

# Daily Assessment format

Date: 13/06/2020

Course: MySQL

Topic: mail with PHP

GitHub

repository: jyoti-concepts

Name: Jyoti S. Daware

Uen: 4AL19EC037

## Forenoon session details

### Report

mail

(PHP4, PHP5, PHP7)

mail-send mail

### Description

mail(string \$to, string \$subject, string \$msg [, mixed \$additional\_headers [, string \$additional\_parameters]])  
bool

Sends an email,

parameters to receiver, or receivers of the email:

The formatting of this string must comply with RFC2822. Some examples are

- user@example.com
- user@example.com, anotheruser@example.com
- user <user@example.com>
- user <user@example.com>, Another user <anotheruser@example.com>

### additional\_headers(optional)

→ string or array to be inserted at the end of the mail header

→ This is typically used to add extra headers (from, cc, and bcc) multiple extra headers should be separated with a CRLF (\r\n). If outside data are used to compose this header, the data should be sanitized so that no unwanted headers could be injected.

→ If an array is passed, its keys are the header names & its values are the respective header values.

→ Before PHP 5.4.42 & 5.5.27, respectively, additional headers didn't have mail header injection protection. Therefore users must make sure specified headers are safe & contains headers only i.e. never blast mail body by putting multiple newlines.

→ When sending mail, the mail must contain a from header. This can be set with the additional\_headers parameter, or a default can be set in php.ini.

→ Failing to do this will result in an error msg similar to warning: mail(): "sendmail\_from" not set in php.ini or custom "from" header missing. The from header sets also return path under windows.

→ If msgs are not received, try using a LF (\n) only. Some unix mail transfer agents (most notably qmail) replace LF by CRLF automatically (which leads to doubling of CRLF is used). This should be a last resort as it doesn't comply with RFC 2822.

additional\_parameters (optional)  
→ The additional\_parameters parameter can be used to pass additional flags as command line option to the program configured to be used when sending mail, as defined by the sendmail\_path configuration setting. For ex: this can be used to set the envelope sender address when using send mail with the -f sendmail send mail option.

→ This parameter is escaped by `escapeshellcmd()` internally to prevent command execution. `escapeshellcmd()` prevents command execution, but allows to add additional to avoid adding unwanted parameters to the shell command.



→ Since `escapeshellcmd()` is applied automatically, some characters that are allowed as email addresses by internet RFCs cannot be used. `mail()` cannot allow such characters, so in programs where the use of such characters is required alternative means of sending emails (such as using a framework or a library) is recommended.

→ The user that the webserver runs as should be added as a trusted user to the send mail configuration to prevent a 'x-warming' header from being added to the message when the envelope sender is set using this method.

Returns values

→ Returns true if the mail was successfully accepted for delivery, FALSE otherwise.

→ It is important to note that just because the mail was accepted for delivery, it does not mean the mail will actually reach the intended destination.