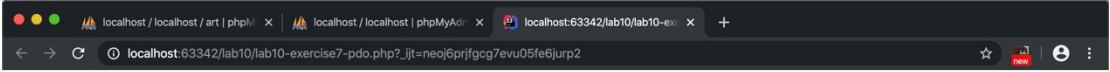
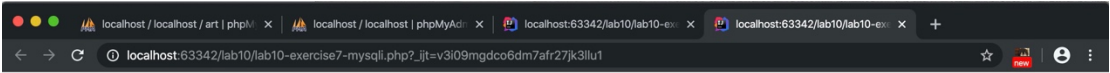


Exercise7



Database Tester (PDO)

- 129 – Alma-Tadema
- 41 – Balla
- 135 – Bellini
- 138 – Böcklin
- 117 – Bosch
- 95 – Botticelli
- 107 – Boucher
- 140 – Bouguereau
- 120 – Bronzino
- 118 – Bruegel the Elder
- 131 – Canaletto
- 101 – Caravaggio
- 16 – Cassatt
- 21 – Cezanne
- 64 – Chagall
- 108 – Chardin
- 10 – Courbet
- 97 – da Vinci
- 45 – Dali
- 5 – David
- 15 – Degas
- 7 – Delacroix
- 32 – Derain
- 116 – Dürer
- 103 – Dyck
- 93 – Francesca
- 137 – Friedrich
- 141 – Gaddi
- 110 – Gainsborough
- 18 – Gauguin
- 111 – Gentileschi
- 114 – Giotto



Database Tester (mysqli)

- Genre
- ✓ Academic Art
 - Baroque
 - Cubism
 - Dutch Golden Age
 - Expressionism
 - Fauvism
 - High Renaissance
 - Impressionism
 - International Gothic
 - Mannerism
 - Neoclassicism
 - Northern Renaissance
 - Post-Impressionism
 - Realism
 - Renaissance
 - Rococo
 - Romanticism
 - Surrealism
 - Symbolism

代码解释：

lab10-exercise7-pdo.php

采用了 PDO 的方式连接 MySQL，首先创建 PDO 对象，然后设置 PDO 错误模式为异常，\$sql 为数据库检索对象（字符串），当\$result 为匹配结果，用 while 语句，当匹配到时，将结果返回给\$row，然后打印\$row 的相关信息；最后关闭连接

lab10-exercise7-mysqli.php

使用 MySQLi 进行连接，首先创建连接，然后与上述方法相同，同样是通过匹配检索对象（\$spl），通过使用循环，匹配到后打印\$row 的相关信息，最后关闭连接。

Exercise8:

localhost / localhost / x localhost / localhost / x localhost:63342/lab10-exercise8.php?id=5

User Input

Alma-Tadema

Balla

Bellini

Böcklin

Bosch

Botticelli

Boucher

Bouguereau

Bronzino

Bruegel the Elder

Canaletto

Caravaggio

Cassatt

Cezanne

Chagall

Chardin

Courbet

da Vinci

Dali

David

Degas

Delacroix

Derain

Dürer

Dyck


Francesca

Friedrich

Gaddi


Gainsborough

Gauguin




The Oath of the Horatii

Oath of the Horatii (French: *Le Serment des Horaces*), is a work by French artist Jacques-Louis David painted in 1784. It depicts a scene from a Roman legend about a dispute between two warring cities; Rome and Alba Longa, when three brothers from a Roman family, the Horatii, agree to end the war by fighting three brothers from an Alba Longa family, the Curiatii.




The Death of Socrates

The painting focuses on a classical subject like many of his works from that decade, in this case the story of the execution of Socrates as told by Plato in his *Phaedo*.



