

PHP-MySQL Interview Question

Last few days I have been working to compile a question and answer set for PHP-MySQL interview questions. There are roughly 150 questions and i will be adding more as days to come. These questions and answers are compiled from different online resources. I am planning to make it a PDF version so that people download it and go through it offline. I hope i will be able to finish it soon.

NB: If you want to add any question, please add it to the comments section. I want to make it a big repository.

Here is the first set of 80 Questions and answer.

Q:1 What are the differences between Get and post methods in form submitting. give the case where we can use get and we can use post methods?

A:1

When to use GET or POST

The HTML 2.0 specification says, in section Form Submission (and the HTML 4.0 specification repeats this with minor stylistic changes):

→ If the processing of a form is idempotent (i.e. it has no lasting observable effect on the state of the world), then the form method should be GET. Many database searches have no visible side-effects and make ideal applications of query forms.

→ If the service associated with the processing of a form has side effects (for example, modification of a database or subscription to a service), the method should be POST.

How the form data is transmitted?

quotation from the HTML 4.0 specification

→ If the method is “get” – -, the user agent takes the value of action, appends a ? to it, then appends the form data set, encoded using the application/x-www-form-urlencoded content type. The user agent then traverses the link to this URI. In this scenario, form data are restricted to ASCII codes.

→ If the method is “post” –, the user agent conducts an HTTP post transaction using the value of the action attribute and a message created according to the content type specified by the enctype attribute.

[Quote from CGI FAQ](#)

Firstly, the the HTTP protocol specifies differing usages for the two methods. GET requests should always be idempotent on the server. This means that whereas one GET request might (rarely) change some state on the Server, two or more identical requests will have no further effect.

This is a theoretical point which is also good advice in practice. If a user hits “reload” on his/her browser, an identical request will be sent to the server, potentially resulting in two identical database or guestbook entries, counter increments, etc. Browsers may reload a GET URL automatically, particularly if cacheing is disabled (as is usually the case with CGI output), but will typically prompt the user before re-submitting a POST request. This means you’re far less likely to get inadvertently-repeated entries from POST.

GET is (in theory) the preferred method for idempotent operations, such as querying a database, though it matters little if you’re using a form. There is a further practical constraint that many systems have built-in limits to the length of a GET request they can handle: when the total size of a request (URL+params) approaches or exceeds 1Kb, you are well-advised to use POST in any case.

I would prefer POST when I don’t want the status to be change when user resubmits. And GET when it does not matter.

Q:2 Who is the father of PHP and explain the changes in PHP versions?

A:2 Rasmus Lerdorf is known as the father of PHP. PHP/FI 2.0 is an early and no longer supported version of PHP. PHP 3 is the successor to PHP/FI 2.0 and is a lot nicer. PHP 4 is the current generation of PHP, which uses the Zend engine under the hood. PHP 5 uses Zend engine 2 which, among other things, offers many additional OOP features.

Q:3 How can we submit a form without a submit button?

A:3 The main idea behind this is to use Java script submit() function in order to submit the form without explicitly clicking any submit button. You can attach the document.formname.submit() method to onclick, onchange events of different inputs and perform the form submission. you can even built a timer function where you can automatically submit the form after xx seconds once the loading is done (can be seen in online test sites).

Q:4 In how many ways we can retrieve the data in the result set of MySQL using PHP?

A:4 You can do it by 4 Ways
1. mysql_fetch_row.
2. mysql_fetch_array
3. mysql_fetch_object
4. mysql_fetch_assoc

Q:5 What is the difference between mysql_fetch_object and mysql_fetch_array?

A:5 mysql_fetch_object() is similar to mysql_fetch_array(), with one difference – an object is returned, instead of an array. Indirectly, that means that you can only access the data by the field names, and not by their offsets (numbers are illegal property names).

Q:6 What is the difference between \$message and \$\$message?

A:6 It is a classic example of PHP's variable variables. take the following example.`$message = "Mizan";$$message = "is a moderator of PHPXperts.";` \$message is a simple PHP variable that we are used to. But the \$\$message is not a very familiar face. It creates a variable name \$mizan with the value "is a moderator of PHPXperts." assigned. break it like this`${$message} => $mizan`Sometimes it is convenient to be able to have variable variable names. That is, a variable name which can be set and used dynamically.

