Game Currency)

-Premium IGC (In-Game Currency)

-Festival IGC (In-Game-Currency)

-Other

**“price\_range”**

*>price\_range\_id: INT IDENTIFY. surrogate id generated to house each subject.*

**price\_range\_name**: VARCHAR(16) written price range to accompany the id.

**Price Range Examples:**

-$0-$20

-$20-$50

-$50-$100

-$100+

**“keyword\_index”**

*>keyword\_id: INT IDENTIFY. surrogate id generated to house each keyword.*

**keyword\_name**: VARCHAR(16) name of keyword to accompany the id.

**Keyword Name Examples:**

-Bust

-½ Body

-Full Body

-Reference Sheet

-Emblems

-Realism

-Stylized

-Abstract

-Other

**“will\_not\_do\_index”**

*>will\_not\_id: INT IDENTIFY. surrogate id generated to house each subject.*

**will\_not\_name**: VARCHAR(16) name of “Will Not Do” to accompany the id.

**Will Not Do Examples:**

-NSFW

-Gore

-Mechanical

-Excessive Detail

-Humans

-Creatures

**“subject\_patron”**

*>no primary key*

**patron\_listing\_id**: INT associated patron\_listing\_id. FK

**subject\_id**: INT associated subject\_id. FK

**“currency\_patron”**

*>no primary key*

**patron\_listing\_id**: INT associated patron\_listing\_id. FK

**currency\_id**: INT associated currency\_id. FK

**“keyword\_patron”**

*>no primary key*

**patron\_listing\_id**: INT associated patron\_listing\_id. FK

**keyword\_id**: INT associated keyword\_id. FK

**“wnd\_patron”**

*>no primary key*

**patron\_listing\_id**: INT associated patron\_listing\_id. FK

**wnd\_id**: INT associated will\_not\_id. FK

**“finish\_patron”**

*>no primary key*

**patron\_listing\_id**: INT associated patron\_listing\_id. FK

**finish\_id**: INT associated finish\_id. FK

**“media\_patron”**

*>no primary key*

**patron\_listing\_id**: INT associated patron\_listing\_id. FK

**media\_id**: INT associated media\_id. FK

**“subject\_artist”**

*>no primary key*

**listing\_id**: INT associated shop\_listing\_id. FK

**subject\_id**: INT associated subject\_id. FK

**“currency\_artist”**

*>no primary key*

**listing\_id**: INT associated listing\_id. FK

**currency\_id**: INT associated currency\_id. FK

**“keyword\_artist”**

*>no primary key*

**listing\_id**: INT associated listing\_id. FK

**keyword\_id**: INT associated keyword\_id. FK

**“wnd\_artist”**

*>no primary key*

**listing\_id**: INT associated listing\_id. FK

**wnd\_id**: INT associated will\_not\_id. FK

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**PART 2**

**PHYSICAL DATABASE DESIGN**

See logical model for visual of the database. See end of document for SQL Server code.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**DATA CREATION**

See end of document for SQL Server code.

****

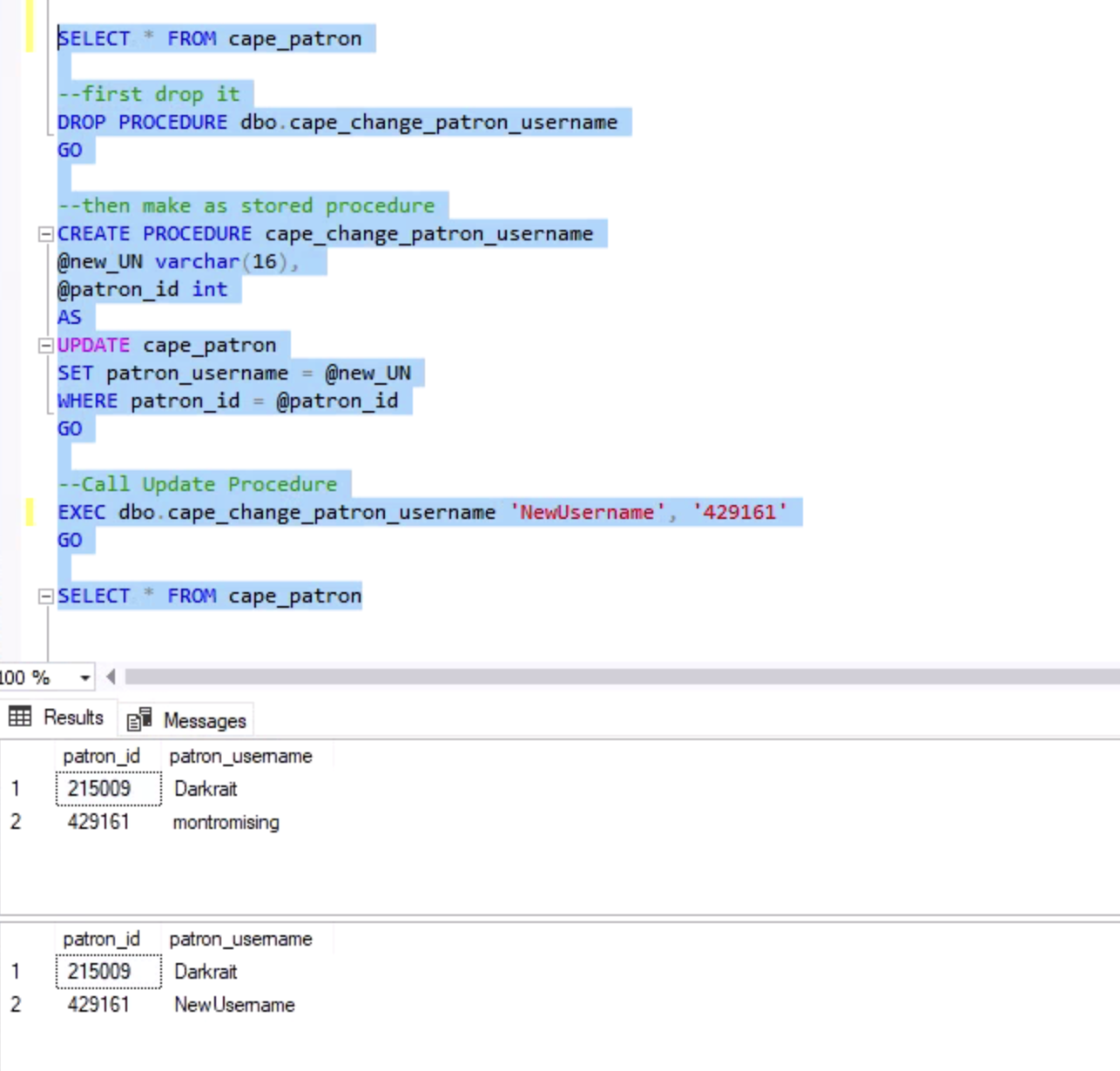
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**DATA MANIPULATION**

See end of document for SQL Server code.

