Art Gallery

Description

Gallery contains some tables like artists customers type of art, groups etc. which have information about them. First, we have a **Country** table which has an id and name. Then each gallery has some **Customers**. They must register before purchasing. Customers are known by customer name, address, the amount that they have spent and country. Registered customers can follow different group of art, choose any type of group, artist and so on. Here are more tables and their data.

Customer follows groups: name of a customer and group of art.

Types of art: type of art id, art type.

Artists table: artist name, birthplace, age, style of art.

Groups: group id and name.

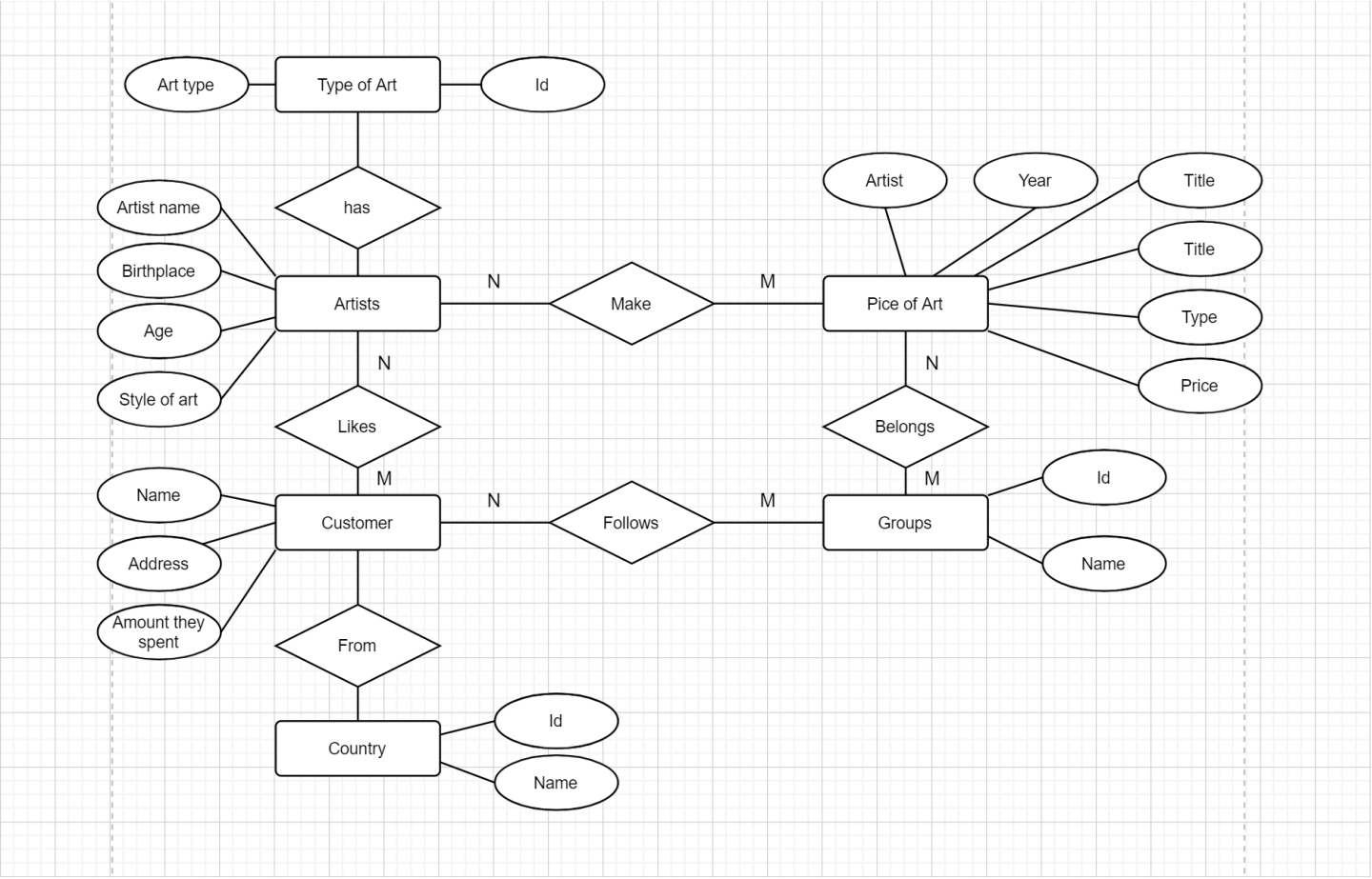
Piece of art: artist, year, title, type and price.

