

"NGO and Art Gallery Database"

"MySQL Database Design"

Art for Welfare project acts as a bridge between artistic expression and impactful social change, allowing artists to contribute their talents to support NGOs.

Through this unique platform, artists create and showcase their works, while customers purchase these artworks, with the funds directly benefiting NGOs dedicated to making a positive impact on society.

Team members:

Manasi Sanjay Diwate

Rahul Nale

Shubham Shesherao Kale

Suraj Anil Abhale

Introduction

- The purpose of this database is to facilitate the Art for Welfare project, serving as a robust system that connects artistic expression with social impact.
- This initiative allows artists to contribute their talents to support Non-Governmental Organizations (NGOs) dedicated to positive societal change.

Entities involved in the database:

- **NGO:** Representing non-profit organizations with missions for societal betterment.
- **Artists:** Individuals contributing their artistic creations to the platform.
- **Artworks:** The creative outputs of artists, showcased for potential buyers.
- **Customers:** Individuals interested in purchasing artworks to support the cause.
- **Transactions:** Encompassing the processes of orders, donations, and reflecting the financial and interactive aspects of the platform.

NGO Table

ngo		
PK	ngo_id	int
	name	varchar(50)
	email	varchar(50)
	goal	varchar(100)
	address	varchar(50)
	donation	decimal

Constraints:

PRIMARY KEY: ngoid_pk

- This table captures essential information about NGOs participating in the Art for Welfare project.
- It includes their identification (ngo_id), name, email, goal, address, and total donation received.
- The ngoid_pk constraint ensures the uniqueness and integrity of the primary key

Artists Table

artists		
PK	artist_id	int
	name	varchar(50)
	email	varchar(50)
	address	varchar(50)

Constraints:

PRIMARY KEY: artist_id

- This table represents artists contributing to the Art for Welfare platform.
- It includes information such as artist_id (a unique identifier), name and contact information.

Artworks Table

artworks		
PK	artwork_id	int
FK	artist_id	int
	title	varchar(50)
	price	decimal
	type	varchar(50)
	available	int

Constraints:

PRIMARY KEY: artwork_id (Unique identifier for artworks)

FOREIGN KEY: artist_id (References Artists(artist_id))

ON DELETE SET NULL: Preserves historical data if associated artist is deleted

- This table encapsulates the creative outputs of artists, known as artworks.
- Each artwork is uniquely identified by artwork_id.
- It includes details such as title, description, price, and the artist_id referencing the Artists table.

- The ON DELETE SET NULL constraint ensures that if an artist is deleted, the artist_id in the Artworks table is set to NULL, preserving the historical data of the artworks.

Customers Table

customers		
PK	customer_id	int
	name	varchar(50)
	email	varchar(50)
	address	varchar(50)

Constraints:

PRIMARY KEY: customer_id
(Unique identifier for customers)

- This table represents individuals interested in purchasing artworks to support the Art for Welfare cause.
- Each customer is uniquely identified by customer_id. It includes information such as the customer's name and email.
- The primary key constraint ensures the uniqueness and integrity of the customer_id.

