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How To: MySQL Transaction Patterns

Arun Sangameswaran - 2017-09-08 - 0 Comments - in ScaleArc Registered User



Release	Classification	Level	OS Platform	Category
1.12.04	High 7x		MS2004	Transaction



TOPIC

What are ScaleArc MySQL transaction patterns and how to configure them?

DETAILS

As part of advanced configuration, ScaleArc provides the option to configure patterns/rules at varying levels of granularity. These patterns/rules determine how ScaleArc caches queries and uses read ignore statements within transaction to load balance traffic.

Contact support@scalearc.com for additional details on configuring these features.

FIELD	Description	Default/User input
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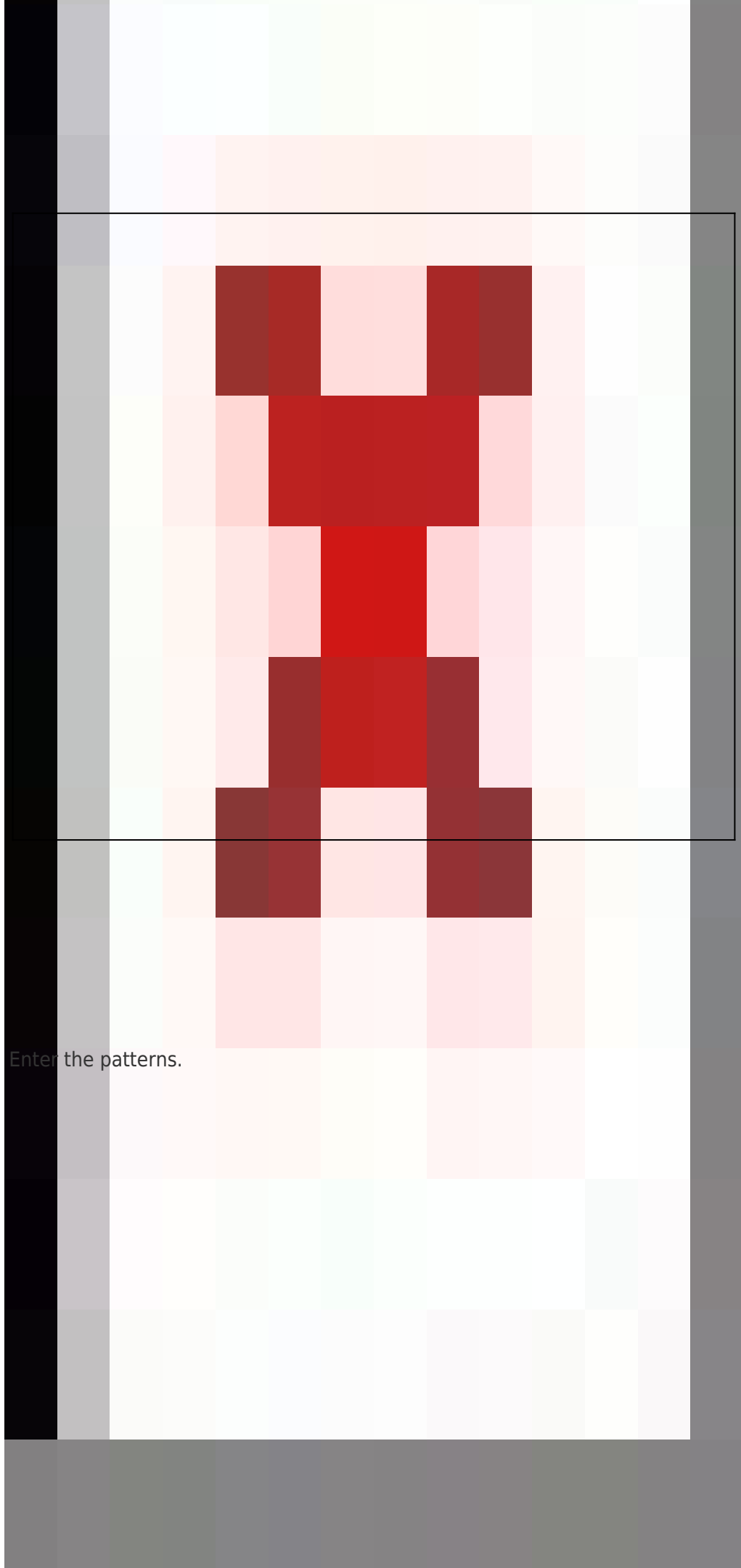
FIELD	Description	Default/User input
Read/Write Split Within Transaction	<p>Enabling this option will allow ScaleArc to load balance SQL statement within a transaction. Note that load balancing happens only for the read part of a transaction. Additionally, users can provide transaction load balancing and transaction cache pattern to perform selective load balancing and caching of read queries in any part of transaction. Enable for repeatable read - select this option to enable Read/Write split within transaction for server with repeatable read level of isolation. Isolation level support in ScaleArc</p> <ol style="list-style-type: none"> 1. Read committed - supported by default. 2. Read uncommitted - supported by default. 3. Repeatable read - supported if enabled (not default) 4. Serializable - not supported. <p>Mixed isolation levels are not recommended in ScaleArc. All nodes in a cluster should be configured with the same isolation level.</p>	<p>Default is OFF. Turn ON to enable the feature. If you need to configure advanced rules, contact support@scalearc.com.</p>

