

M MySQL test

M1 Which of these is not MySQL storage engine?

- A. MyISAM
- B. InnoDB
- C. XFC
- D. ARCHIVE

M2 Which MySQL data type is represented by YYYY-MM-DD HH:MM:SS format?

- A. TIMESTAMP
- B. INT
- C. TIME
- D. DATETIME

M3 Which command would you use to connect to MySQL from a remote computer?

- A. `mysql -u UserName -p`
- B. `mysql -h ServerName -u UserName -p`
- C. `mysql -h -u -p`
- D. `mysql -h ServerName -u UserName -p Password`

M4 Which MySQL query would you use to modify data in the database?

- A. EDIT
- B. MODIFY
- C. UPDATE
- D. CHANGE

M5 Which MySQL query you would not use to remove data from database?

- A. DROP
- B. DELETE
- C. REMOVE
- D. TRUNCATE

M6 Which MySQL query would you use to add new data to the database?

- A. INSERT RECORD
- B. ADD NEW
- C. RECORD NEW
- D. INSERT INTO

M7

Table: books

| id | author (VARCHAR) | title (VARCHAR) | price_eur (TINYINT) |
|----|--------------------------|-----------------------------------|------------------------|
| 1 | Haruki Murakami | Išgirsk vėjo dainą | 12 |
| 2 | Antoine de Saint-Exupery | Mažasis Princas | 6 |
| 3 | Haruki Murakami | 1973-ųjų kiniškas biliardas | 9 |
| 4 | Antoine de Saint-Exupery | Karo lakūnas. Pietų paštas (2014) | 14 |
| 5 | Adolfas Šapoka | Lietuvos istorija | 24 |
| 6 | George Orwell | Gyvulių ūkis | 14 |

M7.1 Write MySQL query to get all the books priced 14 eur and more:

M7.2 Write MySQL query to get all the books whose author's name starts with letter A:

M7.3 Write MySQL query which would change the price of the book „Mažasis Princas“ to 5 eur.

M7.4 Write MySQL query which would add a new book to the table. Author name is Herman Hesse. Title of the book is „Steppenwolf“. The price of the book is 12 eur.

M7.5 Write MySQL query which would delete all records with price of 14 eur.

M7.6 How many rows will return query *SELECT COUNT(*) FROM books WHERE id > 4?*

M8

Table: books

| id | author (VARCHAR) | title (VARCHAR) | price_eur (TINYINT) |
|---------|--------------------------|------------------------------|------------------------|
| 1 | Haruki Murakami | Išgirsk vėjo dainą | 12 |
| 2 | Antoine de Saint-Exupery | Mažasis Princas | 6 |
| 3 | Haruki Murakami | 1973-iųjų kiniškas biliardas | 9 |
| ... | ... | ... | ... |
| 5541254 | Adolfas Šapoka | Lietuvos istorija | 24 |
| 5541255 | George Orwell | Gyvulių ūkis | 14 |

M8.1 Which index would you use to speed up the SELECT query by the price_eur field?