Transactions Table

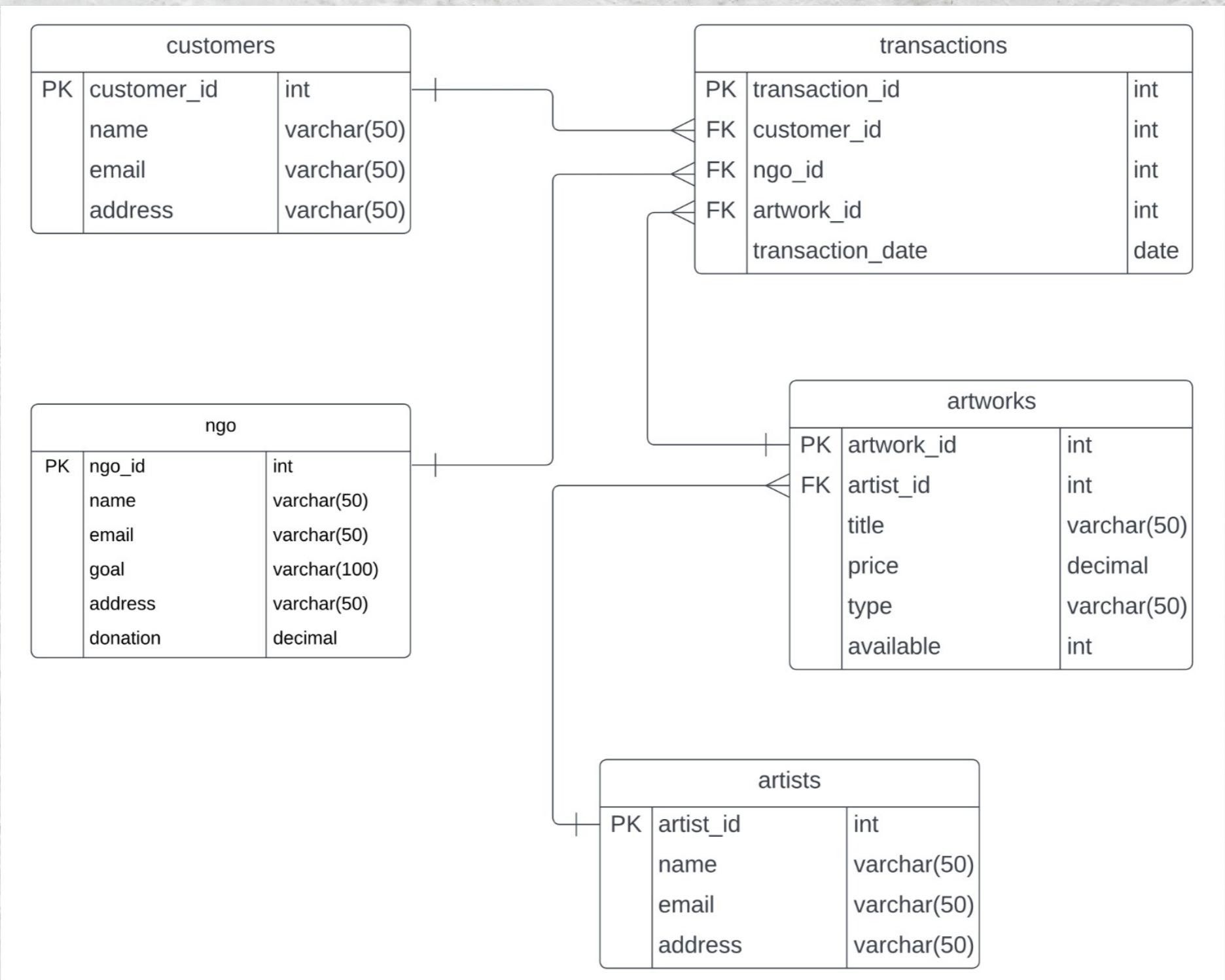
transactions			
PK	transaction_id	int	
FK	customer_id	int	
FK	ngo_id	int	
FK	artwork_id	int	
	transaction_date	date	

Constraints:

PRIMARY KEY: transaction_id
(Unique identifier for transactions)
FOREIGN KEY: customer_id
(References Customers(customer_id))
FOREIGN KEY: artwork_id
(References Artworks(artwork_id))
FOREIGN KEY: ngo_id
(References NGOs(ngo_id))

- This table captures various transactions within the Art for Welfare platform, including orders and donations. Each transaction is uniquely identified by transaction_id.
- It involves associations with customers, artworks, and NGOs through foreign keys.
- The transaction_date records when the transaction occurred.
- This structure ensures data integrity and facilitates the tracking of financial and interactive aspects of the platform.

ER-Diagram



PL-Query

Triggers:

AT_INSERT: AFTER INSERT ON transactions

Stored Procedures:

unavailable_artworks()

available_artworks()

add_transaction(customer_id int, artwork_id int, ngo_id int)

Stored Functions:

iscustomer_id_present(customer_id int)

isngo_id_present(ngo_id int)

isartwork_id_present(artwork_id int)

Conclusion

- In conclusion, this database design ensures a cohesive system where artists' creations are showcased, customers engage in transactions to support NGOs.
- The interconnected nature of the tables, maintained through foreign key relationships, guarantees a robust platform for the Art for Welfare project.

Q&A