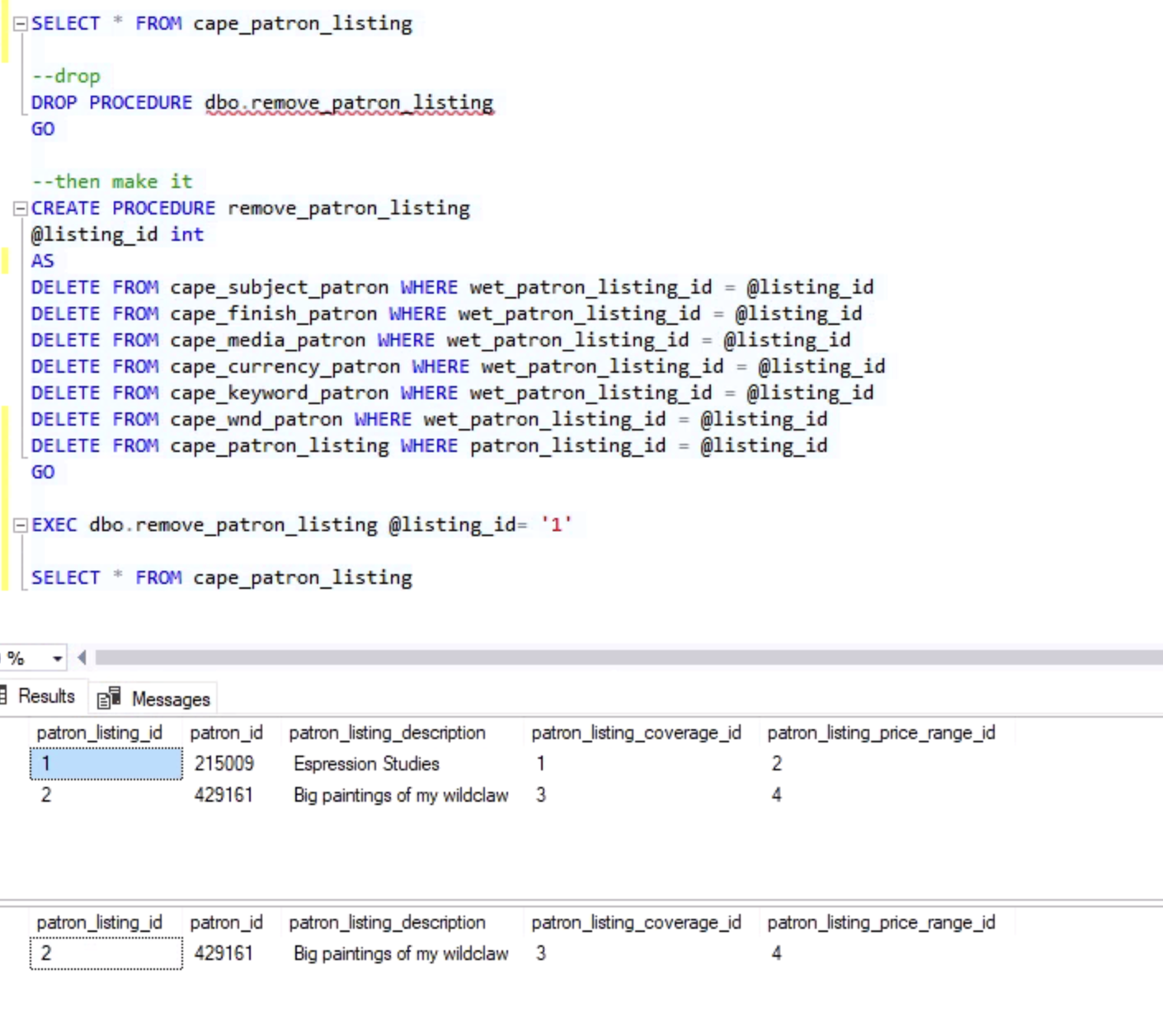
**Update Statement**

If a username needs to be updated in the database.



**Delete Statement**

If a user listing from the patron tables needs to be removed from the database.



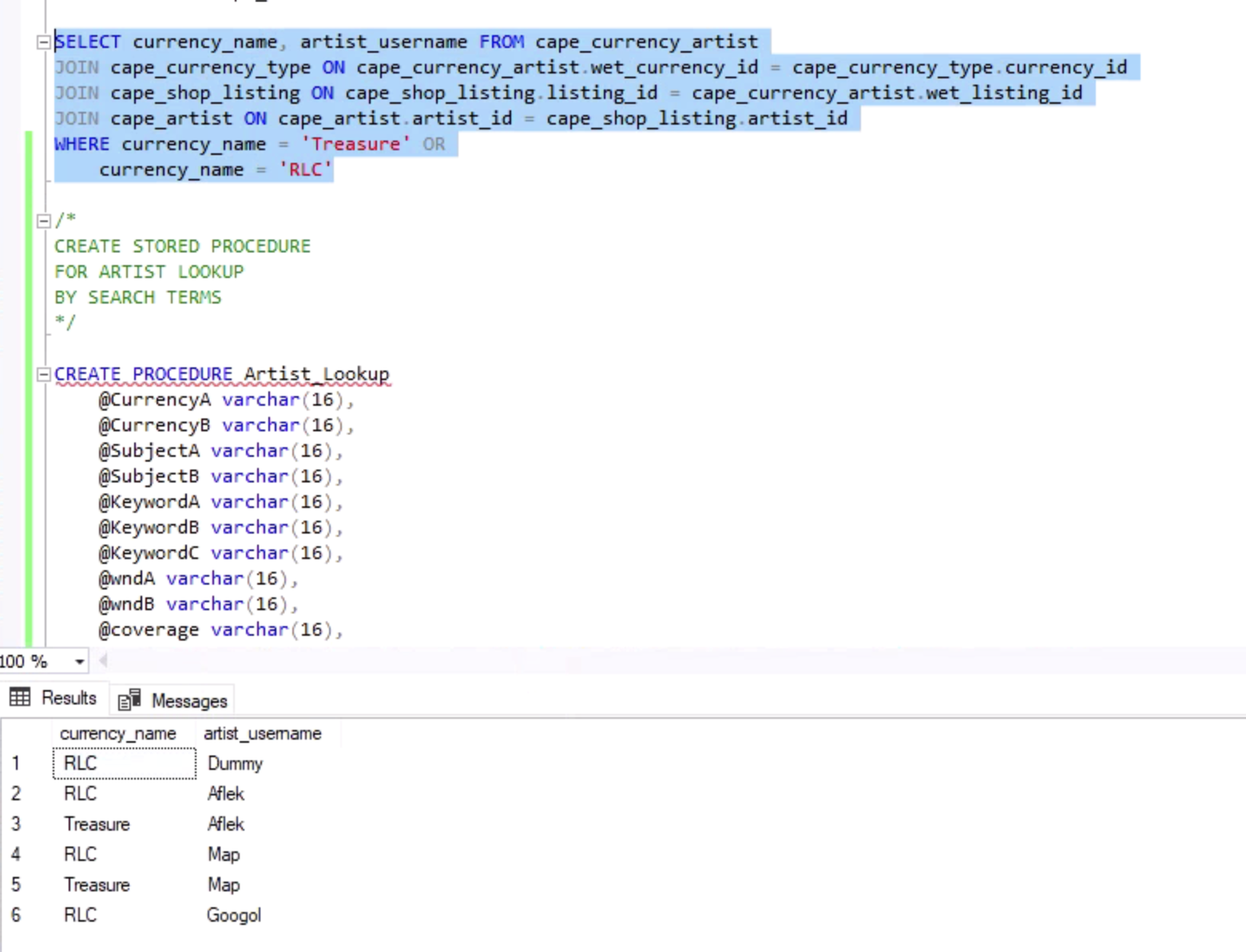
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**ANSWERING DATA QUESTIONS**

See end of document for SQL Server code.