Q:7 How can we extract string 'abc.com ' from a string 'http://info@abc.com' using regular expression of PHP?

A:7 `preg_match("/^http:\\\\.+@(.+)$/", 'http://info@abc.com');$found);
echo $found[1];`

Q:8 How can we create a database using PHP and MySQL?

A:8 We can create MySQL database with the use of `mysql_create_db("Database Name")`

Q:9 What are the differences between require and include, include_once and require_once?

A:9 The **include()** statement includes and evaluates the specified file. The documentation below also applies to **require()**. The two constructs are identical in every way except how they handle failure. **include()** produces a Warning while **require()** results in a Fatal Error. In other words, use **require()** if you want a missing file to halt processing of the page. **include()** does not behave this way, the script will continue regardless.

The **include_once()** statement includes and evaluates the specified file during the execution of the script. This is a behavior similar

to the **include()** statement, with the only difference being that if the code from a file has already been included, it will not be included again. As the name suggests, it will be included just once. **include_once()** should be used in cases where the same file might be included and evaluated more than once during a particular execution of a script, and you want to be sure that it is included exactly once to avoid problems with function redefinitions, variable value reassessments, etc.

require_once()

should be used in cases where the same file might be included and evaluated more than once during a particular execution of a script, and you want to be sure that it is included exactly once to avoid problems with function redefinitions, variable value reassessments, etc.

Q:10 Can we use include ("abc.PHP") two times in a PHP page "makeit.PHP"?

A:10 Yes we can use include() more than one time in any page though it is not a very good practice.

Q:11 What are the different tables present in MySQL, which type of table is generated when we are creating a table in the following syntax: create table employee (eno int(2),ename varchar(10)) ?

A:11 Total 5 types of tables we can create

1. MyISAM
2. Heap
3. Merge
4. INNO DB

5. ISAM

MyISAM is the default storage engine as of MySQL 3.23 and as a result if we do not specify the table name explicitly it will be assigned to the default engine.

Q:12 Functions in IMAP, POP3 AND LDAP?

A:12 You can find these specific information in PHP Manual.

Q:13 How can I execute a PHP script using command line?

A:13 As of version 4.3.0, PHP supports a new SAPI type (Server Application Programming Interface) named CLI which means Command Line Interface. Just run the PHP CLI (Command Line Interface) program and provide the PHP script file name as the command line argument. For example, “php myScript.php”, assuming “php” is the command to invoke the CLI program.

Be aware that if your PHP script was written for the Web CGI interface, it may not execute properly in command line environment.

Q:14 Suppose your Zend engine supports the mode <? ?> Then how can you configure your PHP Zend engine to support <?PHP ?> mode ?

A:14 In php.ini file:

set

short_open_tag=on

to make PHP support

Q:15 Shopping cart online validation i.e. how can we configure Paypal, etc.?

A:15 We can find the detail documentation about different paypal integration process at the following site

PayPal PHP

SDK : <http://www.paypaldev.org>

Q:16 What is meant by nl2br()?

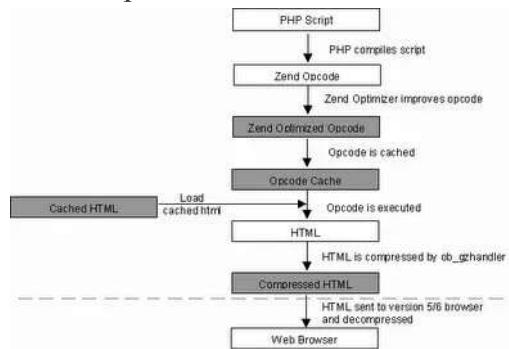
A:16 Inserts HTML line breaks (
) before all newlines in a string
 string nl2br (string); Returns string with " inserted before all
 newlines. For example: echo nl2br("god bless\n you") will output "god
 bless
 you" to your browser.

Q:17 Draw the architecture of Zend engine?

