**BIS 235 Term Project Part 3 SQL Implementation**

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# Requirement 1 (Input): SQL Table Implementation Query

The following queries were used to create all 7 tables in our database. Any primary keys and or unique keys were implemented within phpMyAdmin for final implementation and Q&A purposes.

## Staff Table

**CREATE TABLE Staff (**

**Staff\_ID INT(10) NOT NULL AUTOINCREMENT Primary Key,**

**Staff\_SSN CHAR(10) NOT NULL,**

**First\_Name CHAR(35) NOT NULL,**

**Last\_Name CHAR(35) NOT NULL**

**);**

## Collector Table

**CREATE TABLE Collector (**

**Collector\_ID INT(10) NOT NULL AUTOINCREMENT Primary Key,**

**Collector\_SSN CHAR(10) NOT NULL UNIQUE,**

**First\_Name CHAR(35) NOT NULL,**

**Last\_Name CHAR(35) NOT NULL,**

**Interview\_Date DATE NOT NULL,**

**Staff\_ID INT(10) NOT NULL,**

**Street CHAR(35) NOT NULL,**

**City CHAR(35) NOT NULL,**

**State CHAR(35) NOT NULL,**

**Zip INT (5) NOT NULL,**

**Phone INT (11) NOT NULL,**

**Artist\_ID INT (10) NOT NULL,**

**Usual\_Type CHAR (35) NOT NULL,**

**Usual\_Style CHAR (35) NOT NULL,**

**Usual\_Medium (35) NOT NULL**

**);**

## Artist Table

**CREATE TABLE Artist (**

**Artist\_ID INT(10) NOT NULL AUTOINCREMENT Primary Key,**

**Artist\_SSN CHAR(10) NOT NULL,**

**First\_Name CHAR(35) NOT NULL,**

**Last\_Name CHAR(35) NOT NULL,**

**Interview\_Date DATE NOT NULL,**

**Staff\_ID INT(10) NOT NULL,**

**Street CHAR(35) NOT NULL,**

**City CHAR(35) NOT NULL,**

**State CHAR(35) NOT NULL,**

**Zip INT (5) NOT NULL,**

**Phone INT (11) NOT NULL,**

**Usual\_Type CHAR (35) NOT NULL**

**Usual\_Style CHAR (35) NOT NULL,**

**Usual\_Medium (35) NOT NULL);**

## Customer Table

**CREATE TABLE Customer (**

**Customer\_ID INT(10) NOT NULL AUTOINCREMENT Primary Key,**

**First\_Name CHAR(35) NOT NULL,**

**Last\_Name CHAR(35) NOT NULL,**

**Street CHAR(35) NOT NULL,**

**City CHAR(35) NOT NULL,**

**State CHAR(35) NOT NULL,**

**Zip INT (5) NOT NULL,**

**Phone INT (11) NOT NULL,**

**Artist\_ID INT(10) NOT NULL,**

**Usual\_Type CHAR (35) NOT NULL,**

**Usual\_Style CHAR (35) NOT NULL,**

**Preferred\_Medium (35) NOT NULL,**

**Show\_ID INT (10) NOT NULL**

**);**

## Artwork Table

**CREATE TABLE Artwork (**

**Inventory\_ID INT(10) NOT NULL AUTOINCREMENT Primary Key,**

**Invoice\_Num INT (35),**

**Artist\_ID INT(10) NOT NULL,**

**Title CHAR (35) NOT NULL**

**Year\_Completed DATE NOT NULL,**

**Type CHAR(35) NOT NULL,**

**Medium CHAR (35) NOT NULL,**

**Style CHAR (35) NOT NULL,**

**Size CHAR (6) NOT NULL,**

**Asking\_Price INT(10) NOT NULL,**

**Date\_Listed DATE NOT NULL,**

**Date\_Sold DATE NOT NULL**

**);**

## Sale Table

**CREATE TABLE Sale (**

**Invoice\_Num INT(10) NOT NULL AUTOINCREMENT Primary Key,**

**Inventory\_ID INT (10) NOT NULL,**

**Artist\_ID INT(10) NOT NULL,**

**Customer\_ID INT(10) NOT NULL,**

**Staff\_ID INT (10) NOT NULL,**