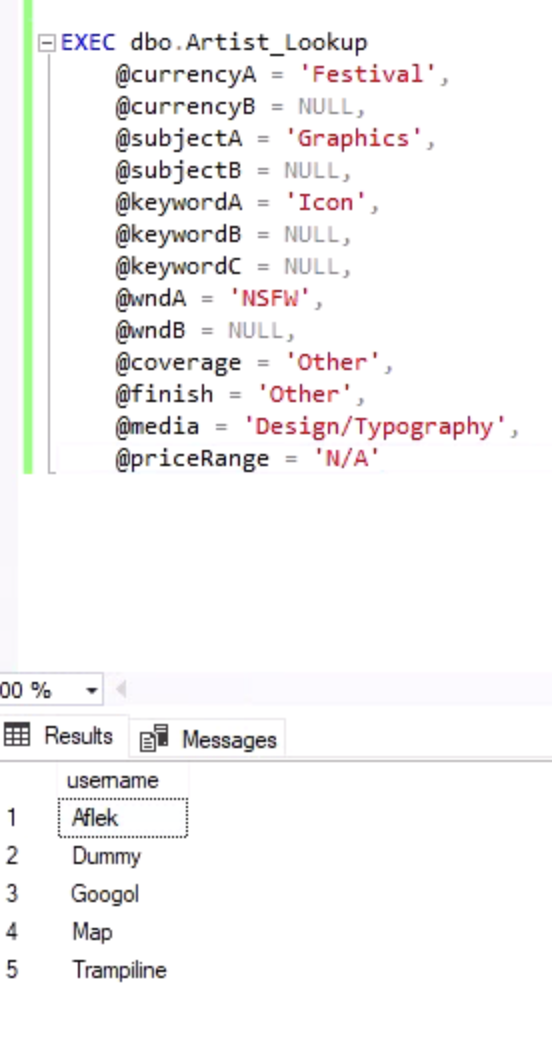
**Question: “I want to find the artists who accept Treasure and RLC as payment methods”**

Create a select statement searching for this criteria.



**Question: “I want to find an artist that satisfies a range of criteria across multiple tables.”**

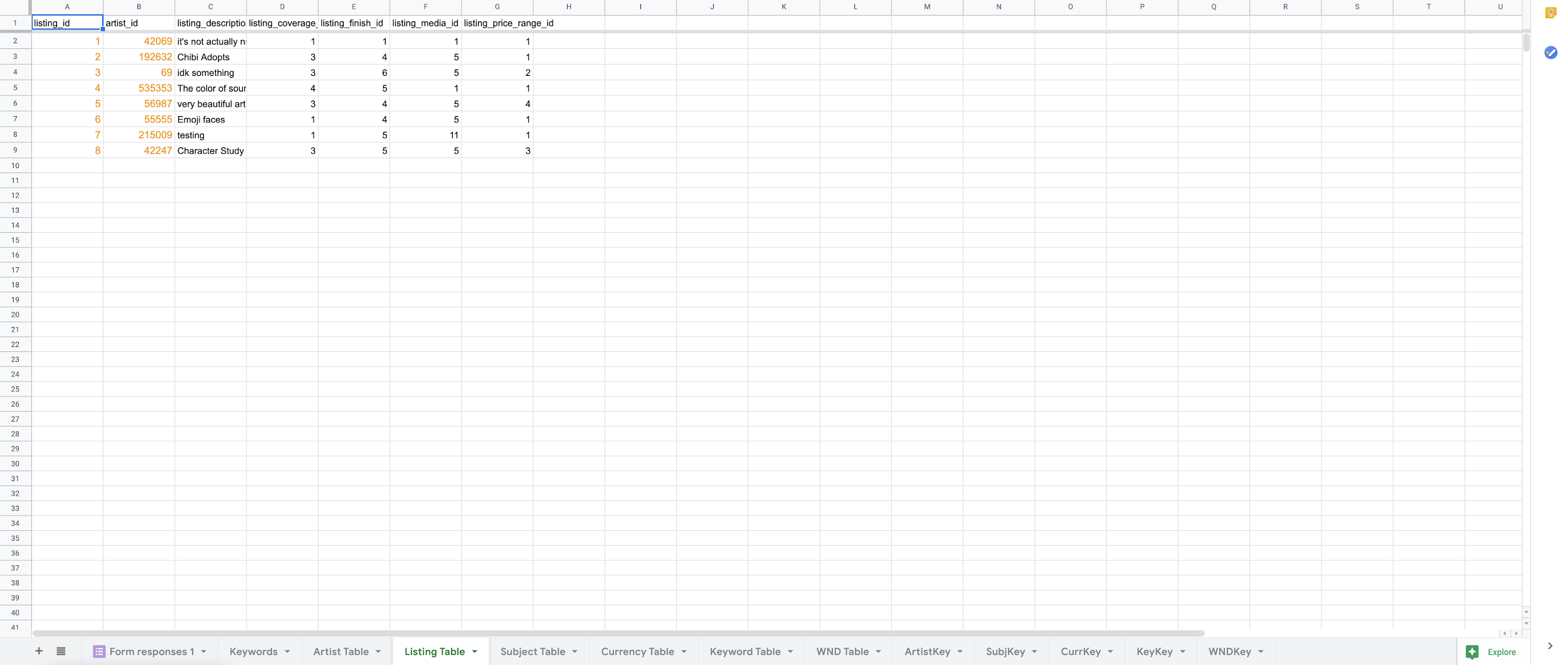
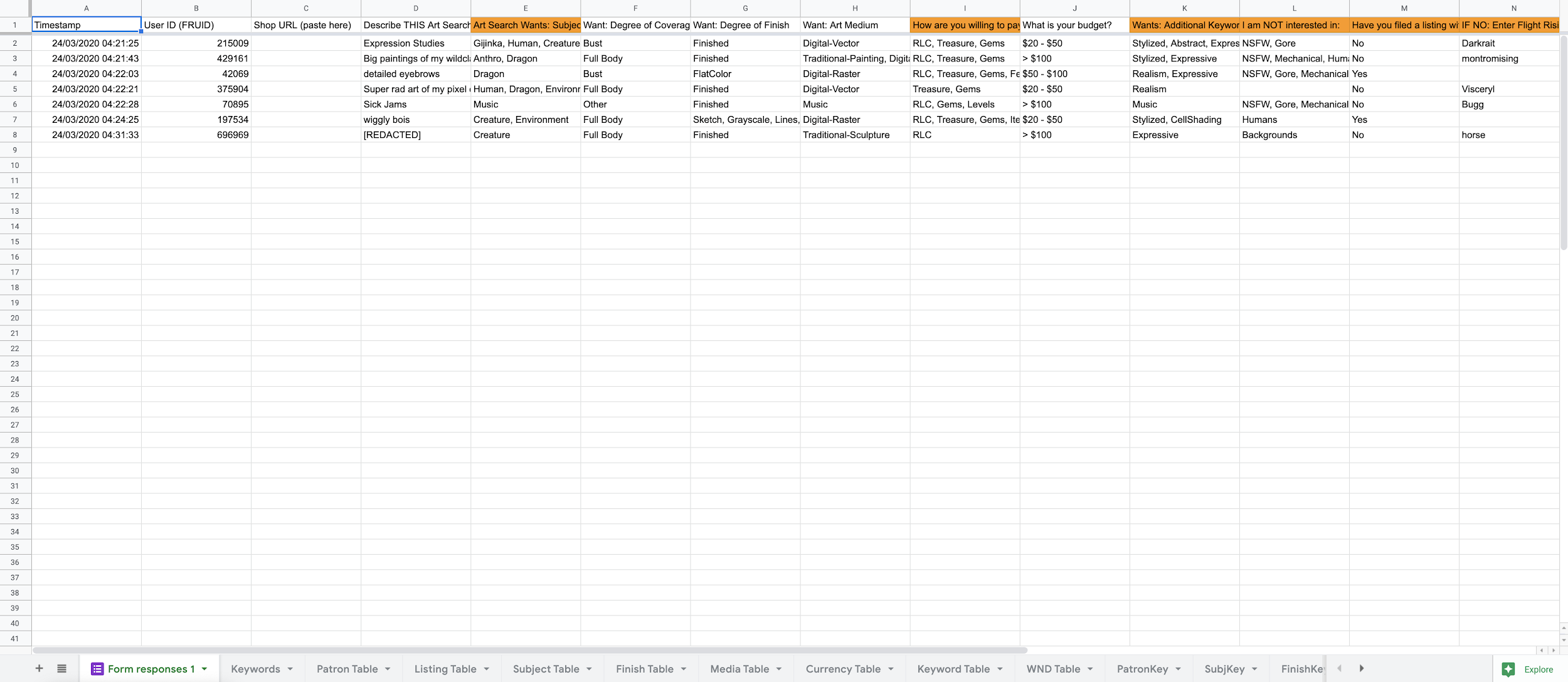
Create a stored procedure that can search across all artist-related tables in the database and return the usernames that satisfy selected parameters.