A:17 The Zend Engine is the internal compiler and runtime engine used by PHP4. Developed by Zeev Suraski and Andi Gutmans, the Zend Engine is an abbreviation of their names. In the early days of PHP4, it worked as follows:



The PHP script was loaded by the Zend Engine and compiled into Zend opcode. Opcodes, short for operation codes, are low level binary instructions. Then the opcode was executed and the HTML generated sent to the client. The opcode was flushed from memory after execution. Today, there are a multitude of products and techniques to help you speed up this process. In the following diagram, we show the how modern PHP scripts work; all the shaded boxes are optional.



PHP Scripts are loaded into memory and compiled into Zend opcodes.

Q:18 What are the current versions of apache, PHP, and MySQL?

A:18 As of February, 2007 the current versions are PHP: php5.2.1
 MySQL: MySQL 5.2
 Apache: Apache 2.2.4 Note: visit www.php.net,

<http://dev.mysql.com/downloads/mysql/>,

www.apache.org to get current versions.

Q:19 What are the reasons for selecting lamp (Linux, apache, MySQL, PHP) instead of combination of other software programs, servers and operating systems?

A:19 All of those are open source resource. Security of Linux is very more than windows. Apache is a better server than IIS both in functionality and security. MySQL is world most popular open source database. PHP is more faster than asp or any other scripting language.

Q:20 How can we encrypt and decrypt a data present in a MySQL table using MySQL?

A:20 AES_ENCRYPT () and AES_DECRYPT ()

Q:21 How can we encrypt the username and password using PHP?

A:21 The functions in this section perform encryption and decryption, and compression and uncompression:

encryption	decryption
AES_ENCRYPT()	AES_DECRYPT()
ENCODE()	DECODE()
DES_ENCRYPT()	DES_DECRYPT()
ENCRYPT()	Not available
MD5()	Not available
OLD_PASSWORD()	Not available
PASSWORD()	Not available
SHA() or SHA1()	Not available
Not available	UNCOMPRESSED_LENGTH()

Q:22 What are the features and advantages of object-oriented programming?

A:22 One of the main advantages of OO programming is its ease of modification; objects can easily be modified and added to a system thereby reducing maintenance costs. OO programming is also considered to be better at modeling the real world than is procedural programming. It allows for more complicated and flexible interactions. OO systems are also easier for non-technical personnel to understand and easier for them to participate in the maintenance and enhancement of a system because it appeals to natural human cognition patterns.

For some systems, an OO approach can speed development time since many objects are standard across systems and can be reused. Components that manage dates, shipping, shopping carts, etc. can be purchased and easily modified for a specific system

Q:23 What are the differences between procedure-oriented languages and object-oriented languages?

A:23 Traditional programming has the following characteristics: Functions are written sequentially, so that a change in programming can affect any code that follows it.

If a function is used multiple times in a system (i.e., a piece of code that manages the date), it is often simply cut and pasted into each program (i.e., a change log, order function, fulfillment system, etc).

If a date change is needed (i.e., Y2K when the code needed to be changed to handle four numerical digits instead of two), all these pieces of code must be found, modified, and tested.

Code (sequences of computer instructions) and data (information on which the instructions operate on) are kept separate. Multiple sets of code can access and modify one set of data. One set of code may rely on data in multiple places. Multiple sets of code and data are required to work together. Changes made to any of the code sets and data sets can cause problems throughout the system. Object-Oriented programming takes a radically different approach: Code and data are merged into one indivisible item – an object (the

term “component” has also been used to describe an object.) An object is an abstraction of a set of real-world things (for example, an object may be created around “date”) The object would contain all information and functionality for that thing (A date object it may contain labels like January, February, Tuesday, Wednesday. It may contain functionality that manages leap years, determines if it

is a business day or a holiday, etc., See Fig. 1). Ideally, information about a particular thing should reside in only one place in a system. The information within an object is encapsulated (or hidden) from the rest of the system.

A system is composed of multiple objects (i.e., date function, reports, order processing, etc., See Fig 2). When one object needs information from another object, a request is sent asking for specific information. (for example, a report object may need to know what today's date is and will send a request to the date object) These requests are called messages and each object has an interface that manages messages.

OO programming languages include features such as "class", "instance", "inheritance", and "polymorphism" that increase the power and flexibility of an object.

