

Python and database

tutorial

1. A database contains information about the works of art in each city. Each work is characterized by a code, the name, the category (painting, sculpture, or architecture), the city and the country in which it is located. For each work, the author is known. Each author is characterized by a code, a name, a surname, a year of birth and a city of origin.

The relational schema consists of the following tables.

Work (CodO, Name, Category, City, Country, Author)

Author (CodA, Name, Surname, Year, City)

- Write a SQL script to create the tables described, indicating attributes and keys of each table.
- Write a SQL query to view all the artworks placed in Rome of each author born between 1590 and 1600. The query must return the surnames of the authors and the names of the works with their category. The results must be presented in alphabetical order of author.
- Write a transaction to insert a new author and one of his works in the database.

2. Design a web application for online consultation of the DB developed in the previous year.

The access form has two text boxes to enter the years within which the author's year of birth must be included and a drop-down menu to select the city in which to search for the works. Once these fields have been set, the application must display all the author's works present in each city of the requested country, sorted by the author's surname, in a table like the one shown in the figure. The rows in the table must have a different color (at your choice) depending on the category of the work (painting, sculpture or architecture).

The image shows two overlapping browser windows. The background window displays search results for artworks in Rome from authors born between 1200 and 1500. The foreground window shows a search form titled 'Insert birth date of the author and interested city' with input fields for birth date and a dropdown for city.

Artworks in Rome from authors born between 1200 and 1500

Surname	Name	Category	Name
Da Vinci	Gioconda	painting	Gioconda
Da Vinci	Uomo Vitruviano	painting	Uomo Vitruviano
Da Vinci	Vergine delle Rocce	painting	Vergine delle Rocce

Insert birth date of the author and interested city

Birth date from to

City