

CS 340 - Project Step 7

Group Name/Number: Group 71

Group Members: Darren Paddock & Vincent Chen

Project Title: Corvallis Pop-Up Art Gallery

URL: <http://flip2.engr.oregonstate.edu:61579/>

Executive Summary

Throughout the development of this project, there were a number of major changes that we made from the initial version to Step 7. Some of these changes were influenced by our peer reviewers while other changes were made by us to increase readability, usability, functionality and overall quality of the web application.

In Step 3, all four of our peer reviewers highlighted that we did not seem to have a NULLable relationship present between any of our entities. In response to this, we decided to implement a NULLable relationship between Artists and GalleryInventory in that Artists can have zero or many artworks in GalleryInventory. So, an artwork inside GalleryInventory will have NULL as the artist if the artist is to be deleted and an artwork can be added with NULL as the artist inside GalleryInventory. This implementation not only satisfies the project requirement of a NULLable relationship in our web app, but also the existing partial participation relationship between Artists and GalleryInventory.

To make our UPDATE and DELETE queries simpler to manipulate for the two M:M relationship tables, we decided to change from using the foreign keys as the primary keys to making a new primary key named event_artistId and event_inventoryId and using those primary keys for the GalleryEvents_Artists and GalleryEvents_GalleryInventory tables, respectively. In addition, we made our UPDATE and DELETE functionality reside within the “Edit” page of the selected row of data due to how we were querying from the database for these two tables. Subsequently, we implemented the same UPDATE and DELETE functionality from within an “Edit” page for all entities.

And based on our peer review of other classmates, we realized that it would be much more readable and user-friendly to display the names or descriptions of the foreign keys as the columns attached to each row in the GalleryInventory table, Events_Inventory table, and Events_Artists table, rather than just the foreign key Ids as the columns.

We are extremely satisfied with the changes we have made throughout the development of this project. Thanks to our peers and the review process for each Step, we were able to improve upon each iteration and make this web application into what it is today.

CS 340 TEAM EVALUATION FORM

MARCH 15, 2021

RATE YOUR TEAMS PERFORMANCE USING THE SCALE BELOW.

1 = Strongly Disagree 2 = Disagree 3 = Agree 4 = Strongly Agree

GROUP NUMBER	71	
NAME OF GROUP TEAM MEMBERS:	Darren Paddock & Vincent Chen	
SCALE AND COMMENTS	RATING	ADDITIONAL COMMENTS
HOW PREPARED WAS YOUR TEAM? Research, reading, and assignment complete	4	
HOW RESPONSIVE & COMMUNICATIVE WERE YOU BOTH AS A TEAM? Responded to requests and assignment modifications needed. Initiated and responded appropriately via email, Slack etc.	4	
DID BOTH GROUP MEMBERS PARTICIPATE EQUALLY Contributed best academic ability	4	
DID YOU BOTH FOLLOW THE INITIAL TEAM CONTRACT? Were both team members both positive and productive?	4	

Project Outline and Database Outline, ERD, and Schema

Division of work:

- Darren: Artists, GalleryEvents_Artists, GalleryEvents
- Vincent: GalleryInventory, GalleryEvents_GalleryInventory, Styles, Mediums

Overview

We're tasked with designing a relational database for a successful local artist, Paul Picasso, who wishes to have a pop-up gallery that opens 12 times this year (one event per month) in Corvallis, Oregon. This fictional pop-up will be featuring Paul and other local artists and allow them a place to display their collection of work. There are currently 8 artists that have signed up to showcase this year, but more can be added through this database. This pop-up will only be open at night during "events". In normal business hours, this pop-up is actually a cafe, but the owner is kind enough to lend this space for free. The successful local artist hosting the pop-up requires a database to keep track of each artist, their respective work in our inventory, artworks to be displayed at each pop-up event, the events themselves, as well as the style and medium of each artwork.

Our current inventory contains 10 artwork pieces. This inventory can be added or removed on the website.