Q:24 What is the use of friend function?

A:24 Sometimes a function is best shared among a number of different classes. Such functions can be declared either as member functions of one class or as global functions. In either case they can be set to be friends of other classes, by using a friend specifier in the class that is admitting them. Such functions can use all attributes of the class which names them as a friend, as if they were themselves members of that class.

A friend declaration is essentially a prototype for a member function, but instead of requiring an implementation with the name of that class attached by the double colon syntax, a global function or member function of another class provides the match.

Q:25 What are the differences between public, private, protected, static, transient, final and volatile?

A:25 Public: Public declared items can be accessed everywhere.

Protected: Protected limits access to inherited and parent classes (and to the class that defines the item).

Private: Private limits visibility only to the class that defines the item.

Static: A static variable exists only in a local function scope, but it does not lose its value when program execution leaves this scope.

Final: Final keyword prevents child classes from overriding a

method by prefixing the definition with final. If the class itself is being defined final then it cannot be extended.

transient: A transient variable is a variable that may not be serialized.

volatile: a variable that might be concurrently modified by multiple threads should be declared volatile. Variables declared to be volatile will not be optimized by the compiler because their value can change at any time.

Q:26 What are the different types of errors in PHP?

A:26 Three are three types of errors:1. Notices: These are trivial, non-critical errors that PHP encounters while executing a script – for example, accessing a variable that has not yet been defined. By default, such errors are not displayed to the user at all – although, as you will see, you can change this default behavior.2. Warnings: These are more serious errors – for example, attempting to include() a file which does not exist. By default, these errors are displayed to the user, but they do not result in script termination.3. Fatal errors: These are critical errors – for example, instantiating an object of a non-existent class, or calling a non-existent function. These errors cause the immediate termination of the script, and PHP's default behavior is to display them to the user when they take place.

Q:27 What is the functionality of the function strstr and stristr?

A:27 strstr:

Returns part of *haystack* string from the first occurrence of *needle* to the end of *haystack*. If *needle* is not found, returns FALSE.

If *needle* is not a string, it is converted to an integer and applied as the ordinal value of a character.

This function is case-sensitive. For case-insensitive searches, use **stristr()**.

Q:28 What are the differences between PHP 3 and PHP 4 and PHP 5?

A:28 Please read the release notes at
<http://www.php.net>.

Q:29 How can we convert asp pages to PHP pages?

A:29 there are lots of tools available for asp to PHP conversion. you can search Google for that. the best one is available at[http://asp2php.naken.cc./](http://asp2php.naken.cc/)

Q:30 What is the functionality of the function htmlentities?

A:30 Convert all applicable characters to HTML entities
This function is identical to htmlspecialchars() in all ways, except with htmlentities(), all characters which have HTML character entity equivalents are translated into these entities.

Q:31 How can we get second of the current time using date function?

A:31 \$second = date("s");

Q:32 How can we convert the time zones using PHP?

A:32 By using `date_default_timezone_get` and `date_default_timezone_set` function on PHP 5.1.0

```
<?php
// Discover what 8am in Tokyo relates to on the East Coast of the US

// Set the default timezone to Tokyo time:
date_default_timezone_set('Asia/Tokyo');

// Now generate the timestamp for that particular timezone, on Jan 1st, 2000
$stamp = mktime(8, 0, 0, 1, 1, 2000);

// Now set the timezone back to US/Eastern
```

```

date_default_timezone_set('US/Eastern');

// Output the date in a standard format (RFC1123), this will print:
// Fri, 31 Dec 1999 18:00:00 EST
echo '<p>', date(DATE_RFC1123, $stamp), '</p>';?>

```

Q:33 What is meant by urlencode and urldecode?

A:33 URLencode returns a string in which all non-alphanumeric characters except -_. have been replaced with a percent (%) sign followed by two hex digits and spaces encoded as plus (+) signs. It is encoded the same way that the posted data from a WWW form is encoded, that is the same way as in application/x-www-form-urlencoded media type.

urldecode decodes any %## encoding in the given string.

Q:34 What is the difference between the functions unlink and unset?

A:34 unlink() deletes the given file from the file system.
unset() makes a variable undefined.

