

HOMEWORK 01

DESIGNNING CLASSES

1. A **work of art**, displayed in a gallery or museum.

Work Of Art
+ ID: int
+ title: string
+ artist: List<Artist>
+ creationDate: Time
+ width: float
+ height: float
+ weight: float
+ type: string
+ description: string
+ price: float
+ storeAt: List<Gallery>

Work of Art is a product of the creative arts which is stored and displayed in a gallery or museum such as a painting, or a sculpture.

```
CREATE TABLE WorkOfArt (
    workart_ID INT NOT NULL,
    title VARCHAR(50) NOT NULL,
    creation_date TIME,
    width FLOAT NOT NULL,
    height FLOAT NOT NULL,
    weight FLOAT,
    type VARCHAR(50),
    workart_description VARCHAR(100),
    price FLOAT
);
```

2. An **automobile**, registered with the Motor Vehicle Department.

Automobile
+ vehicleIdentificationNumber (VIN): string
+ licensePlateNumber: string
+ titleNumber: string
+ registrationDate: TIME
+ class: string
+ make: string
+ model: string
+ year: TIME
+ color: string
+ state: string
+ ownerName: string
+ ownerAddress: string

Automobile is a usually four-wheeled road vehicle which is designed for passenger transportation and is powered by an internal combustion engine or electronic motor.

```
CREATE TABLE Automobile (
    VIN VARCHAR(12) NOT NULL,
    license_plate_number VARCHAR(10) NOT NULL,
    title_number VARCHAR(10) NOT NULL,
    registration_date TIME NOT NULL,
    class VARCHAR(10) NOT NULL,
    make VARCHAR(10) NOT NULL,
    model VARCHAR(10) NOT NULL,
    year TIME NOT NULL,
    color VARCHAR(10),
    state VARCHAR(2) NOT NULL,
    owner_name VARCHAR(50) NOT NULL,
    owner_address VARCHAR(100) NOT NULL
);
```

3. A **pizza**, that is on the menu at a restaurant.

Pizza				
+ ID: int				
+ name: string				
+ size: int				
+ crust: Crust				
+ topping: List<Topping>				
+ price: float				

Pizza is a dish consisting of a layer of dough crust with different types of toppings on the top.

```
CREATE TABLE Pizza (  
    pizza_ID INT NOT NULL,  
    pizza_name VARCHAR(20) NOT NULL,  
    pizza_size int NOT NULL,  
    price FLOAT  
);
```