Sales are not allowed during pop-up events. Instead, sales occur with each individual artist and the buyer would have to contact the individual artist after the event to purchase. Therefore, purchases, customers, and other related sales information are not tracked within this database.

Local artists here frequently use the following Mediums: *Oil, Acrylic, Charcoal, Glass, Pencil, Pastel*. Their preferred Styles are: *Realism, Painterly, Abstract, Impressionism, Expressionism/Fauvism*. This database will pre-populate to contain these Styles and Mediums, but more can be added on the website.

The database driven website will record the following entities: **Artists, GalleryInventory, Styles, Mediums, and GalleryEvents**. It will also record the 2 M:M relationships between **GalleryEvents** and **Artists** & **GalleryEvents** and **GalleryInventory**.

Database Outline, in Words

Artists: records the details of Artists using the pop up shop.

Attributes:

artistId: int, auto_increment, PK
firstName: varchar, not NULL
lastName: varchar, not NULL
email: varchar, not NULL, UNIQUE
phone: char(10), not NULL
CONSTRAINT fullName UNIQUE(firstName, lastName)

Relationship:

- a (1:M) relationship between Artists and GalleryInventory. An Artist can have many artwork pieces in the galleryInventory but each artworkName has only one Artist. The artistId is used as a FK inside of GalleryInventory.

GalleryInventory: records the details of each artwork that the pop-up shop has in inventory.

Attributes:

inventoryId: int, auto_increment, not NULL, PK
artworkName: varchar, NOT NULL
artistId: FK, int, coming from Artists table
styleId: FK, int, NOT NULL coming from Styles table
mediumId: FK, int, NOT NULL coming from Mediums table
CONSTRAINT uniqueArtwork UNIQUE(artworkName, artistId)
FOREIGN KEY (artistId) REFERENCES Artists(artistId) ON DELETE SET NULL
FOREIGN KEY (styleId) REFERENCES Styles(styleId)
FOREIGN KEY (mediumId) REFERENCES Mediums(mediumId)

Relationships:

1. a (M:1) relationship between GalleryInventory and Artists, described within the Artists relationship description.
2. a (M:1) relationship between GalleryInventory and Styles is implemented with styleId as a FK inside of GalleryInventory
3. a (M:1) relationship between GalleryInventory and Mediums is implemented with mediumId as a FK inside of GalleryInventory

Styles: This table includes two columns. One column for a styleId and another for an associated styleDescription. styleDescription will be pre-populated to these five different values: Realism, Painterly, Abstract, Impressionism, Expressionism/Fauvism.

Attributes:

styleId: int, auto_increment, not NULL, PK
styleDescription: varchar, not NULL, UNIQUE

Relationships:

- a (1:M) relationship between Styles and GalleryInventory. One styleDescription per artwork (artworkName) but there can be many artworks with the same styleDescription. This is implemented as a FK inside of GalleryInventory.

Mediums: This table includes two columns. One column for a mediumId and another for an associated mediumDescription. mediumDescription will be pre-populated to these six different values: Oil, Acrylic, Charcoal, Glass, Pencil, Pastel.

Attributes:

mediumId: int, auto_increment, not NULL, PK
mediumDescription: varchar, not NULL, UNIQUE

Relationships:

- a (1:M) relationship between Mediums and GalleryInventory. One mediumDescription per artwork (artworkName) but there can be many artworks with the same mediumDescription. This is implemented as a FK inside of GalleryInventory.

GalleryEvents: records the 12 events this pop-up will showcase this year.

Attributes:

eventId: int, auto_increment, not NULL, PK

eventName: varchar, UNIQUE, not NULL

eventDate: date, UNIQUE, not NULL

Relationships:

- 1. a (M:M) relationship between GalleryEvents and Artists. A GalleryEvent may include many artists and an Artist may attend many GalleryEvents.