**Sale\_Date DATE NOT NULL,**

**Sale\_Price INT (10) NOT NULL,**

**Staff\_Commission INT (6) NOT NULL**

**);**

## Show Table

**CREATE TABLE Show (**

**Show\_ID INT(10) NOT NULL AUTOINCREMENT Primary Key,**

**Show\_Date DATE NOT NULL,**

**Artist\_Theme CHAR (35) NOT NULL,**

**Inventory\_ID INT(10) NOT NULL**

**);**

# Requirement 2 (Populate): Populate Artist Table With 3 Sample Records

## Sample Record #1 (Jean Basquiat)

INSERT INTO Artist (

Artist\_ID,

Arist\_SSN,

First\_Name,

Last\_Name,

Interview\_Date,

Street,

City,

State,

ZIP,

Phone,

Usual\_Type,

Usual\_Style,

Usual\_Medium,

Staff\_ID

)

VALUES (

1,

156666969,

“Jean”,

“Basquiat”,

2022-10-12,

“57 great Jones Street”,

“New York”,

“NY”,

10012,

2147483647,

“Painting”,

“Contemporary”

“Large”,

1

);

## Sample Record #2 (Andy Warhol)

INSERT INTO Artist (

Artist\_ID,

Arist\_SSN,

First\_Name,

Last\_Name,

Interview\_Date,

Street,

City,

State,

ZIP,

Phone,

Usual\_Type,

Usual\_Style,

Usual\_Medium,

Staff\_ID

)

VALUES (

2,

123659999,

“Andy”,

“Warhol”,

2022-10-02,

“321 East 6th Street”,

“New York”,

“NY”,

10003,

2147483645,

“Painting”,

“Modern”,

“Large”,

3

);

## Sample Record #2 (Grant Wood)

INSERT INTO Artist (

Artist\_ID,

Arist\_SSN,

First\_Name,

Last\_Name,

Interview\_Date,

Street,

City,

State,

ZIP,

Phone,

Usual\_Type,

Usual\_Style,

Usual\_Medium,

Staff\_ID

)

VALUES (

3,

168989456,

“Grant”,

“Wood”,

2022-09-05,

“5 Turner Alley, 810 Second Ave SE”,

“Cedar Rapids”,

“IA”,

52401,

1223232547,

“Painting”,

“Regionalism”,

“Medium”,

2

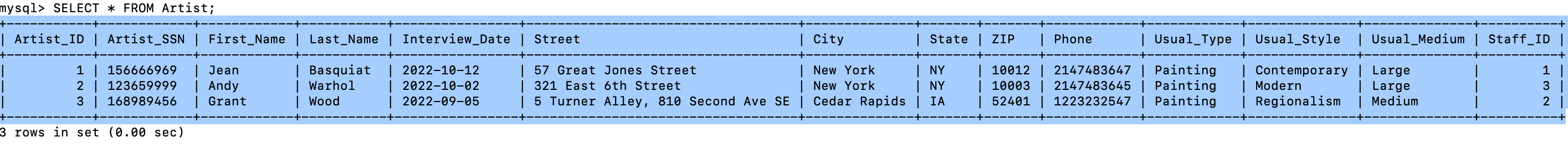
);

## SELECT \* Query

INPUT

SELECT \* FROM Artist;

OUTPUT



# Requirement 3 (Report): Standard Report Queries

## Buyer Sales Report #7

**Description: Shows buyers in alphabetical order by last name. Works purchased this year are listed for each buyer ordered by date of purchase.**

INPUT

SELECT Last\_Name, First\_Name, Inventory\_ID, Sale\_Date FROM Customer, Sale WHERE Customer.Customer\_ID = Sale.Customer\_ID AND Sale\_Date >= DATSESUB(CURDATE(), INTERVAL 1 YEAR) ORDER BY Last\_Name, First\_Name, Sale\_Date;

## Aged Artworks Report #10

**Description: Generated at the end of each month. Lists the works of art that have been for sale in the gallery for six months or more. BCCAG uses it to contact the artist or collector to determine whether the works should be returned, discounted, or remain for sale for an additional period of time.**

INPUT

SELECT Inventory\_ID, Date\_Listed FROM Artwork WHERE Date\_Listed <= DATESUB(CURDATE(), INTERVAL 6 MONTH);

## Art Show Details #12

**Description: Provides a historical record of each art show For each show, this report provides information about the dates, featured artist or theme, and works shown.**

INPUT

SELECT Show\_ID, Show\_Date, Artist\_Theme, Inventory\_ID FROM Show GROUP BY Show\_ID ORDER BY Show\_Date;