- A. INDEX
- B. NULL
- C. FULL
- D. UNIQUE
- E. FULLTEXT

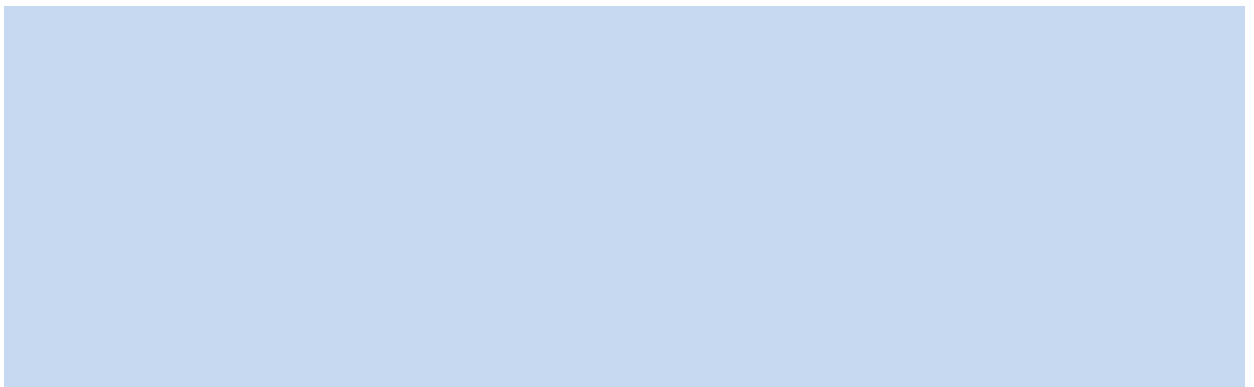
M8.2 Which index would you use to ensure uniqueness on *author*, *title* fields?

- A. DUPLICATE
- B. UNIQUE
- C. UNDUPLICATE
- D. INDEX

M9 Propose the structure for the data below. (queries are not necessary):

- Performer (name, surname, date of birth, country (there will be 200 countries in the database), music style (available styles are popmusic and rock only))
- Album (title, performer, release date, number of tracks in the album, price).

There will be 10 million albums in the database. We will need fast performer search by country and fast album search by performer. Album and performer couple in album table should be unique. On the event of deletion of performer, his album data should also be removed not writing separate query.



P PHP test

P1 PHP code is written:

- A. `<script>Mano kudas</script>`
- B. `<php>Mano kudas</php>`
- C. `<?php>Mano kudas<?>`
- D. `<?php Mano kudas ?>`

P2 Write PHP code, which would show the text „Hello, brother“:



P3 Which symbol is the beginning of PHP variable?

- A. No special symbol
- B. #
- C. &
- D. \$

P4 How would you get the data from POST method?

- A. `get_post()`
- B. `get.post`
- C. `$_POST`
- D. `$POST`

P5 How would you create PHP function?

- A. `create function myfunction()`
- B. `function myfunction ()`
- C. `new myfunction()`
- D. `myfunction()`

P6 Which PHP variable would you use to know the IP address of the visitor?

- A. `$_SERVER`
- B. `$SERVER`
- C. `$INFO`
- D. `$getserver`

P7 Which operator should be chosen to ensure if the two variables are equal and of the same type?

- A. ==
- B. ===
- C. !=
- D. =

P8 Write code which would calculate number of symbols in string *Stelmužės qžuolas*:

P9 Write code which would create an array *fruits* with the elements *apple, banana, pineapple*:

P10 Write the code which would count the number of the element in an array *books*:

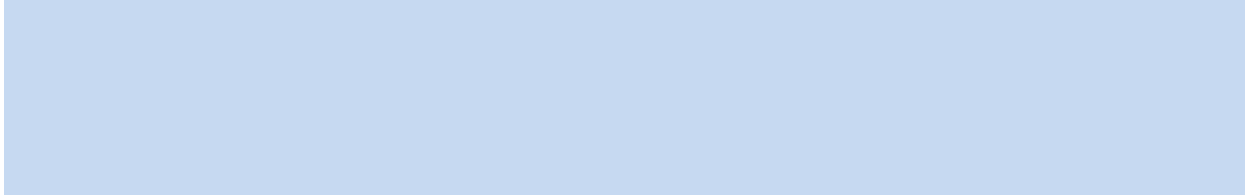
P11 Your script receives a parameter *age* by POST method. Write the code which would show text „Adult“ when the parameter is bigger than 18 and „Child“ when the parameter is equal or lesser than 18.