Customers follows artists: customer name, art name.

Artist makes piece/s of art: artist name, piece of art title.

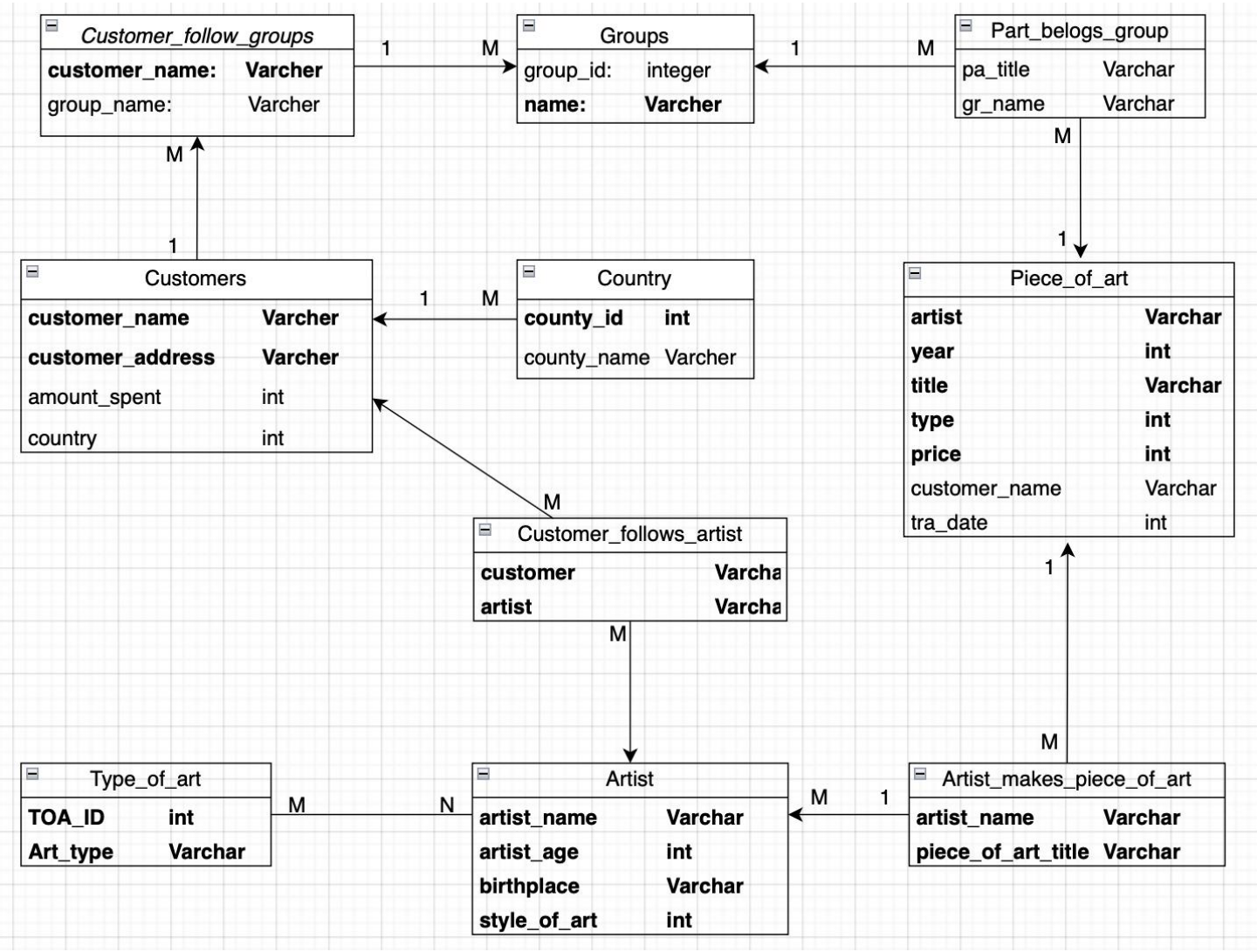
Art belong group: painting title, group name.