- **GalleryEvents_Artists** (Intersecting table representing relationship):

Attributes:

event_artistId int (11) AUTO_INCREMENT, NOT NULL, PRIMARY KEY,

eventId: int, not NULL, FK from GalleryEvents

artistId: int, not NULL, FK from Artists

FOREIGN KEY (eventId) REFERENCES GalleryEvents(eventId) ON DELETE CASCADE

FOREIGN KEY (artistId) REFERENCES Artists(artistId) ON DELETE CASCADE

- 2. a (M:M) relationship between GalleryEvents and GalleryInventory. A GalleryEvent may include many artworks from the GalleryInventory. And an inventoryId may be displayed at many GalleryEvents. The maximum number of artwork pieces per event is 10 artwork pieces.

- **GalleryEvents_GalleryInventory** (Intersecting table representing relationship):

Attributes:

event_inventoryId int (11) AUTO_INCREMENT, NOT NULL, PRIMARY KEY,

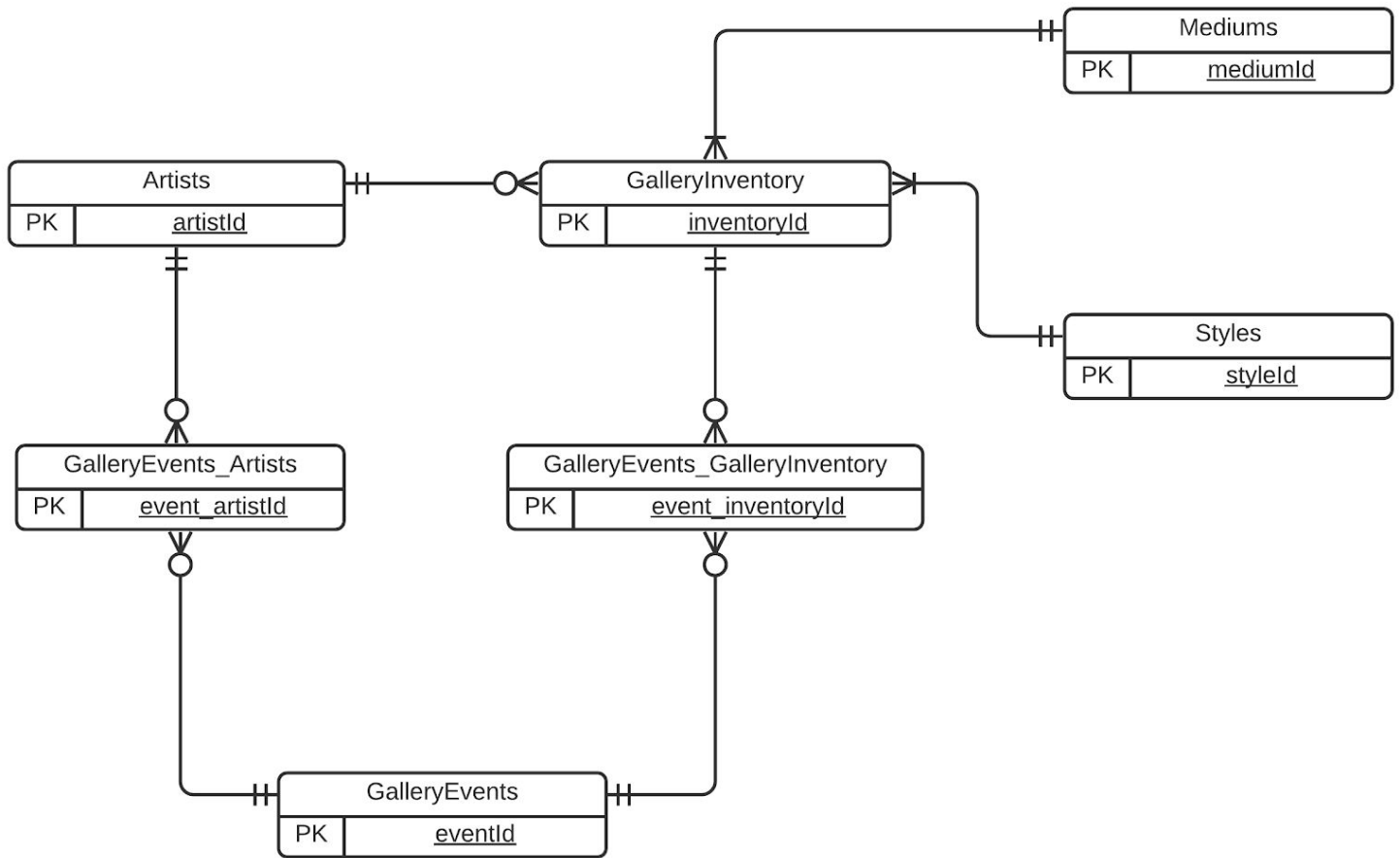
eventId: int, not NULL, FK from GalleryEvents