Q:35 How can we register the variables into a session?

A:35 \$_SESSION['name'] = "Mizan";

Q:36 How can we get the properties (size, type, width, height) of an image using PHP image functions?

A:36 To know the Image type use exif_imagetype () function
To know the Image size use getimagesize () function
To know the image width use imagesx () function
To know the image height use imagesy() function t

Q:37 How can we get the browser properties using PHP?

A:37 By using
\$_SERVER['HTTP_USER_AGENT']

variable.

Q:38 What is the maximum size of a file that can be uploaded using PHP and how can we change this?

A:38 By default the maximum size is 2MB. and we can change the following setup at `php.iniupload_max_filesize = 2M`

Q:39 How can we increase the execution time of a PHP script?

A:39 by changing the following setup at `php.iniexec_time = 30`
; Maximum execution time of each script, in seconds

Q:40 How can we take a backup of a MySQL table and how can we restore it. ?

A:40 To backup: `BACKUP TABLE tbl_name[,tbl_name...] TO '/path/to/backup/directory'`
`RESTORE TABLE tbl_name[,tbl_name...] FROM '/path/to/backup/directory'`
mysqldump: Dumping Table Structure and DataUtility to dump a database or a collection of database for backup or for transferring the data to another SQL server (not necessarily a MySQL server). The dump will contain SQL statements to create the table and/or populate the table.

`-t, --no-create-info`

Don't write table creation information (the CREATE TABLE statement).

`-d, --no-data`

Don't write any row information for the table. This is very useful if you just want to get a dump of the structure for a table!

Q:41 How can we optimize or increase the speed of a MySQL select query?

A:41

- first of all instead of using `select * from table1`, use `select column1, column2, column3.. from table1`
- Look for the opportunity to introduce index in the table you are querying.
- use `limit` keyword if you are looking for any specific number of rows from the result set.

Q:42 How many ways can we get the value of current session id?

A:42 session_id() returns the session id for the current session.

Q:43 How can we destroy the session, how can we unset the variable of a session?

A:43 session_unregister — Unregister a global variable from the current session

session_unset — Free all session variables

Q:44 How can we destroy the cookie?

A:44 Set the cookie in past.

Q:45 How many ways we can pass the variable through the navigation between the pages?

A:45

- GET/QueryString
- POST

Q:46 What is the difference between ereg_replace() and eregi_replace()?

A:46 eregi_replace() function is identical to ereg_replace() except that this ignores case distinction when matching alphabetic characters. eregi_replace() function is identical to ereg_replace() except that this ignores case distinction when matching alphabetic characters.

Q:47 What are the different functions in sorting an array?

A:47 Sort(), arsort(),
asort(), ksort(),
natsort(), natcasesort(),
rsort(), usort(),
array_multisort(), and
uksort().

Q:48 How can we know the count/number of elements of an array?

A:48 2 ways

- a) sizeof(\$urarray) This function is an alias of count()
- b) count(\$urarray)

Q:49 What is the PHP predefined variable that tells the What types of images that PHP supports?

A:49 Though i am not sure if this is wrong or not, With the exif extension you are able to work with image meta data.

Q:50 How can I know that a variable is a number or not using a JavaScript?

A:50 bool is_numeric (mixed var)

Returns TRUE if var is a number or a numeric string, FALSE otherwise.or use isNaN(mixed var)The isNaN() function is used to check if a value is not a number.

Q:51 List out some tools through which we can draw E-R diagrams for mysql.

A:51 Case Studio

Smart Draw

Q:52 How can I retrieve values from one database server and store them in other database server using PHP?