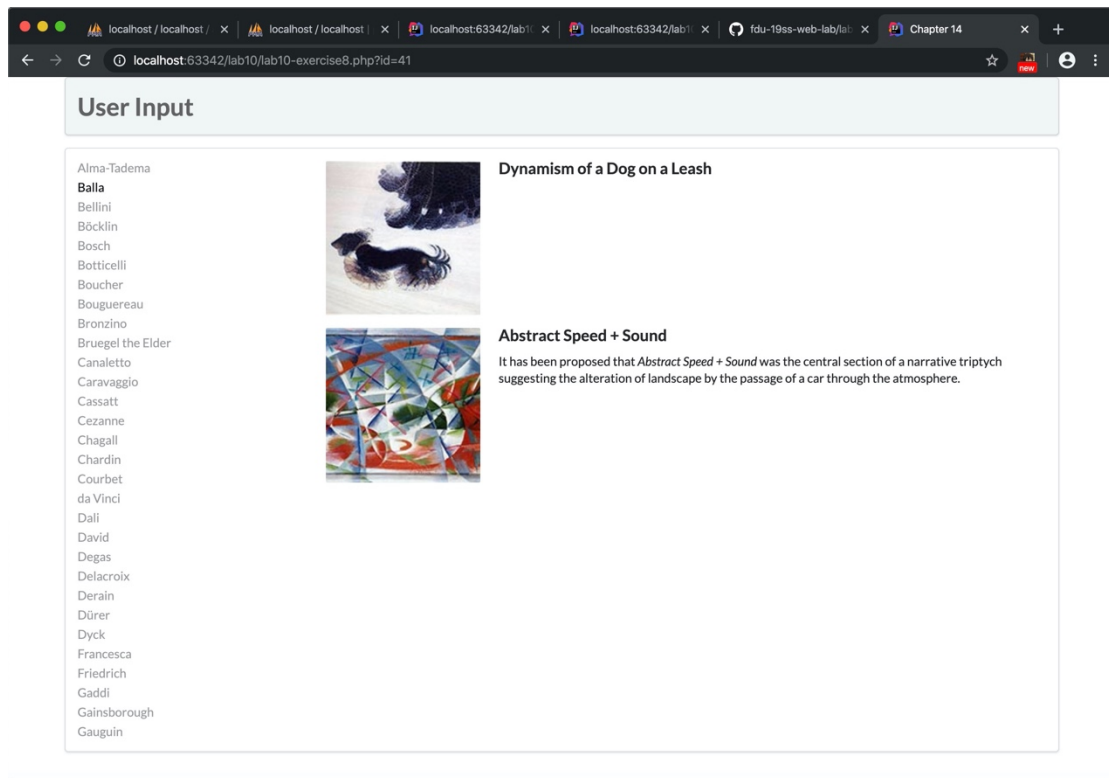
Napoleon Crossing the Alps

Napoleon Crossing the Alps (also known as *Napoleon at the Saint-Bernard Pass* or *Bonaparte Crossing the Alps*) is the title given to the five versions of an oil on canvas equestrian portrait of Napoleon Bonaparte painted by the French artist Jacques-Louis David between 1801 and 1805.



The Coronation of Napoleon

The Coronation of Napoleon (French: *Le Sacre de Napoléon*) is a painting completed in 1807 by Jacques-Louis David, the official painter of Napoleon. The painting has imposing dimensions, as it is almost ten metres wide by approximately six metres tall.



代码解释：

outputPaintings 方法与 outputSinglePainting 方法：

outputPaintings 方法与上述使用 PDO 思路相同，先于数据库创建连接，然后根据匹配语句进行匹配，然后打印获取的对象，打印对象使 outputSinglePainting 方法。

Exercise9:

使用预处理语句：

预处理语句工作原理：

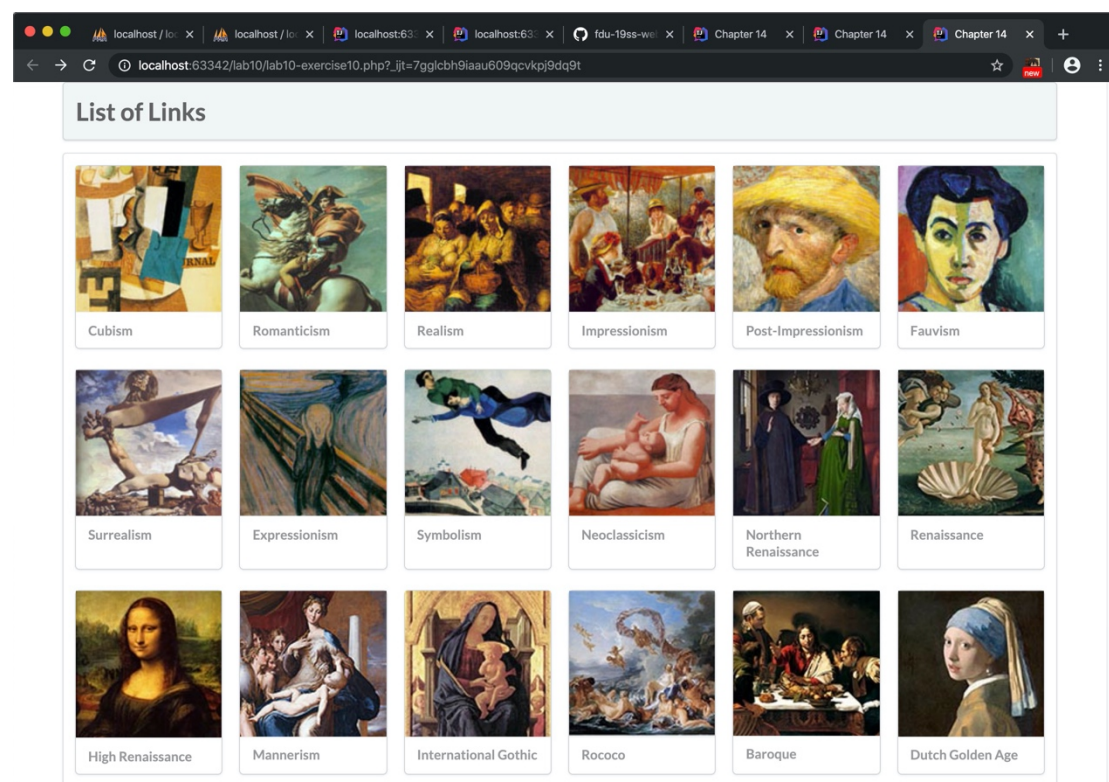
1. 预处理：创建 SQL 语句模版并发送到数据库。预留的值使用参数 “？” 标记；
2. 数据库解析，编译，对 SQL 语句模版进行查询优化，并存储结果不输出；

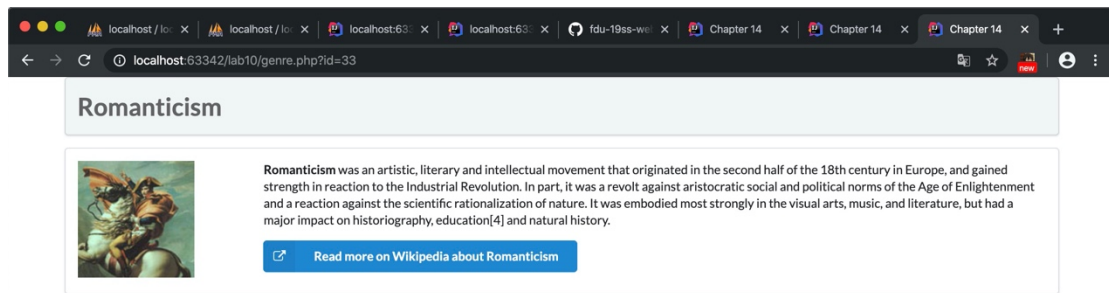
3. 执行：最后，将应用绑定的值传递给参数（“？”标记），数据库执行语句。

相对于直接执行 SQL 语句，预处理语句有两个主要的优点：

- 预处理语句大大减少了分析时间，制作了一次查询（虽然语句多次执行）；
- 绑定的参数减少了服务器宽带，只需要发送查询的参数，而不是整个语句；
- 预处理语句针对 SQL 注入是非常有用的，因为参数值发送后使用不同的协议，保证了数据的合法性。

Exercise10:





代码解释：

创建 PDO 的对象连接到数据库，然后进行检索，将获取到的 Genres 的内容，用 outputSingleGenre 方法打印出来，打印的为 html 内容，constructGenreLike 方法为返回所需要的 a 标签。