****

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**IMPLEMENTATION**

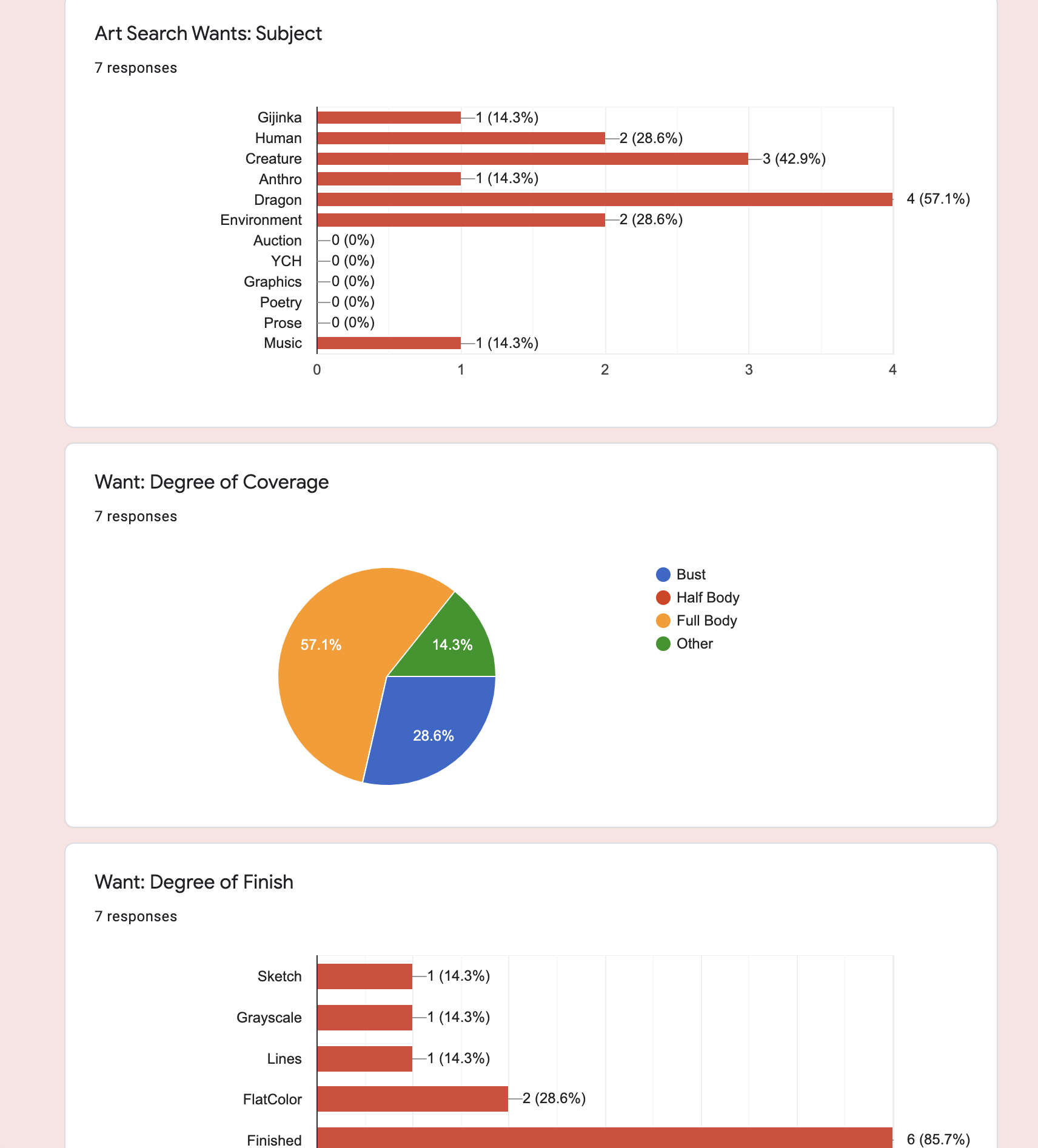
Google Sheets & Forms as a vehicle for data entry, along with future plans.



See above screenshots for the automated spreadsheets prepared to receive form entries and disperse user input into raw data. The raw data is organized into tables that mirror the database structure for ease of data import. If you would like to view the sheets yourself: [artist](https://docs.google.com/spreadsheets/d/1CPVSaBg5S-ynbVgATv6koI7aeUKLdKlsfPf-W0Ku32w/edit?usp=sharing) / [patron](https://docs.google.com/spreadsheets/d/1UOlDb2viTZuZw-AYnODeRfm_DV2yLxJ5rFOz3b750M8/edit?usp=sharing)

**Data Input**

Users will fill out provided forms to populate the database. The sheets as shown above will then translate the form responses into raw data that the database can use. Users will then be able to interact with the database on a web-hosted front end to run queries to return searches based on desired search terms.

****

**Future Plans**

I plan to convert the SQL Server Code to MySQL and connect the data entry sheets to the database to automate dbms data population. Then through use of java I will build a front end for users to run queries of the database and thus make this tool usable.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**REFLECTION**

I did not necessarily come into this project with any set expectations, as I have had very little database experience before this class. This project felt like an intimidating task that I really had no idea how to approach “smartly”, but over the course of the class I feel like I have been able to break it down into bite sized pieces and made it into something manageable. I look forward to the challenge of bringing this tool to the web and really bringing the database to life.

If I had to do this project again, I would look at a problem that is less modular in nature so as to make creation and implementation a simpler process. The chosen problem has many moving pieces associated with it, which in the end required quite a few more tables than I had wanted to entertain.

This has been a very insightful look into how computers process and organize information, which will prove useful as I move ahead with my career as an information professional.

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**SQL SERVER CODE**

**--Physical Database Design**

/\*

REMOVE

ALL

TABLES

\*/

DROP TABLE cape\_wnd\_artist

DROP TABLE cape\_wnd\_patron

DROP TABLE cape\_keyword\_artist

DROP TABLE cape\_keyword\_patron

DROP TABLE cape\_currency\_artist

DROP TABLE cape\_currency\_patron

DROP TABLE cape\_media\_patron

DROP TABLE cape\_finish\_patron

DROP TABLE cape\_subject\_artist

DROP TABLE cape\_subject\_patron

DROP TABLE cape\_patron\_listing

DROP TABLE cape\_shop\_listing

DROP TABLE cape\_artist

DROP TABLE cape\_patron

DROP TABLE cape\_wnd

DROP TABLE cape\_keyword\_index

DROP TABLE cape\_price\_range

DROP TABLE cape\_currency\_type

DROP TABLE cape\_art\_media

DROP TABLE cape\_finish\_type

DROP TABLE cape\_coverage

DROP TABLE cape\_subject

GO

/\*

CREATE

ALL

TABLES

\*/

--subject tag table

CREATE TABLE cape\_subject (

subject\_id int identity primary key,

subject\_name varchar(16) not null )