A:52 we can always fetch from one database and rewrite to another. here is a nice solution of it.

```
$db1 = mysql_connect("host","user","pwd");
mysql_select_db("db1", $db1);
$res1 = mysql_query("query",$db1);$db2 = mysql_connect("host","user","pwd")
mysql_select_db("db2", $db2);
$res2 = mysql_query("query",$db2);At this point you can only fetch records from
you previous ResultSet,
i.e $res1 – But you cannot execute new query in $db1, even if you
supply the link as because the link was overwritten by the new db.so at this point the
following script will fail
$res3 = mysql_query("query",$db1); //this will failSo how to solve that?
```

take a look below.

```
$db1 = mysql_connect("host","user","pwd")
mysql_select_db("db1", $db1);
$res1 = mysql_query("query",$db1);

$db2 = mysql_connect("host","user","pwd", true)
mysql_select_db("db2", $db2);
$res2 = mysql_query("query",$db2);
```

So `mysql_connect` has another optional boolean parameter which indicates whether a link will be created or not. as we connect to the `$db2` with this optional parameter set to 'true', so both link will remain live.

now the following query will execute successfully.

```
$res3 = mysql_query("query",$db1);
```

Thanks goes to Hasan and Hasin for this solution.

Q:53 List out the predefined classes in PHP?

A:53 Directory

- stdClass
- __PHP_Incomplete_Class
- exception
- php_user_filter

Q:54 How can I make a script that can be bi-language (supports English, German)?

A:54 You can maintain two separate language file for each of the language. all the labels are putted in both language files as variables and assign those variables in the PHP source. on runtime choose the required language option.

Q:55 What are the difference between abstract class and interface?

A:55 Abstract class: abstract classes are the class where one or more methods are abstract but not necessarily all method has to be abstract. Abstract methods are the methods, which are declare in its class but not

define. The definition of those methods must be in its extending class.Interface: Interfaces are one type of class where all the methods are abstract. That means all the methods only declared but not defined. All the methods must be define by its implemented class.

Q:56 How can we send mail using JavaScript?

A:56 JavaScript does not have any networking capabilities as it is designed to work on client site. As a result we can not send mails using JavaScript. But we can call the client side mail protocol **mailto** via JavaScript to prompt for an email to send. this requires the client to approve it.

Q:57 How can we repair a MySQL table?

A:57 The syntax for repairing a MySQL table is
REPAIR TABLENAME, [TABLENAME,], [Quick],[Extended]
This command will repair the table specified if the quick is given the MySQL will do a repair of only the index tree if the extended is given it will create index row by row

Q:58 What are the advantages of stored procedures, triggers, indexes?

A:58 A stored procedure is a set of SQL commands that can be compiled and stored in the server. Once this has been done, clients don't need to keep re-issuing the entire query but can refer to the stored procedure. This provides better overall performance because the query has to be parsed only once, and less information needs to be sent between the server and the client. You can also raise the conceptual level by having libraries of functions in the server. However, stored procedures of course do increase the load on the database server system, as more of the work is done on the server side and less on the client (application) side.Triggers will also be implemented. A trigger is effectively a type of stored procedure, one that is invoked when a particular event occurs. For example, you can install a stored procedure that is triggered each time a record is deleted from a transaction table and that stored procedure automatically deletes the corresponding customer from a customer table when all his transactions are deleted.Indexes are used to find rows with specific column values quickly.
Without an index, MySQL must begin with the first row and then read

through the entire table to find the relevant rows. The larger the table, the more this costs. If the table has an index for the columns in question, MySQL can quickly determine the position to seek to in the middle of the data file without having to look at all the data. If a table has 1,000 rows, this is at least 100 times faster than reading sequentially. If you need to access most of the rows, it is faster to read sequentially, because this minimizes disk seeks.

Q:59 What is the maximum length of a table name, database name, and fieldname in MySQL?

A:59 The following table describes the maximum length for each type of identifier.

Identifier	Maximum Length (bytes)
Database	64
Table	64
Column	64
Index	64
Alias	255

There are some restrictions on the characters that may appear in identifiers:

Q:60 How many values can the SET function of MySQL take?

A:60 MySQL set can take zero or more values but at the maximum it can take 64 values

Q:61 What are the other commands to know the structure of table using MySQL commands except explain command?

A:61 describe Table-Name;

Q:62 How many tables will create when we create table, what are they?

A:62 The '.frm' file stores the table definition.

The data file has a '.MYD' (MYData) extension.

The index file has a ‘.MYI’ (MYIndex) extension,

Q:63 What is the purpose of the following files having extensions 1) .frm

2) .myd 3) .myi? What do these files contain?

A:63 In MySql, the default table type is MyISAM.