Entity relationship diagram

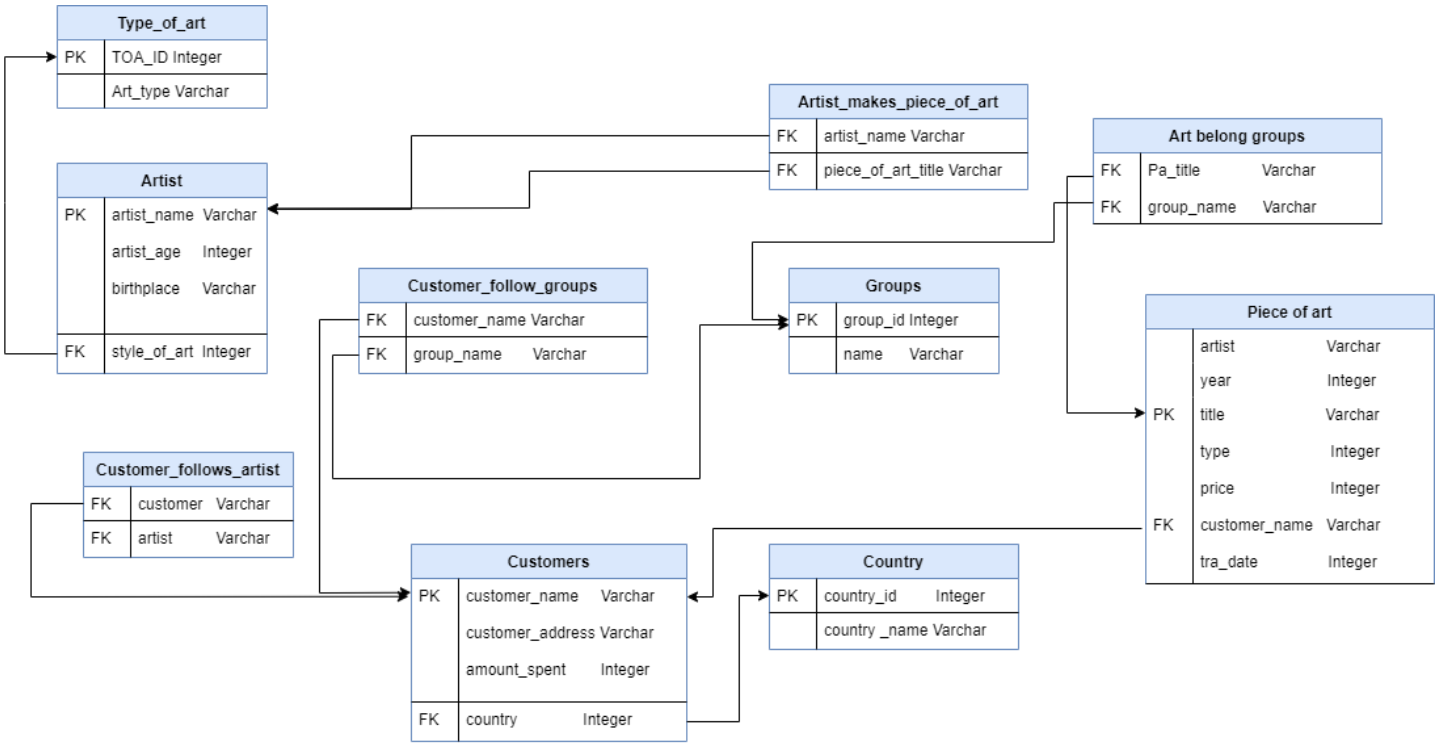


- One **TYPE_OF_ART** can be related to many **ARTISTS**, as each artist can have a specific style of art, and that style can be referenced by the **TOA_ID** in the **TYPE_OF_ART** table.
- One **COUNTRY** can be related to many **CUSTOMERS**, as each customer can have a country of origin and that origin can be referenced by the **COUNTRY_ID** in the **COUNTRY** table.
- One **CUSTOMER** can be related to many **PIECESOFART**, as a customer can purchase multiple pieces of art, and that customer's name can be referenced by the **CUSTOMERNAME** in the **PIECESOFART** table.
- One **ARTIST** can be related to many **PIECESOFART**, as an artist can create multiple pieces of art, and that artist's name can be referenced by the **ARTIST_NAME** in the **ARTISTS_MAKE_PIECESOFART** table.
- One **ARTIST** can be followed by many **CUSTOMERS**, as multiple customers can follow an artist, and that artist's name can be referenced by the **AR_NAME** in the **CUSTOMER_FOLLOWS_ARTISTS** table.
- One **TYPE_OF_ART** can be related to many **ART_GROUP**, as a type of art can be related to multiple art groups, and that type of art can be referenced by the **ARTGROUP_TYPE** in the **ART_GROUP** table.

Relational Schema plus Normalization Forms



- **TYPE_OF_ART** table: stores the types of art and has a primary key constraint on the **TOA_ID** column.
- **ARTISTS** table: stores information about the artists and has a primary key constraint on the **A_NAME** column and a foreign key constraint referencing the **TYPE_OF_ART** table.
- **COUNTRY** table: stores the country name and id, and has a primary key constraint on the **COUNTRY_ID** column.