Transaction Pattern

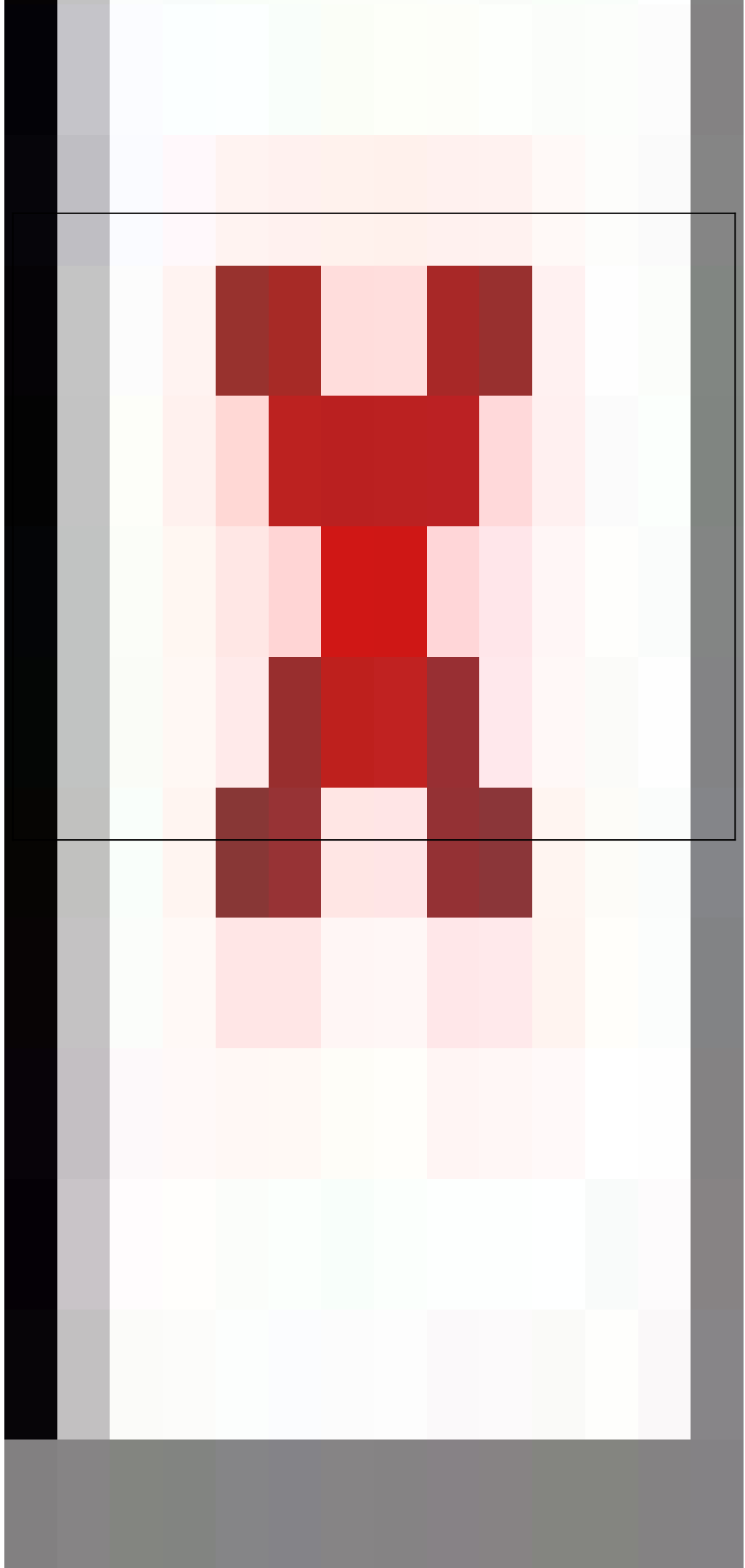
Follow the steps below to configure a transaction pattern which will decide the behavior for caching, load balancing, and read ignore for transactions. You can also

enable/disable a pattern.