GO

--coverage tag table

CREATE TABLE cape\_coverage (

coverage\_id int identity primary key,

coverage\_name varchar(16) not null )

GO

--finish type tag table

CREATE TABLE cape\_finish\_type (

finish\_id int identity primary key,

finish\_name varchar(16) not null )

GO

--art media type table

CREATE TABLE cape\_art\_media (

media\_id int identity primary key,

media\_name varchar(25) not null )

GO

--currency type table

CREATE TABLE cape\_currency\_type (

currency\_id int identity primary key,

currency\_name varchar(16) not null )

GO

--price range table

CREATE TABLE cape\_price\_range (

price\_range\_id int identity primary key,

price\_range\_name varchar(16) not null )

GO

--keyword index table

CREATE TABLE cape\_keyword\_index (

keyword\_id int identity primary key,

keyword\_name varchar(16) not null )

GO

--will not do table

CREATE TABLE cape\_wnd (

wnd\_id int identity primary key,

wnd\_name varchar(16) not null)

GO

--patron table

CREATE TABLE cape\_patron (

patron\_id int primary key,

patron\_username varchar(16) not null )

GO

--artist table

CREATE TABLE cape\_artist (

artist\_id int primary key,

artist\_username varchar(16) not null,

shop\_url nvarchar(2083),

shop\_description varchar(50))

GO

--shop listing table

CREATE TABLE cape\_shop\_listing (

listing\_id int identity primary key,

artist\_id int not null,

shop\_url nvarchar(2083) not null,

listing\_description varchar(50),

--listing\_subject\_id int not null,

listing\_coverage\_id int not null,

listing\_finish\_id int not null,

listing\_media\_id int not null,

--listing\_currency\_id int not null,

listing\_price\_range\_id int not null,

--listing\_keyword\_id int not null,

--listing\_wnd\_id int

--shop listing table constraints

--CONSTRAINT FK1\_cape\_shop\_listing FOREIGN KEY (listing\_subject\_id)REFERENCES cape\_subject (subject\_id),

CONSTRAINT FK9\_cape\_shop\_listing FOREIGN KEY (listing\_coverage\_id)REFERENCES cape\_coverage (coverage\_id),

CONSTRAINT FK2\_cape\_shop\_listing FOREIGN KEY (listing\_finish\_id)REFERENCES cape\_finish\_type (finish\_id),

CONSTRAINT FK3\_cape\_shop\_listing FOREIGN KEY (listing\_media\_id)REFERENCES cape\_art\_media (media\_id),

--CONSTRAINT FK4\_cape\_shop\_listing FOREIGN KEY (listing\_currency\_id)REFERENCES cape\_currency\_type (currency\_id),

CONSTRAINT FK5\_cape\_shop\_listing FOREIGN KEY (listing\_price\_range\_id)REFERENCES cape\_price\_range (price\_range\_id),

--CONSTRAINT FK6\_cape\_shop\_listing FOREIGN KEY (listing\_keyword\_id)REFERENCES cape\_keyword\_index (keyword\_id),

--CONSTRAINT FK7\_cape\_shop\_listing FOREIGN KEY (listing\_wnd\_id)REFERENCES cape\_wnd (wnd\_id),

CONSTRAINT FK8\_cape\_shop\_listing FOREIGN KEY (artist\_id) REFERENCES cape\_artist(artist\_id))

GO

--patron listing table

CREATE TABLE cape\_patron\_listing (

patron\_listing\_id int identity primary key,

patron\_id int not null,

patron\_listing\_description varchar(50),

--listing\_subject\_id int not null,

patron\_listing\_coverage\_id int not null,

--listing\_finish\_id int not null,

--listing\_media\_id int not null,

--listing\_currency\_id int not null,

patron\_listing\_price\_range\_id int not null,

--listing\_keyword\_id int not null,

--listing\_wnd\_id int

--shop listing table constraints

--CONSTRAINT FK1\_cape\_shop\_listing FOREIGN KEY (listing\_subject\_id)REFERENCES cape\_subject (subject\_id),

CONSTRAINT FK9\_cape\_patron\_listing FOREIGN KEY (patron\_listing\_coverage\_id)REFERENCES cape\_coverage (coverage\_id),

--CONSTRAINT FK2\_cape\_shop\_listing FOREIGN KEY (listing\_finish\_id)REFERENCES cape\_finish\_type (finish\_id),

--CONSTRAINT FK3\_cape\_shop\_listing FOREIGN KEY (listing\_media\_id)REFERENCES cape\_art\_media (media\_id),

--CONSTRAINT FK4\_cape\_shop\_listing FOREIGN KEY (listing\_currency\_id)REFERENCES cape\_currency\_type (currency\_id),

CONSTRAINT FK5\_cape\_patron\_listing FOREIGN KEY (patron\_listing\_price\_range\_id)REFERENCES cape\_price\_range (price\_range\_id),

--CONSTRAINT FK6\_cape\_shop\_listing FOREIGN KEY (listing\_keyword\_id)REFERENCES cape\_keyword\_index (keyword\_id),

--CONSTRAINT FK7\_cape\_shop\_listing FOREIGN KEY (listing\_wnd\_id)REFERENCES cape\_wnd (wnd\_id),

CONSTRAINT FK8\_cape\_patron\_listing FOREIGN KEY (patron\_id) REFERENCES cape\_patron(patron\_id))

GO

/\*

WEAK ENTITY TABLES

\*/

--subject/patron table

CREATE TABLE cape\_subject\_patron (

wet\_patron\_listing\_id int not null,

wet\_subject\_id int not null

--WET subject/patron table constraints

CONSTRAINT FK1\_cape\_subject\_patron FOREIGN KEY (wet\_subject\_id)REFERENCES cape\_subject (subject\_id),

CONSTRAINT FK2\_cape\_subject\_patron FOREIGN KEY (wet\_patron\_listing\_id)REFERENCES cape\_patron\_listing (patron\_listing\_id))

GO

--subject/artist table

CREATE TABLE cape\_subject\_artist (

wet\_listing\_id int not null,

wet\_subject\_id int not null

--WET subject/artist table constraints

CONSTRAINT FK1\_cape\_subject\_artist FOREIGN KEY (wet\_subject\_id)REFERENCES cape\_subject (subject\_id),

CONSTRAINT FK2\_cape\_subject\_artist FOREIGN KEY (wet\_listing\_id)REFERENCES cape\_shop\_listing (listing\_id))

GO

--finish/patron table

CREATE TABLE cape\_finish\_patron (

wet\_patron\_listing\_id int not null,

wet\_finish\_id int not null

--WET subject/patron table constraints

CONSTRAINT FK1\_cape\_finish\_patron FOREIGN KEY (wet\_finish\_id)REFERENCES cape\_subject (subject\_id),

CONSTRAINT FK2\_cape\_finish\_patron FOREIGN KEY (wet\_patron\_listing\_id)REFERENCES cape\_patron\_listing (patron\_listing\_id))

GO

--subject/patron table

CREATE TABLE cape\_media\_patron (

wet\_patron\_listing\_id int not null,

wet\_media\_id int not null

--WET subject/patron table constraints

CONSTRAINT FK1\_cape\_media\_patron FOREIGN KEY (wet\_media\_id)REFERENCES cape\_subject (subject\_id),

CONSTRAINT FK2\_cape\_media\_patron FOREIGN KEY (wet\_patron\_listing\_id)REFERENCES cape\_patron\_listing (patron\_listing\_id))

GO

--currency/patron table

CREATE TABLE cape\_currency\_patron (

wet\_patron\_listing\_id int not null,

wet\_currency\_id int not null

--WET currency/patron table constraints

CONSTRAINT FK1\_cape\_currency\_patron FOREIGN KEY (wet\_currency\_id)REFERENCES cape\_currency\_type (currency\_id),