- **CUSTOMERS** table: stores information about customers and has a primary key constraint on the **CUSTOMER_NAME** column and a foreign key constraint referencing the **COUNTRY** table.
- **PIECESOFART** table: stores information about pieces of art and has a primary key constraint on the **TITLE** column and a foreign key constraint referencing the **CUSTOMERS** table.
- **ARTISTS_MAKE_PIECESOFART** table: stores relationship between artist and pieces of art and has a primary key constraint and foreign key constraints referencing **ARTISTS** and **PIECESOFART** tables.
- **CUSTOMER_FOLLOWS_ARTISTS** table: stores relationship between customers and artists and has a primary key constraint and foreign key constraints referencing **CUSTOMERS** and **ARTISTS** tables.
- **ART_GROUP** table: stores the art group and has a primary key constraint on the **ARTGROUP_ID** column and a foreign key constraint referencing the **TYPE_OF_ART** table.


Type_of_art
PK TOA_ID Integer
Art_type Varchar
Artist_makes_piece_of_art
FK artist_name Varchar
FK piece_of_art_title Varchar
Art belong groups
FK Pa_title Varchar
FK group_name Varchar
Artist
PK artist_name Varchar
artist_age Integer
birthplace Varchar
FK style_of_art Integer
Customer_follow_groups
FK customer_name Varchar
FK group_name Varchar
Groups
PK group_id Integer
name Varchar
Piece of art
artist Varchar
year Integer
PK title Varchar
type Integer
price Integer
FK customer_name Varchar
tra_date Integer
Customer_follows_artist
FK customer Varchar
FK artist Varchar
Customers
PK customer_name Varchar
customer_address Varchar
amount_spent Integer
FK country Integer
Country
PK country_id Integer
country _name Varchar