Click on the gear icon to add/configure patterns for the databases.



Enter the patterns.



Complete the entries as follows:

Field/Button	Description	User Input
ADD Pattern button	Opens the related screen. Create a pattern and ensure that it's entered in the order in which you want it executed.	
Order	Specifies the order in which the query should be executed.	Enter the order.
Rules	Enter the pattern's regular expression.	Enter the rule.
Time To Live	Defines when the cache expires.	Enter a value when you create a pattern.

Field/Button	Description	User input
Read ignore	This option allows ScaleArc to treat matching SQL statements as write instead of read. This applies only in transaction.	Select enabled/disabled
Cache	This option allows ScaleArc to perform caching of matching SQL statements in transaction.	Select enabled/disabled
LB	This option allows ScaleArc to perform load-balancing of matching SQL statements in transaction.	Select enabled/disabled
Enabled	Disables or enables a transaction rule from executing, depending on its state. You can enable or disable this option during or after you create the pattern.	The default is enabled.
Delete icon	You can also click on the delete icon to delete the cache rule.	Click icon to delete

It is important to include only those read statements in transaction that are not expected to fetch frequently-changing data. Frequently changing SQL statements will get load balanced in a manner where ScaleArc will fetch data from read server as 'READ-COMMITTED' only. For such statements, use

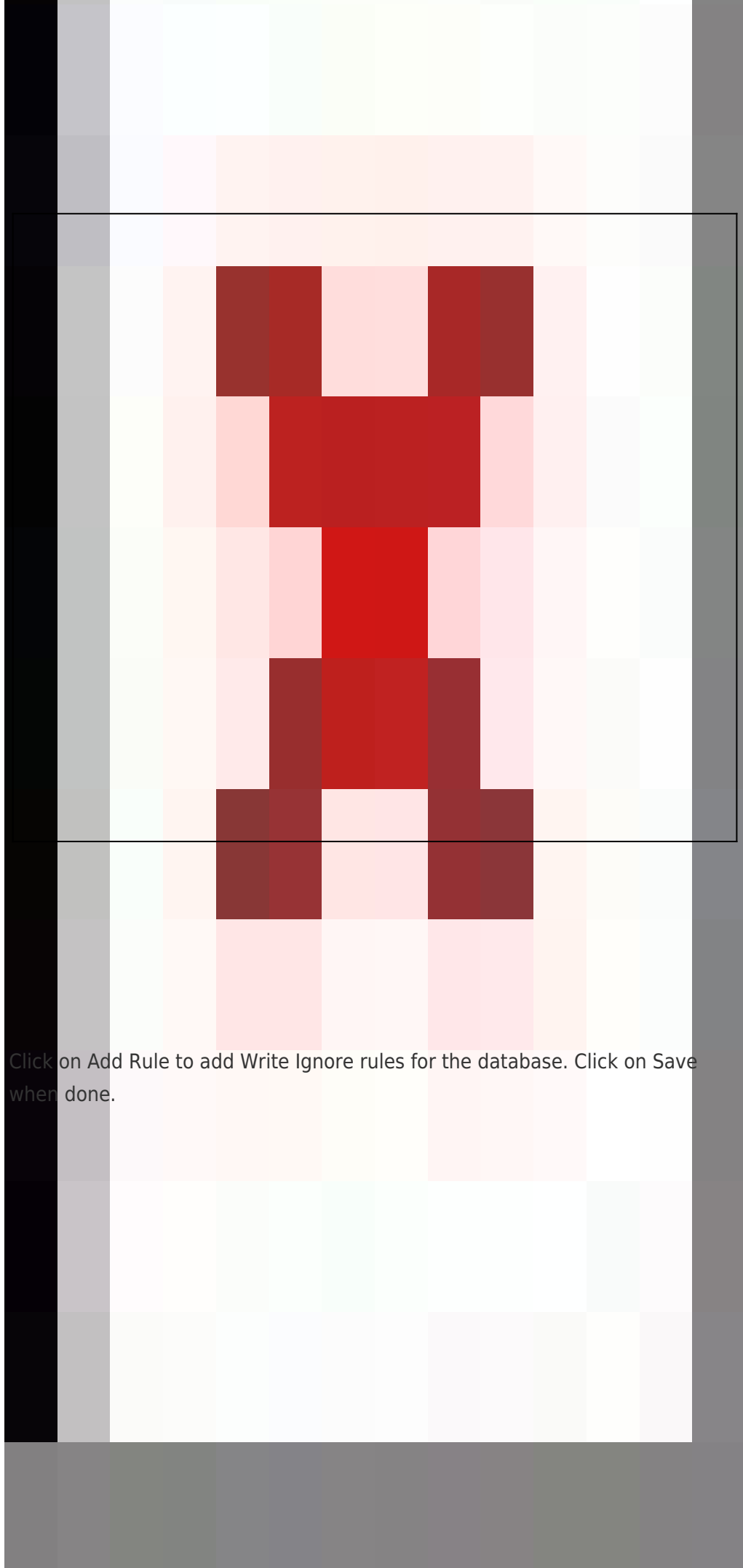
pattern management to keep it out of load balancing.