inventoryId: int, not NULL, FK from GalleryInventory

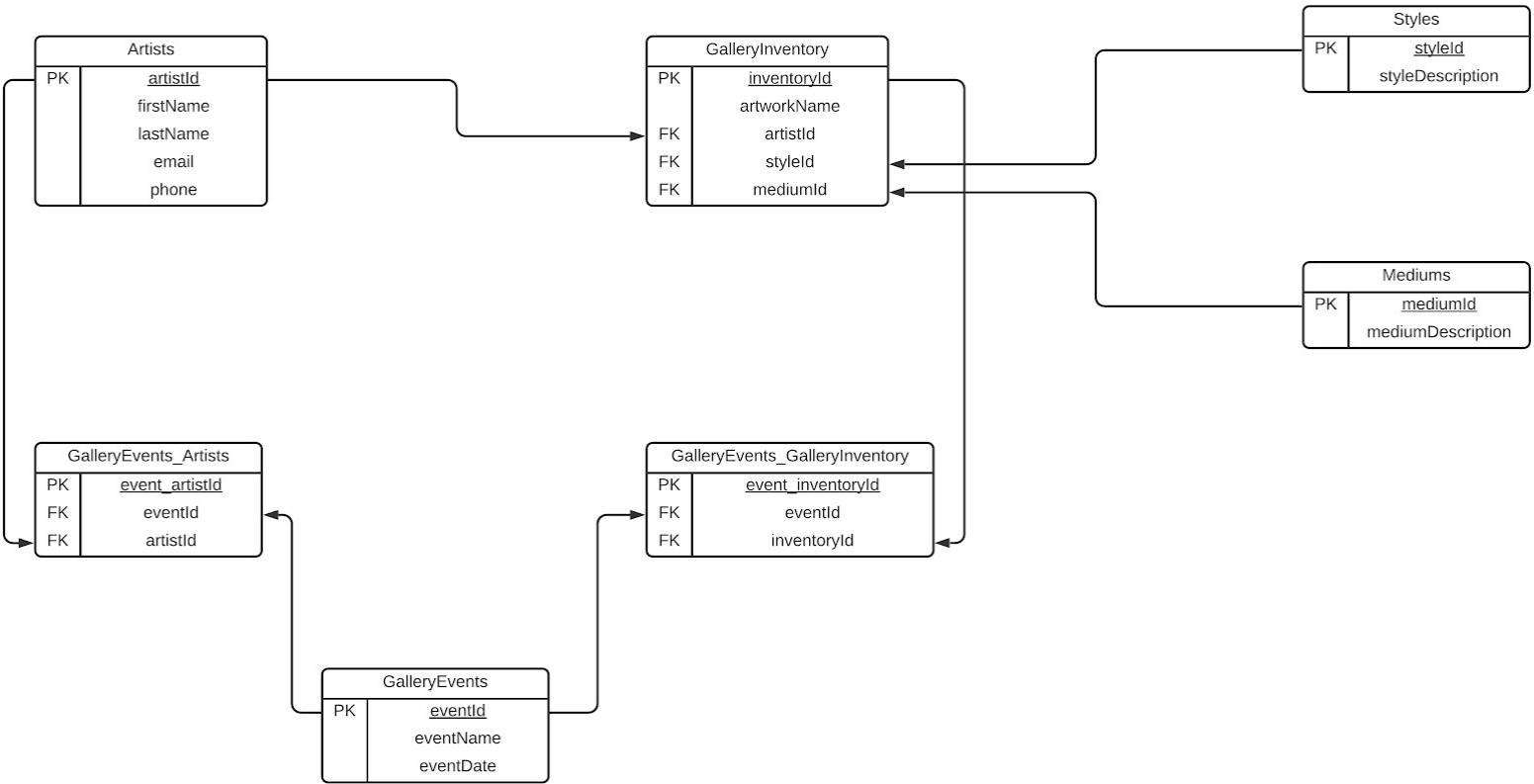
FOREIGN KEY (eventId) REFERENCES GalleryEvents(eventId) ON DELETE CASCADE

