

A modern conference room with large windows and a long table. The room is empty, with several black office chairs arranged around a long, dark wooden table. The windows offer a view of a city skyline. The image has a blue tint and a stylized, torn-paper-like border.

User-Defined vs System Variables

User-Defined vs System Variables

- variables in MySQL can be characterized according to the way they have been created

User-Defined vs System Variables

- variables in MySQL can be characterized according to the way they have been created

user-defined

User-Defined vs System Variables

- variables in MySQL can be characterized according to the way they have been created

user-defined

system

User-Defined vs System Variables

- variables in MySQL can be characterized according to the way they have been created

user-defined

variables that can be *set by the user manually*

system

User-Defined vs System Variables

- variables in MySQL can be characterized according to the way they have been created

user-defined

variables that can be *set by the user manually*

system

variables that are *pre-defined* on our system – the MySQL server

User-Defined vs System Variables

- variables in MySQL can be characterized according to the way they have been created

	local	session	global
user-defined	✓		
system			

- local variables can be user-defined only

User-Defined vs System Variables

variables in MySQL can be characterized according to the way they have been created

	local	session	global
user-defined	✓		
system	✗		

- local variables can be user-defined only

User-Defined vs System Variables

variables in MySQL can be characterized according to the way they have been created

	local	session	global
user-defined	✓		
system	✗		✓

- only system variables can be set as global

User-Defined vs System Variables

- variables in MySQL can be characterized according to the way they have been created

	local	session	global
user-defined	✓		✗
system	✗		✓

- only system variables can be set as global

User-Defined vs System Variables

variables in MySQL can be characterized according to the way they have been created

	local	session	global
user-defined	✓		✗
system	✗		✓

- both user-defined and system variables can be set as session variables

User-Defined vs System Variables

variables in MySQL can be characterized according to the way they have been created

	local	session	global
user-defined	✓	✓	✗
system	✗	✓	✓

- both user-defined and system variables can be set as session variables

User-Defined vs System Variables

variables in MySQL can be characterized according to the way they have been created

	local	session	global
user-defined	✓	✓	✗
system	✗	✓	✓

- both user-defined and system variables can be set as session variables
there are limitations to this rule!

User-Defined vs System Variables

variables in MySQL can be characterized according to the way they have been created

	local	session	global
user-defined	✓	✓*	✗
system	✗	✓*	✓

- both user-defined and system variables can be set as session variables
there are limitations to this rule!

User-Defined vs System Variables

variables in MySQL can be characterized according to the way they have been created

	local	session	global
user-defined	✓	✓*	✗
system	✗	✓*	✓

- some of the system variables can be defined as global only; they cannot be session variables

User-Defined vs System Variables

variables in MySQL can be characterized according to the way they have been created

	local	session	global
user-defined	✓	✓*	✗
system	✗	✓*	✓

- some of the system variables can be defined as global only; they cannot be session variables (e.g. `.max_connections()`)