Each MyISAM table is stored on disk in three files. The files have names that begin with the table name and have an extension to indicate the file type.

The ‘.frm’ file stores the table definition.

The data file has a ‘.MYD’ (MYData) extension.

The index file has a ‘.MYI’ (MYIndex) extension,

Q:64 What is maximum size of a database in MySQL?

A:64 If the operating system or filesystem places a limit on the number of files in a directory, MySQL is bound by that constraint. The efficiency of the operating system in handling large numbers of files in a directory can place a practical limit on the number of tables in a database. If the time required to open a file in the directory increases significantly as the number of files increases, database performance can be adversely affected.

The amount of available disk space limits the number of tables.

MySQL 3.22 had a 4GB (4 gigabyte) limit on table size. With the MyISAM storage engine in MySQL 3.23, the maximum table size was increased to 65536 terabytes (2567 – 1 bytes). With this larger allowed table size, the maximum effective table size for MySQL databases is usually determined by operating system constraints on file sizes, not by MySQL internal limits. The InnoDB storage engine maintains InnoDB tables within a tablespace

that can be created from several files. This allows a table to exceed the maximum individual file size. The tablespace can include raw disk partitions, which allows extremely large tables. The maximum tablespace size is 64TB.

The following table lists some examples of operating system file-size limits. This is only a rough guide and is not intended to be definitive.

For the most up-to-date information, be sure to check the documentation specific to your operating system.

Operating System File-size Limit
Linux 2.2-Intel 32-bit 2GB (LFS: 4GB)

Linux 2.4+ (using ext3 filesystem) 4TB

Solaris 9/10 16TB

NetWare w/NSS filesystem 8TB

Win32 w/ FAT/FAT32 2GB/4GB

Win32 w/ NTFS 2TB (possibly larger)

MacOS X w/ HFS+ 2TB

Q:65 Give the syntax of Grant and Revoke commands?

A:65 The generic syntax for grant is as following

> GRANT [rights] on [database/s] TO [username@hostname] IDENTIFIED BY
[password]

now rights can be

a) All privileges

b) combination of create, drop, select, insert, update and delete etc. We can grant rights on all database by using *.* or some specific database by database.* or a specific table by database.table_name

username@hostname can be either username@localhost, username@hostname and username@%

where hostname is any valid hostname and % represents any name, the *.* any condition

password is simply the password of userThe generic syntax for revoke is as following

> REVOKE [rights] on [database/s] FROM [username@hostname]

now rights can be as explained above

a) All privileges

b) combination of create, drop, select, insert, update and delete etc.

username@hostname can be either username@localhost, username@hostname and username@%

where hostname is any valid hostname and % represents any name, the *.* any condition

Q:66 Explain Normalization concept?

A:66 The normalization process involves getting our data to conform to three progressive normal forms, and a higher level of normalization cannot be achieved until the previous levels have been achieved (there are actually five normal forms, but the last two are mainly academic and will not be discussed).First Normal FormThe First Normal Form (or 1NF) involves

removal of redundant data

from horizontal rows. We want to ensure that there is no duplication of data in a given row, and that every column stores the least amount of information possible (making the field atomic). Second Normal Form Where the First Normal Form deals with redundancy of data across a horizontal row, Second Normal Form (or 2NF) deals with redundancy of data in vertical columns. As stated earlier, the normal forms are progressive, so to achieve Second Normal Form, your tables must already be in First Normal Form. Third Normal Form

I have a confession to make; I do not often use Third Normal Form. In Third Normal Form we are looking for data in our tables that is not fully dependant on the primary key, but dependant on another value in the table

Q:67 How can we find the number of rows in a table using MySQL?

A:67 Use this for mysql

```
>SELECT COUNT(*) FROM table_name;
```

Q:68 How can we find the number of rows in a result set using PHP?

```
A:68 $result = mysql_query($sql, $db_link);  
$num_rows = mysql_num_rows($result);  
echo "$num_rows rows found";
```

Q:69 How many ways we can we find the current date using MySQL?

```
A:69 SELECT CURDATE();  
CURRENT_DATE() = CURDATE()  
for time use  
SELECT CURTIME();  
CURRENT_TIME() = CURTIME()
```

Q:70 What are the advantages and disadvantages of Cascading Style Sheets?