FOREIGN KEY (inventoryId) REFERENCES GalleryInventory(inventoryId) ON DELETE CASCADE

Entity-Relationship Diagram:



Schema:



UI Screenshots

Index page

Corvallis Pop-Up Art Gallery

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Mediums

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Events_Artists

Artists

View, add, modify and remove artists

Gallery Events

View, add, modify and remove planned events

Gallery Inventory

View, add, modify and remove gallery inventory items

Styles

View, add, and modify artistic styles

Mediums

View, add, and modify artistic mediums

Events_Inventory

View, add, modify and remove gallery items showcasing at events

Events_Artists

View, add, modify and remove artists attending events

READ/BROWSE/DISPLAY **Artists** page

Artists

Search artists

Search

Artists Table

Artist Id	First Name	Last Name	Email	Phone	Edit
1	Bartholomeus	Wapplington	bwapplington0@europa.eu	4295939266	<div>Edit</div>
2	Maible	Frenchum	mfrenchum1@washingtonpost.com	1373031077	<div>Edit</div>
3	Florian	Kiely	fkiely2@loc.gov	8226627070	<div>Edit</div>
4	Milty	O'Rudden	morudden3@histats.com	1562985754	<div>Edit</div>
5	Jamill	Loudwell	jloudwell0@ocn.ne.jp	8118741040	<div>Edit</div>
6	Maison	Joynes	mjoynes1@newsvine.com	8979627642	<div>Edit</div>
7	Clemmie	Cuffe	ccuffe2@ted.com	6603127737	<div>Edit</div>
8	Paul	Picasso	ppicasso12@gmail.com	1852627837	<div>Edit</div>

Add artist

Add

SEARCH/FILTER **Artists**

*The search fields are dynamic. In other words, the user can SEARCH/FILTER by using all the fields or only some of the fields.

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Artists

Search artists

<input type="text" value="Paul"/>	<input type="text" value="Last name"/>
<input type="text" value="Email address"/>	<input type="text" value="Phone number"/>
<input type="button" value="Search"/>	

Artists Table

Artist Id	First Name	Last Name	Email	Phone	Edit
8	Paul	Picasso	ppicasso12@gmail.com	1852627837	<input type="button" value="Edit"/>

INSERT/ADD to **Artists**

Artists

Search artists

Search

Artists Table

Artist Id	First Name	Last Name	Email	Phone	Edit
1	Bartholomeus	Wapplington	bwapplington0@europa.eu	4295939266	<div>Edit</div>
2	Maible	Frenchum	mfrenchum1@washingtonpost.com	1373031077	<div>Edit</div>
3	Florian	Kiely	fkiely2@loc.gov	8226627070	<div>Edit</div>
4	Milty	O'Rudden	morudden3@histats.com	1562985754	<div>Edit</div>
5	Jamill	Loudwell	jloudwell0@ocn.ne.jp	8118741040	<div>Edit</div>
6	Maison	Joynes	mjoynes1@newsvine.com	8979627642	<div>Edit</div>
7	Clemmie	Cuffe	ccuffe2@ted.com	6603127737	<div>Edit</div>
8	Paul	Picasso	ppicasso12@gmail.com	1852627837	<div>Edit</div>
9	John	Smith	jsmith@yahoo.com	1234563242	<div>Edit</div>