P12 Write the code which would add text „London“ to the file named *history.txt*:

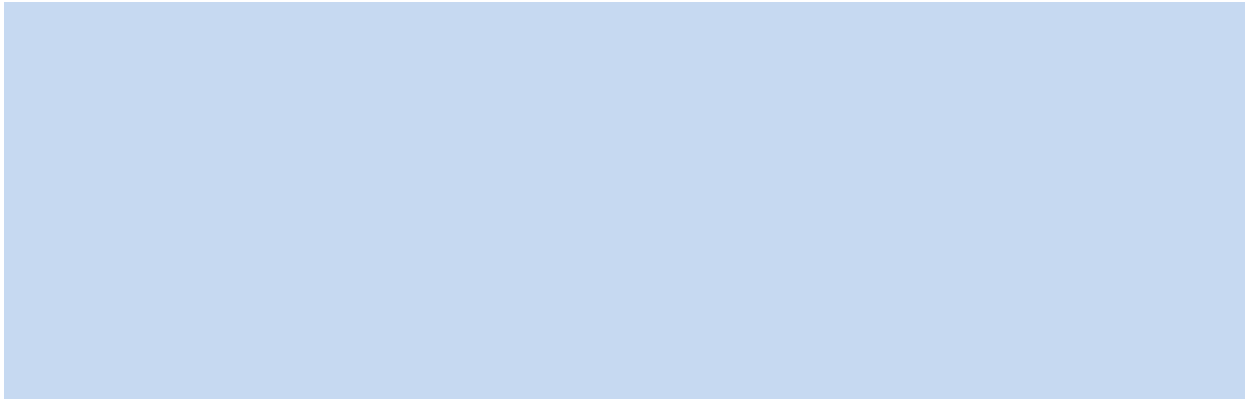
P13 We have bi-dimensional array *book*

```
Array ( [0] => Array ( [0] => Haruki Murakami [1] => Norwegian Wood ) [1] => Array ( [0] => Haruki Murakami [1] => A Wild Sheep Chase ) )
```

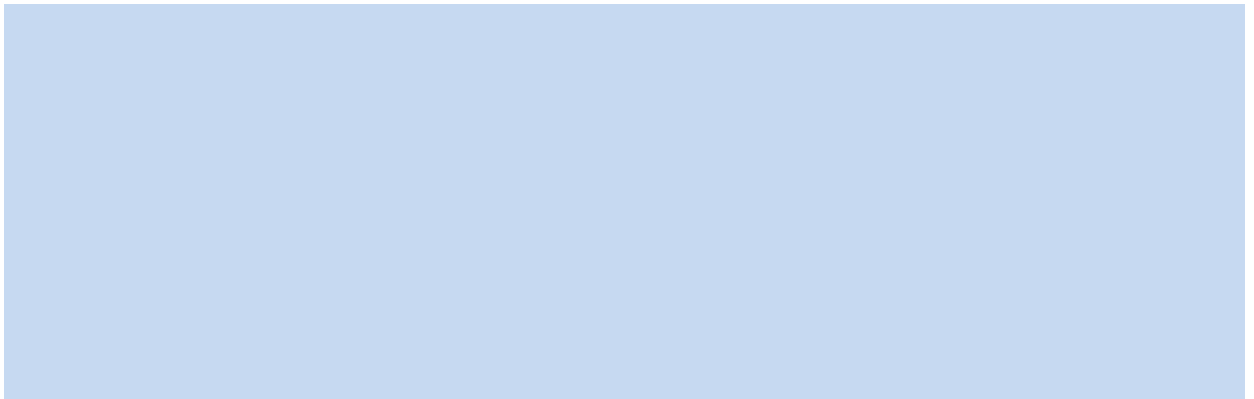
Write the code which would display *A Wild Sheep Chase* from the array:



P14 Write function which would count the area of the rectangle:



P15 Write the function which would convert euros to dollars. 1 Euro equals 1.25 dollars.



P16 Write function which would change all the words apple to banana in the text:



H HTML ir CSS test

H1 Write the code of the HTML form. The form should have fields: name, email, password, selection of city from the list: London, New York, Paris.

H2 Write HTML code (only from `<body>` to `</body>` tag) and CSS code, which would display such flag.