CONSTRAINT FK2\_cape\_currency\_patron FOREIGN KEY (wet\_patron\_listing\_id)REFERENCES cape\_patron\_listing (patron\_listing\_id))

GO

--currency/artist table

CREATE TABLE cape\_currency\_artist (

wet\_listing\_id int not null,

wet\_currency\_id int not null

--WET currency/artist table constraints

CONSTRAINT FK1\_cape\_currency\_artist FOREIGN KEY (wet\_currency\_id)REFERENCES cape\_currency\_type (currency\_id),

CONSTRAINT FK2\_cape\_currency\_artist FOREIGN KEY (wet\_listing\_id)REFERENCES cape\_shop\_listing (listing\_id))

GO

--keyword/patron table

CREATE TABLE cape\_keyword\_patron (

wet\_patron\_listing\_id int not null,

wet\_keyword\_id int not null

--WET keyword/patron table constraints

CONSTRAINT FK1\_cape\_keyword\_patron FOREIGN KEY (wet\_keyword\_id)REFERENCES cape\_keyword\_index (keyword\_id),

CONSTRAINT FK2\_cape\_keyword\_patron FOREIGN KEY (wet\_patron\_listing\_id)REFERENCES cape\_patron\_listing (patron\_listing\_id))

GO

--keyword/artist table

CREATE TABLE cape\_keyword\_artist (

wet\_listing\_id int not null,

wet\_keyword\_id int not null

--WET keyword/artist table constraints

CONSTRAINT FK1\_cape\_keyword\_artist FOREIGN KEY (wet\_keyword\_id)REFERENCES cape\_keyword\_index (keyword\_id),

CONSTRAINT FK2\_cape\_keyword\_artist FOREIGN KEY (wet\_listing\_id)REFERENCES cape\_shop\_listing (listing\_id))

GO

--Will Not Draw/patron table

CREATE TABLE cape\_wnd\_patron (

wet\_patron\_listing\_id int not null,

wet\_wnd\_id int not null

--WET wnd/patron table constraints

CONSTRAINT FK1\_cape\_wnd\_patron FOREIGN KEY (wet\_wnd\_id)REFERENCES cape\_wnd (wnd\_id),

CONSTRAINT FK2\_cape\_wnd\_patron FOREIGN KEY (wet\_patron\_listing\_id)REFERENCES cape\_patron\_listing (patron\_listing\_id))

GO

--Will Not Draw/artist table

CREATE TABLE cape\_wnd\_artist (

wet\_listing\_id int not null,

wet\_wnd\_id int not null

--WET wnd/artist table constraints

CONSTRAINT FK1\_cape\_wnd\_artist FOREIGN KEY (wet\_wnd\_id)REFERENCES cape\_wnd (wnd\_id),

CONSTRAINT FK2\_cape\_wnd\_artist FOREIGN KEY (wet\_listing\_id)REFERENCES cape\_shop\_listing (listing\_id))

GO

**--Data Creation - Insert Keywords**

/\*

INSERT KEYWORDS

INTO

SUPPORT TABLES

\*/

--drop stored procedure

DROP PROCEDURE dbo.cape\_insert\_keywords

GO

--create procedure to INSERT keywords to database

CREATE PROCEDURE cape\_insert\_keywords AS

DELETE FROM cape\_subject

INSERT INTO cape\_subject

VALUES ('Gijinka'), ('Human'), ('Creature'), ('Anthro'), ('Dragon'), ('Environment'),

('Auction'), ('YCH'), ('Adoptable'), ('Graphics'), ('Poetry'), ('Prose'), ('Music')

DELETE FROM cape\_coverage

INSERT INTO cape\_coverage

VALUES ('Bust'), ('Half Body'), ('Full Body'), ('Other')

DELETE FROM cape\_finish\_type

INSERT INTO cape\_finish\_type

VALUES ('Sketch'), ('Grayscale'), ('Lines'), ('Flat Color'), ('Finished'), ('Other')

DELETE FROM cape\_art\_media

INSERT INTO cape\_art\_media

VALUES ('Traditional-Painting'), ('Traditional-Drawing'), ('Traditional-Sculpture'), ('Traditional-Craft'),

('Digital-Painting'), ('Digital-Drawing'), ('Digital-Vector'), ('Digital-Pixel'), ('Digital-3D'), ('Animation'),

('Design/Typography'), ('Writing'), ('Music')

DELETE FROM cape\_currency\_type

INSERT INTO cape\_currency\_type

VALUES ('RLC'), ('Treasure'), ('Gems'), ('Festival'), ('Levels'), ('Items')

DELETE FROM cape\_price\_range

INSERT INTO cape\_price\_range

VALUES ('<$20'), ('$20-$50'), ('$50-$100'), ('>$100'), ('N/A')

DELETE FROM cape\_keyword\_index

INSERT INTO cape\_keyword\_index

VALUES ('Stylized'), ('Realism'), ('Abstract'), ('Emblem'), ('Icon'),

('Lore'), ('Music'), ('Expressive'), ('Breeding Card'), ('Comic'), ('Reference Sheet')

DELETE FROM cape\_wnd

INSERT INTO cape\_wnd

VALUES ('NSFW'), ('Gore'), ('Mechanical'), ('Excessive Detail'), ('Humans'), ('Creature'), ('Backgrounds')

GO

--then execute procedure

EXEC dbo.cape\_insert\_keywords

**--Data Creation - Insert Listings**

/\*

FIRST MAKE SURE

ALL TABLES

ARE EMPTY

\*/

--Artist Tables

DELETE FROM cape\_wnd\_artist

DELETE FROM cape\_keyword\_artist

DELETE FROM cape\_currency\_artist

DELETE FROM cape\_subject\_artist

DELETE FROM cape\_shop\_listing

DELETE FROM cape\_artist

--Patron Tables

DELETE FROM cape\_wnd\_patron

DELETE FROM cape\_keyword\_patron

DELETE FROM cape\_currency\_patron

DELETE FROM cape\_media\_patron

DELETE FROM cape\_finish\_patron

DELETE FROM cape\_subject\_patron

DELETE FROM cape\_patron\_listing

DELETE FROM cape\_patron

--Reseed Listing Tables

DBCC CHECKIDENT (cape\_shop\_listing, RESEED, 0)

DBCC CHECKIDENT (cape\_patron\_listing, RESEED, 0)

/\*

ARTIST ENTRY

ONE\*/

INSERT INTO cape\_artist (artist\_id, artist\_username, shop\_url, shop\_description)

VALUES ('42069', 'Dummy', 'https://matias.ma/nsfw/', 'This is my shop')

INSERT INTO cape\_shop\_listing

(artist\_id, shop\_url, listing\_description, listing\_coverage\_id,

listing\_finish\_id, listing\_media\_id, listing\_price\_range\_id)

VALUES ('42069', 'https://matias.ma/nsfw/', 'its not actually nsfw.', '1', '1', '1', '1')

GO

--insert weak associative values

INSERT INTO cape\_subject\_artist (wet\_listing\_id, wet\_subject\_id)

VALUES ('1', '1')

INSERT INTO cape\_currency\_artist (wet\_listing\_id, wet\_currency\_id)

VALUES ('1', '1')

INSERT INTO cape\_keyword\_artist (wet\_listing\_id, wet\_keyword\_id)

VALUES ('1', '1')

INSERT INTO cape\_wnd\_artist (wet\_listing\_id, wet\_wnd\_id)

VALUES ('1', '1')

GO

/\*

ARTIST ENTRY

TWO\*/

INSERT INTO cape\_artist (artist\_id, artist\_username, shop\_url, shop\_description)