Add artist

Add

EDIT/UPDATE & DELETE **Artists** (part 1)

*Click the 'Edit' button to UPDATE or DELETE the row

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Artists

Search artists

Artists Table

Artist Id	First Name	Last Name	Email	Phone	Edit
1	Bartholomeus	Waplington	bwaplington0@europa.eu	4295939266	<input type="button" value="Edit"/>
2	Maible	Frenchum	mfrenchum1@washingtonpost.com	1373031077	<input type="button" value="Edit"/>
3	Florian	Kiely	fkiely2@loc.gov	8226627070	<input type="button" value="Edit"/>
4	Milty	O'Rudden	morudden3@histats.com	1562985754	<input type="button" value="Edit"/>
5	Jamill	Loudwell	jloudwell0@ocn.ne.jp	8118741040	<input type="button" value="Edit"/>
6	Maison	Joynes	mjoynes1@newsvine.com	8979627642	<input type="button" value="Edit"/>
7	Clemmie	Cuffe	ccuffe2@ted.com	6603127737	<input type="button" value="Edit"/>
8	Paul	Picasso	ppicasso12@gmail.com	1852627837	<input type="button" value="Edit"/>
9	John	Smith	jsmith@yahoo.com	1234563242	<input type="button" value="Edit"/>

Add artist

EDIT/UPDATE & DELETE **Artists** (part 2)

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Edit Artist

READ/BROWSE/DISPLAY **GalleryEvents** page

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Events Table

Event Id	Event Name	Date	Edit
1	January	2021-01-19	Edit
2	February	2021-02-06	Edit
3	March	2021-03-19	Edit
4	April	2021-04-02	Edit
5	May	2021-05-05	Edit
6	June	2020-06-29	Edit

Add event

[Add](#)

INSERT/ADD to **GalleryEvents**

Gallery Events

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Events Table

Event Id	Event Name	Date	Edit
1	January	2021-01-19	Edit
2	February	2021-02-06	Edit
3	March	2021-03-19	Edit
4	April	2021-04-02	Edit
5	May	2021-05-05	Edit
6	June	2020-06-29	Edit
7	July	2021-07-03	Edit

Add event

[Add](#)

EDIT/UPDATE & DELETE GalleryEvents (part 1)

*Click the 'Edit' button to UPDATE or DELETE the row


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Gallery Events

Events Table

Event Id	Event Name	Date	Edit
1	January	2021-01-19	Edit
2	February	2021-02-06	Edit
3	March	2021-03-19	Edit
4	April	2021-04-02	Edit
5	May	2021-05-05	Edit
6	June	2020-06-29	Edit
7	July	2021-07-03	Edit

Add event




[Add](#)

EDIT/UPDATE & DELETE GalleryEvents (part 2)

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Edit Event



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Inventory Table

Inventory Id	Artwork	Artist	Style Description	Medium Description	Edit
1	Planets	Bartholomeus Wapplington	Realism	Oil	Edit
2	Clouds	Maible Frenchum	Painterly	Acrylic	Edit
3	Oceans	Florian Kiely	Abstract	Charcoal	Edit
4	Mountains	Milty O'Rudden	Impressionism	Glass	Edit
5	Beach	Maible Frenchum	Expressionism/Fauvism	Pencil	Edit
6	Sunsets	Florian Kiely	Impressionism	Pastel	Edit
7	Moon	Jamill Loudwell	Painterly	Charcoal	Edit
8	Skies	NULL	Abstract	Pastel	Edit
9	Stars	Paul Picasso	Realism	Charcoal	Edit
10	Galaxy	Paul Picasso	Realism	Glass	Edit

Add artwork

Artwork name

Choose Artist..