Flag colors: #FDB913; #006A44; #C1272D. Height: 60 pixel. Width: 150 pixel. Font: Arial.

WordPress test

W1 In which „WordPress“ file you would write database login data?

- A. config.php
- B. wp-config.php
- C. wp.conf
- D. wordpress.conf

W2 In which folder „WordPress“ themes are being stored?

- A. wp-admin/themes
- B. wp-themes
- C. wp-includes/themes
- D. wp-content/themes

W3 Which database table is not available in „WordPress“?

- A. wp_posts
- B. wp_content
- C. wp_users
- D. wp_options

W4 Which function is not being used in „WordPress“ cycle (*loop*)?

- A. the_content()
- B. the_title()
- C. the_entry()
- D. the_time()

W5 How do you name the file of the page which has a slug 'aboutus'?

- A. page_aboutus.php
- B. aboutus.php
- C. post.aboutus.php
- D. page-aboutus.php

W6 In which file would you store name of the theme and name of the author?

- A. theme.php
- B. style.css
- C. functions.php
- D. config.php

W7 In which file would you code „WordPress“ cycle (*loop*)?:

- A. single.php
- B. data.php
- C. loops.php
- D. loop.config

W8 Which files are mandatory for „WordPress“ theme to work?:

- A. index.php, functions.php
- B. index.php, functions.php, style.css
- C. index.php, config.php, style.css
- D. index.php, style.css

W9 How would you specify path to the file in the „WordPress“ theme if you would like that on the case of server change you would not need to modify this path??

- A. Would specify absolute path to the file with include
- B. Would use „WordPress“ `get_stylesheet_directory()` function
- C. Would use „WordPress“ database variable, which is stored in `wp_config` table
- D. Would use „WordPress“ constant `WP_MY_THEME_DIRECTORY`

W10 Which user type (*role*) is not available on „WordPress“?

- A. Administrator
- B. Subscriber
- C. Editor
- D. System

L Laravel test

L1 Which file is the primary point of all Laravel queries?

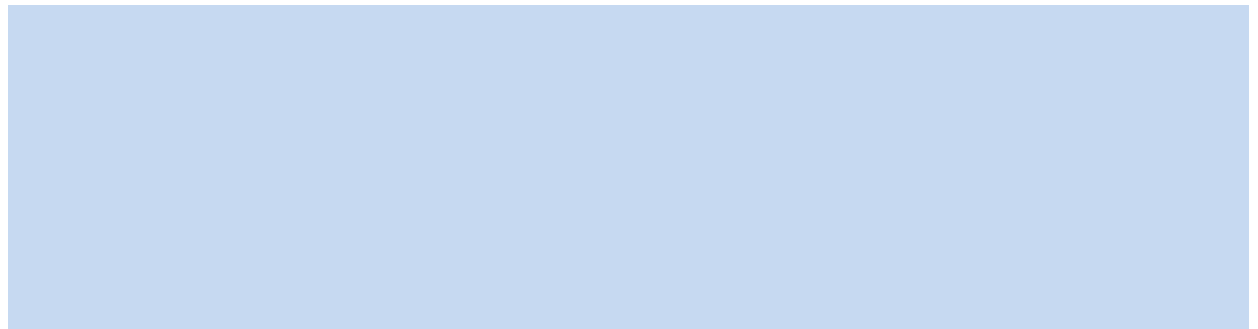
- A. /index.php
- B. /public/index.php
- C. /app/index.php
- D. /resources/index.php

L2 In which Laravel folder would you start searching for controllers?

- A. /resources
- B. /app
- C. /storage
- D. /vendor

L3 Rewrite this code in Laravel Blade language:

```
if($status > 0) :  
    echo "Good";  
else :  
    echo "Bad";  
endif;
```



L4 How Laravel command line interface is called?

- A. Facades
- B. Commands
- C. Bootstrap
- D. Artisan

L5 Which application helps to install Laravel dependencies?

- A. Composer
- B. Eloquent
- C. Middleware
- D. Updater