VALUES ('192632', 'Aflek', 'https://www1.flightrising.com/forums/adopt/2055721/1/', 'Insect Designs')

INSERT INTO cape\_shop\_listing

(artist\_id, shop\_url, listing\_description, listing\_coverage\_id,

listing\_finish\_id, listing\_media\_id, listing\_price\_range\_id)

VALUES ('192632', 'https://www1.flightrising.com/forums/adopt/2055721/1', 'Chibi Adopts', '3', '4', '5', '1')

GO

--insert weak associative values

INSERT INTO cape\_subject\_artist (wet\_listing\_id, wet\_subject\_id)

VALUES ('2', '9')

INSERT INTO cape\_currency\_artist (wet\_listing\_id, wet\_currency\_id)

VALUES ('2', '1'), ('2', '2'), ('2', '3'), ('2', '6')

INSERT INTO cape\_keyword\_artist (wet\_listing\_id, wet\_keyword\_id)

VALUES ('2', '1')

INSERT INTO cape\_wnd\_artist (wet\_listing\_id, wet\_wnd\_id)

VALUES ('2', '1'), ('2', '2'), ('2','3'), ('2','4'),('2','5'), ('2','6'), ('2','7')

GO

/\*

ARTIST ENTRY

THREE\*/

INSERT INTO cape\_artist (artist\_id, artist\_username, shop\_url, shop\_description)

VALUES ('69', 'Map', 'https://www.etsy.com/', 'Mapalicious Maps')

INSERT INTO cape\_shop\_listing

(artist\_id, shop\_url, listing\_description, listing\_coverage\_id,

listing\_finish\_id, listing\_media\_id, listing\_price\_range\_id)

VALUES ('69', 'https://www.etsy.com/', NULL, '3', '6', '6', '2')

GO

--insert weak associative values

INSERT INTO cape\_subject\_artist (wet\_listing\_id, wet\_subject\_id)

VALUES ('3', '3'), ('3', '5')

INSERT INTO cape\_currency\_artist (wet\_listing\_id, wet\_currency\_id)

VALUES ('3', '1'), ('3', '2'), ('3', '3')

INSERT INTO cape\_keyword\_artist (wet\_listing\_id, wet\_keyword\_id)

VALUES ('3', '1'), ('3', '2')

INSERT INTO cape\_wnd\_artist (wet\_listing\_id, wet\_wnd\_id)

VALUES ('3', '1'), ('3', '2'), ('3','3'), ('3','7')

GO

/\*

ARTIST ENTRY

FOUR\*/

INSERT INTO cape\_artist (artist\_id, artist\_username, shop\_url, shop\_description)

VALUES ('535353', 'Trampiline', 'https://www.tumblr.com/dashboard', ':)')

INSERT INTO cape\_shop\_listing

(artist\_id, shop\_url, listing\_description, listing\_coverage\_id,

listing\_finish\_id, listing\_media\_id, listing\_price\_range\_id)

VALUES ('535353', 'https://www.tumblr.com/dashboard', 'The color of sound', '4', '5', '1', '1')

GO

--insert weak associative values

INSERT INTO cape\_subject\_artist (wet\_listing\_id, wet\_subject\_id)

VALUES ('4', '10')

INSERT INTO cape\_currency\_artist (wet\_listing\_id, wet\_currency\_id)

VALUES ('4', '3')

INSERT INTO cape\_keyword\_artist (wet\_listing\_id, wet\_keyword\_id)

VALUES ('4', '3'), ('4', '4'), ('4', '8')

INSERT INTO cape\_wnd\_artist (wet\_listing\_id, wet\_wnd\_id)

VALUES ('4', '2'), ('4', '3'), ('4','7')

GO

/\*

ARTIST ENTRY

FIVE\*/

INSERT INTO cape\_artist (artist\_id, artist\_username, shop\_url, shop\_description)

VALUES ('56987', 'Googol', 'http://www.google.com/', 'I rule the internet and like it')

INSERT INTO cape\_shop\_listing

(artist\_id, shop\_url, listing\_description, listing\_coverage\_id,

listing\_finish\_id, listing\_media\_id, listing\_price\_range\_id)

VALUES ('56987', 'http://www.google.com/', 'very beautiful art. the most beautiful.',

'3', '4', '5', '4')

GO

--insert weak associative values

INSERT INTO cape\_subject\_artist (wet\_listing\_id, wet\_subject\_id)

VALUES ('5', '2'), ('5', '5')

INSERT INTO cape\_currency\_artist (wet\_listing\_id, wet\_currency\_id)

VALUES ('5', '1'), ('5', '4'), ('5', '6')

INSERT INTO cape\_keyword\_artist (wet\_listing\_id, wet\_keyword\_id)

VALUES ('5', '1'), ('5', '3'), ('5', '11')

INSERT INTO cape\_wnd\_artist (wet\_listing\_id, wet\_wnd\_id)

VALUES ('5', '2'), ('5', '4')

GO

SELECT \* FROM cape\_shop\_listing

/\*

PATRON ENTRY

ONE\*/

INSERT INTO cape\_patron (patron\_id, patron\_username)

VALUES ('215009', 'Darkrait')

INSERT INTO cape\_patron\_listing

(patron\_id, patron\_listing\_description, patron\_listing\_coverage\_id,

patron\_listing\_price\_range\_id)

VALUES ('215009', 'Espression Studies',

'1', '2')

GO

--insert weak associative values

INSERT INTO cape\_subject\_patron (wet\_patron\_listing\_id, wet\_subject\_id)

VALUES ('1', '1'), ('1', '2'), ('1', '3'), ('1','5')

INSERT INTO cape\_finish\_patron (wet\_patron\_listing\_id, wet\_finish\_id)

VALUES ('1', '1')

INSERT INTO cape\_media\_patron (wet\_patron\_listing\_id, wet\_media\_id)

VALUES ('1','1')

INSERT INTO cape\_currency\_patron (wet\_patron\_listing\_id, wet\_currency\_id)

VALUES ('1', '1'), ('1', '2'), ('1', '3')

INSERT INTO cape\_keyword\_patron (wet\_patron\_listing\_id, wet\_keyword\_id)

VALUES ('1', '1'), ('1', '3'), ('1', '8')

INSERT INTO cape\_wnd\_patron (wet\_patron\_listing\_id, wet\_wnd\_id)

VALUES ('1', '1'), ('1', '2')

GO

/\*

PATRON ENTRY

TWO\*/

INSERT INTO cape\_patron (patron\_id, patron\_username)

VALUES ('429161', 'montromising')

INSERT INTO cape\_patron\_listing

(patron\_id, patron\_listing\_description, patron\_listing\_coverage\_id,

patron\_listing\_price\_range\_id)

VALUES ('429161', 'Big paintings of my wildclaw',

'3', '4')

GO

--insert weak associative values

INSERT INTO cape\_subject\_patron (wet\_patron\_listing\_id, wet\_subject\_id)

VALUES ('2', '4'), ('2', '5')

INSERT INTO cape\_finish\_patron (wet\_patron\_listing\_id, wet\_finish\_id)

VALUES ('2', '2')

INSERT INTO cape\_media\_patron (wet\_patron\_listing\_id, wet\_media\_id)

VALUES ('2','2')

INSERT INTO cape\_currency\_patron (wet\_patron\_listing\_id, wet\_currency\_id)

VALUES ('2', '1'), ('2', '2'), ('2', '3')

INSERT INTO cape\_keyword\_patron (wet\_patron\_listing\_id, wet\_keyword\_id)

VALUES ('2', '1'), ('2', '8')

INSERT INTO cape\_wnd\_patron (wet\_patron\_listing\_id, wet\_wnd\_id)