Choose Style..

Choose Medium..

Add

INSERT/ADD to **GalleryInventory**

Inventory Table

Inventory Id	Artwork	Artist	Style Description	Medium Description	Edit
1	Planets	Bartholomeus Wapplington	Realism	Oil	Edit
2	Clouds	Maible Frenchum	Painterly	Acrylic	Edit
3	Oceans	Florian Kiely	Abstract	Charcoal	Edit
4	Mountains	Milty O'Rudden	Impressionism	Glass	Edit
5	Beach	Maible Frenchum	Expressionism/Fauvism	Pencil	Edit
6	Sunsets	Florian Kiely	Impressionism	Pastel	Edit
7	Moon	Jamill Loudwell	Painterly	Charcoal	Edit
8	Skies	NULL	Abstract	Pastel	Edit
9	Stars	Paul Picasso	Realism	Charcoal	Edit
10	Galaxy	Paul Picasso	Realism	Glass	Edit
11	Test	Bartholomeus Wapplington	Abstract	Oil	Edit

Add artwork

Add

EDIT/UPDATE & DELETE GalleryEvents (part 1)

*Click the 'Edit' button to UPDATE or DELETE the row

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Inventory Table

Inventory Id	Artwork	Artist	Style Description	Medium Description	Edit
1	Planets	Bartholomeus Wapplington	Realism	Oil	Edit
2	Clouds	Maible Frenchum	Painterly	Acrylic	Edit
3	Oceans	Florian Kiely	Abstract	Charcoal	Edit
4	Mountains	Milty O'Rudden	Impressionism	Glass	Edit
5	Beach	Maible Frenchum	Expressionism/Fauvism	Pencil	Edit
6	Sunsets	Florian Kiely	Impressionism	Pastel	Edit
7	Moon	Jamill Loudwell	Painterly	Charcoal	Edit
8	Skies	NULL	Abstract	Pastel	Edit
9	Stars	Paul Picasso	Realism	Charcoal	Edit
10	Galaxy	Paul Picasso	Realism	Glass	Edit
11	Test	Bartholomeus Wapplington	Abstract	Oil	Edit

Add artwork

EDIT/UPDATE & DELETE GalleryEvents (part 2)

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Edit Inventory

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Art Styles

Styles Table

Style Id	Style Description	Edit
1	Realism	Edit
2	Painterly	Edit
3	Abstract	Edit
4	Impressionism	Edit
5	Expressionism/Fauvism	Edit

Add style

Style name

Add

INSERT/ADD to **Styles**

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Art Styles

Styles Table

Style Id	Style Description	Edit
1	Realism	Edit
2	Painterly	Edit
3	Abstract	Edit
4	Impressionism	Edit
5	Expressionism/Fauvism	Edit
7	TestStyle	Edit

Add style

TestStyle

Add







EDIT/UPDATE **Styles** (part 1)

*Click the 'Edit' button to UPDATE the row


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Art Styles

Styles Table

Style Id	Style Description	Edit
1	Realism	
2	Painterly	
3	Abstract	
4	Impressionism	
5	Expressionism/Fauvism	
7	TestStyle	



Add style



EDIT/UPDATE **Styles** (part 2)

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Edit Styles

READ/BROWSE/DISPLAY **Mediums** page

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Art Mediums

Mediums Table

Medium Id	Medium Description	Edit
1	Oil	Edit
2	Acrylic	Edit
3	Charcoal	Edit
4	Glass	Edit
5	Pencil	Edit
6	Pastel	Edit

Add medium

Medium name

Add

INSERT/ADD to **Mediums**

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Art Mediums

Mediums Table

Medium Id	Medium Description	Edit
1	Oil	Edit
2	Acrylic	Edit
3	Charcoal	Edit
4	Glass	Edit
5	Pencil	Edit
6	Pastel	Edit
7	TestMedium	Edit