A:70 External Style Sheets
Advantages
Can control styles for multiple documents at once.
Classes can be

created for use on multiple HTML element types in many documents.

Selector and grouping methods can be used to apply styles under complex contexts
Disadvantages An extra download is required to import style information for each

document The rendering of the document may be delayed until the external style sheet is loaded Becomes slightly unwieldy for small quantities of style definitions
Embedded Style Sheets

Advantages

Classes can be created for use on multiple tag types in the document.

Selector and grouping methods can be used to apply styles under complex contexts. No additional downloads necessary to receive style information

Disadvantages

This method can not control styles for multiple documents at once

Inline Styles

Advantages

Useful for small quantities of style definitions. Can override other style specification methods at the local level so only exceptions need to be listed in conjunction with other style methods

Disadvantages

Does not distance style information from content (a main goal of SGML/HTML). Can not control styles for multiple documents at once. Author can not create or control classes of elements to control multiple element types within the document. Selector grouping methods can not be used to create complex element addressing scenarios

Q:71 What type of inheritance that PHP supports?

A:71 In PHP an extended class is always dependent on a single base class, that is, multiple inheritance is not supported. Classes are extended using the keyword ‘extends’.

Q:72 What is the difference between Primary Key and

Unique key?

A:72 Primary Key: A column in a table whose values uniquely identify the rows in the table. A primary key value cannot be NULL.

Unique Key: Unique Keys are used to uniquely identify each row in the table. There can be one and only one row for each unique key value. So NULL can be a unique key. There can be only one primary key for a table but there can be more than one unique for a table.

The structure of table view buyers is as follows:

Q:73

Field	Type	Null	Key	Default	Extra
user_pri_id	int(15)		PRI	null	auto_increment
userid	varchar(10)	YES		null	

the value of user_pri_id the last row 999 then What will happen in the following conditions?

Condition1: Delete all the rows and insert another row then.

What is the starting value for this auto incremented field user_pri_id ,

Condition2: Delete the last row(having the field value 999) and insert another row then. What is the value for this auto incremented field user_pri_id

A:73 In both cases let the value for auto increment field be n then next row will have value n+1 i.e. 1000

Q:74 What are the advantages/disadvantages of MySQL and PHP?

A:74 Both of them are open source software (so free of cost), support cross platform. php is faster then ASP and JSP.

Q:75 What is the difference between GROUP BY and ORDER BY in Sql?

A:75 ORDER BY [col1],[col2],...,[coln]; Tells DBMS according to what columns it should sort the result. If two rows will have the same value in col1 it will try to sort them according to col2 and so on.GROUP BY

[col1],[col2],...,[coln]; Tells DBMS to group results with same value of column col1. You can use COUNT(col1), SUM(col1), AVG(col1) with it, if you want to count all items in group, sum all values or view average

Q:76 What is the difference between char and varchar data types?

A:76 Set char to occupy n bytes and it will take n bytes even if you are storing a value of n-m bytes
Set varchar to occupy n bytes and it will take only the required space and will not use the n bytes
eg. name char(15) will waste 10 bytes if we store ‘mizan’, if each character takes a byte
eg. name varchar(15) will just use 5 bytes if we store ‘mizan’, if each character takes a byte. rest 10 bytes will be free.

Q:77 What is the functionality of md5 function in PHP?

A:77 Calculate the md5 hash of a string. The hash is a 32-character hexadecimal number. I use it to generate keys which I use to identify users etc. If I add random no techniques to it the md5 generated now will be totally different for the same string I am using.

Q:78 How can I load data from a text file into a table?

A:78 you can use LOAD DATA INFILE file_name; syntax to load data from a text file. but you have to make sure that a) data is delimited b) columns and data matched correctly

Q:79 How can we know the number of days between two given dates using MySQL?

A:79 SELECT DATEDIFF('2007-03-07','2005-01-01');

Q:80 How can we know the number of days between two given dates using PHP?

A:80 \$date1 = date('Y-m-d');
\$date2 = '2006-08-15';
\$days = (strtotime(\$date1) - strtotime(\$date2)) / (60 * 60 * 24);