VALUES ('2', '1'), ('2', '3'), ('2','5')

GO

SELECT \* FROM cape\_patron\_listing

SELECT \* FROM cape\_shop\_listing

/\*

IF A

PATRON USERNAME

NEEDS UPDATING

\*/

SELECT \* FROM cape\_patron

--first drop it

DROP PROCEDURE dbo.cape\_change\_patron\_username

GO

--then make as stored procedure

CREATE PROCEDURE cape\_change\_patron\_username

@new\_UN varchar(16),

@patron\_id int

AS

UPDATE cape\_patron

SET patron\_username = @new\_UN

WHERE patron\_id = @patron\_id

GO

--Call Update Procedure

EXEC dbo.cape\_change\_patron\_username 'NewUsername', '429161'

GO

SELECT \* FROM cape\_patron

/\*

IF AN

ARTIST USERNAME

NEEDS UPDATING

\*/

--first drop it

DROP PROCEDURE dbo.cape\_change\_artist\_username

GO

--then make as stored procedure

CREATE PROCEDURE cape\_change\_artist\_username

@new\_UN varchar(16),

@artist\_id int

AS

UPDATE cape\_artist

SET artist\_username = @new\_UN

WHERE artist\_id = @artist\_id

GO

/\*

IF A

SHOP LISTING

NEEDS DELETING

\*/

--drop

DROP PROCEDURE dbo.remove\_shop\_listing

GO

--then make it

CREATE PROCEDURE remove\_shop\_listing

@listing\_id int

AS

DELETE FROM cape\_shop\_listing WHERE listing\_id = @listing\_id

DELETE FROM cape\_subject\_artist WHERE wet\_listing\_id = @listing\_id

DELETE FROM cape\_currency\_artist WHERE wet\_listing\_id = @listing\_id

DELETE FROM cape\_keyword\_artist WHERE wet\_listing\_id = @listing\_id

DELETE FROM cape\_wnd\_artist WHERE wet\_listing\_id = @listing\_id

GO

/\*

IF A

PATRON LISTING

NEEDS DELETING

\*/

SELECT \* FROM cape\_patron\_listing

--drop

DROP PROCEDURE dbo.remove\_patron\_listing

GO

--then make it

CREATE PROCEDURE remove\_patron\_listing

@listing\_id int

AS

DELETE FROM cape\_subject\_patron WHERE wet\_patron\_listing\_id = @listing\_id

DELETE FROM cape\_finish\_patron WHERE wet\_patron\_listing\_id = @listing\_id

DELETE FROM cape\_media\_patron WHERE wet\_patron\_listing\_id = @listing\_id

DELETE FROM cape\_currency\_patron WHERE wet\_patron\_listing\_id = @listing\_id

DELETE FROM cape\_keyword\_patron WHERE wet\_patron\_listing\_id = @listing\_id

DELETE FROM cape\_wnd\_patron WHERE wet\_patron\_listing\_id = @listing\_id

DELETE FROM cape\_patron\_listing WHERE patron\_listing\_id = @listing\_id

GO

EXEC dbo.remove\_patron\_listing @listing\_id= '1'

SELECT \* FROM cape\_patron\_listing

**--Answering Data Questions**

SELECT currency\_name, artist\_username FROM cape\_currency\_artist

JOIN cape\_currency\_type ON cape\_currency\_artist.wet\_currency\_id = cape\_currency\_type.currency\_id

JOIN cape\_shop\_listing ON cape\_shop\_listing.listing\_id = cape\_currency\_artist.wet\_listing\_id

JOIN cape\_artist ON cape\_artist.artist\_id = cape\_shop\_listing.artist\_id

WHERE currency\_name = 'Treasure' OR

currency\_name = 'RLC'

/\*

CREATE STORED PROCEDURE

FOR ARTIST LOOKUP

BY SEARCH TERMS

\*/

CREATE PROCEDURE Artist\_Lookup

@CurrencyA varchar(16),

@CurrencyB varchar(16),

@SubjectA varchar(16),

@SubjectB varchar(16),

@KeywordA varchar(16),

@KeywordB varchar(16),

@KeywordC varchar(16),

@wndA varchar(16),

@wndB varchar(16),

@coverage varchar(16),

@finish varchar(16),

@media varchar(16),

@priceRange varchar(16)

AS

--Make a Multiple Select statement

--Select from Weak Associative Tables

SELECT artist\_username AS username FROM cape\_currency\_artist

JOIN cape\_currency\_type ON cape\_currency\_artist.wet\_currency\_id = cape\_currency\_type.currency\_id

JOIN cape\_shop\_listing ON cape\_shop\_listing.listing\_id = cape\_currency\_artist.wet\_listing\_id

JOIN cape\_artist ON cape\_artist.artist\_id = cape\_shop\_listing.artist\_id

WHERE currency\_name = @currencyA OR

currency\_name = @currencyB

UNION

SELECT artist\_username AS username FROM cape\_subject\_artist

JOIN cape\_subject ON cape\_subject\_artist.wet\_subject\_id = cape\_subject.subject\_id

JOIN cape\_shop\_listing ON cape\_shop\_listing.listing\_id = cape\_subject\_artist.wet\_listing\_id

JOIN cape\_artist ON cape\_artist.artist\_id = cape\_shop\_listing.artist\_id

WHERE subject\_name = @subjectA OR

subject\_name = @subjectB

UNION

SELECT artist\_username AS username FROM cape\_keyword\_artist

JOIN cape\_keyword\_index ON cape\_keyword\_artist.wet\_keyword\_id = cape\_keyword\_index.keyword\_id

JOIN cape\_shop\_listing ON cape\_shop\_listing.listing\_id = cape\_keyword\_artist.wet\_listing\_id

JOIN cape\_artist ON cape\_artist.artist\_id = cape\_shop\_listing.artist\_id

WHERE keyword\_name = @keywordA OR

keyword\_name = @keywordB OR

keyword\_name = @keywordC

UNION

SELECT artist\_username AS username FROM cape\_wnd\_artist

JOIN cape\_wnd ON cape\_wnd\_artist.wet\_wnd\_id = cape\_wnd.wnd\_id

JOIN cape\_shop\_listing ON cape\_shop\_listing.listing\_id = cape\_wnd\_artist.wet\_listing\_id

JOIN cape\_artist ON cape\_artist.artist\_id = cape\_shop\_listing.artist\_id

WHERE wnd\_name = @wndA OR

wnd\_name = @wndB

UNION

--Define selections for direct Listing Table

SELECT artist\_username AS username FROM cape\_shop\_listing

JOIN cape\_coverage ON cape\_shop\_listing.listing\_coverage\_id = cape\_coverage.coverage\_id

JOIN cape\_finish\_type ON cape\_shop\_listing.listing\_finish\_id = cape\_finish\_type.finish\_id

JOIN cape\_art\_media ON cape\_shop\_listing.listing\_media\_id = cape\_art\_media.media\_id

JOIN cape\_price\_range ON cape\_shop\_listing.listing\_price\_range\_id = cape\_price\_range.price\_range\_id

JOIN cape\_artist ON cape\_artist.artist\_id = cape\_shop\_listing.artist\_id

WHERE coverage\_name = @coverage OR

finish\_name = @finish OR

media\_name = @media OR

price\_range\_name = @priceRange

GO

EXEC dbo.Artist\_Lookup

@currencyA = 'Festival',

@currencyB = NULL,

@subjectA = 'Graphics',

@subjectB = NULL,

@keywordA = 'Icon',

@keywordB = NULL,

@keywordC = NULL,

@wndA = 'NSFW',

@wndB = NULL,

@coverage = 'Other',

@finish = 'Other',

@media = 'Design/Typography',

@priceRange = 'N/A'