Add medium

TestMedium

Add

EDIT/UPDATE **Mediums** (part 1)

*Click the 'Edit' button to UPDATE the row

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Art Mediums

Mediums Table

Medium Id	Medium Description	Edit
1	Oil	<button>Edit</button>
2	Acrylic	<button>Edit</button>
3	Charcoal	<button>Edit</button>
4	Glass	<button>Edit</button>
5	Pencil	<button>Edit</button>
6	Pastel	<button>Edit</button>
7	TestMedium	<button>Edit</button>

Add medium

Add

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Edit Mediums

Update Medium Cancel

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Events_Inventory

Artworks Showcasing at Events Table

Event_Inventory Id	Event Id	Event Name	Inventory Id	Artwork	Edit
1	2	February	3	Oceans	Edit
2	3	March	4	Mountains	Edit
3	4	April	5	Beach	Edit

Add an Artwork to an Event

Choose Event..

Choose Artwork..

Add

INSERT/ADD to **GalleryEvents_GalleryInventory**

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Events_Inventory

Artworks Showcasing at Events Table

Event_Inventory Id	Event Id	Event Name	Inventory Id	Artwork	Edit
1	2	February	3	Oceans	Edit
2	3	March	4	Mountains	Edit
3	4	April	5	Beach	Edit
4	2	February	7	Moon	Edit

Add an Artwork to an Event

February

Moon

Add

EDIT/UPDATE & DELETE GalleryEvents_GalleryInventory (part 1)

*Click the 'Edit' button to UPDATE or DELETE the row

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Events_Inventory

Artworks Showcasing at Events Table

Event_Inventory Id	Event Id	Event Name	Inventory Id	Artwork	Edit
1	2	February	3	Oceans	Edit
2	3	March	4	Mountains	Edit
3	4	April	5	Beach	Edit
4	2	February	7	Moon	Edit

Add an Artwork to an Event

Add

EDIT/UPDATE & DELETE GalleryEvents_GalleryInventory (part 2)

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Edit Events_Inventory

Update Delete Cancel

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Events_Artists

Artists Attending at Events Table

Event_Artist Id	Event Id	Event Name	Artist Id	Artist	Edit
1	1	January	2	Maible Frenchum	Edit
2	1	January	3	Florian Kiely	Edit
3	2	February	2	Maible Frenchum	Edit
4	2	February	4	Milty O'Rudden	Edit
5	3	March	2	Maible Frenchum	Edit
6	3	March	3	Florian Kiely	Edit

Add an Artist to an Event

Choose Event..

Choose Artist's Full Name..

Add

INSERT/ADD to **GalleryEvents_Artists**

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Events_Artists

Artists Attending at Events Table

Event_Artist Id	Event Id	Event Name	Artist Id	Artist	Edit
1	1	January	2	Maible Frenchum	Edit
2	1	January	3	Florian Kiely	Edit
3	2	February	2	Maible Frenchum	Edit
4	2	February	4	Milty O'Rudden	Edit
5	3	March	2	Maible Frenchum	Edit
6	3	March	3	Florian Kiely	Edit
7	6	June	8	Paul Picasso	Edit

Add an Artist to an Event

June

Paul Picasso

Add

EDIT/UPDATE & DELETE GalleryEvents_Artists (part 1)

*Click the 'Edit' button to UPDATE or DELETE the row

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Events_Artists

Artists Attending at Events Table

Event_Artist Id	Event Id	Event Name	Artist Id	Artist	Edit
1	1	January	2	Maible Frenchum	Edit
2	1	January	3	Florian Kiely	Edit
3	2	February	2	Maible Frenchum	Edit
4	2	February	4	Milty O'Rudden	Edit
5	3	March	2	Maible Frenchum	Edit
6	3	March	3	Florian Kiely	Edit
7	6	June	8	Paul Picasso	Edit

Add an Artist to an Event

[Add](#)

EDIT/UPDATE & DELETE GalleryEvents_Artists (part 2)

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