Write Ignore Rules

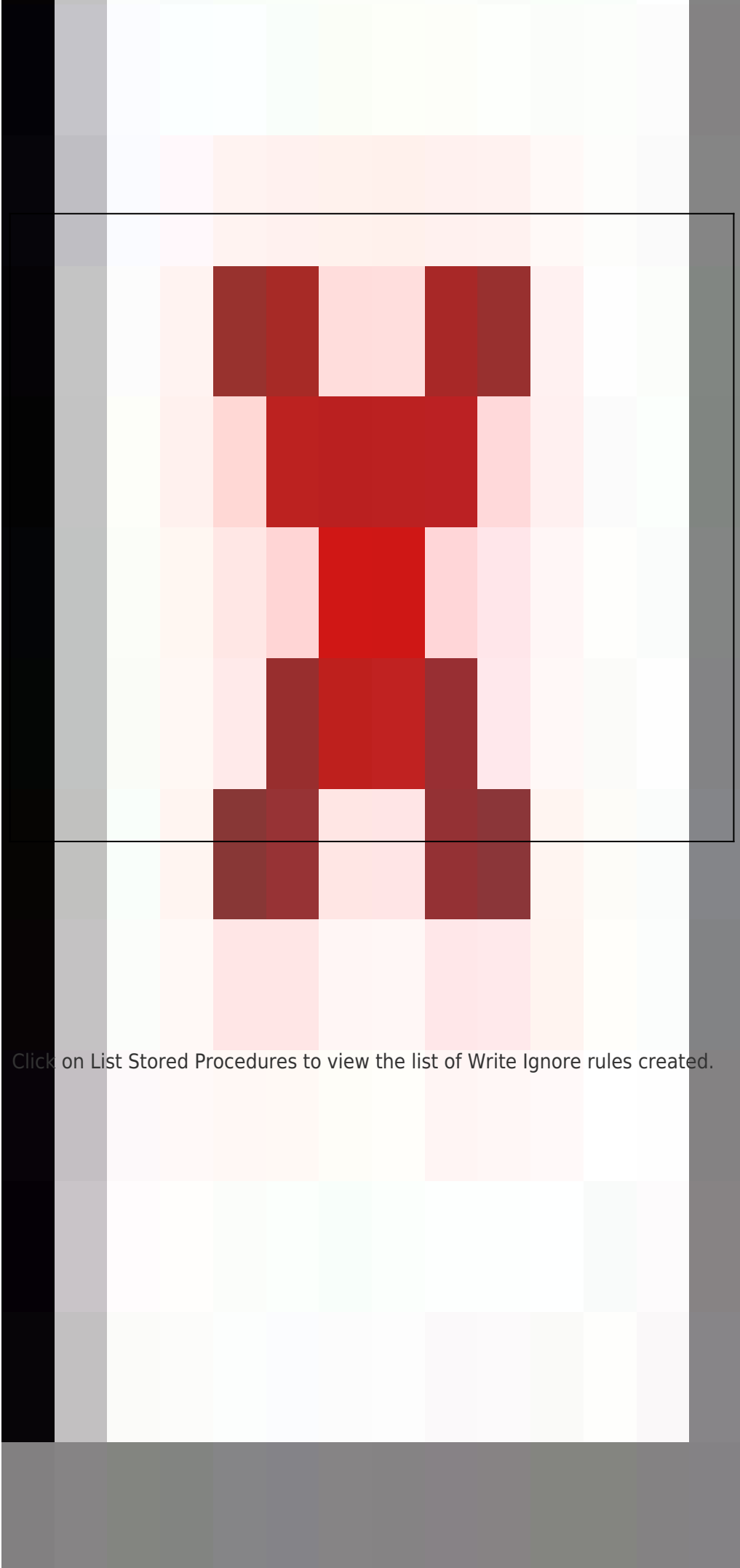
Follow the steps below to configure stored procedure which will exclude certain

MySQL SQL statements from being detected as write statements.

Click on the Write Ignore Rules tab.



Click on Add Rule to add Write Ignore rules for the database. Click on Save when done.



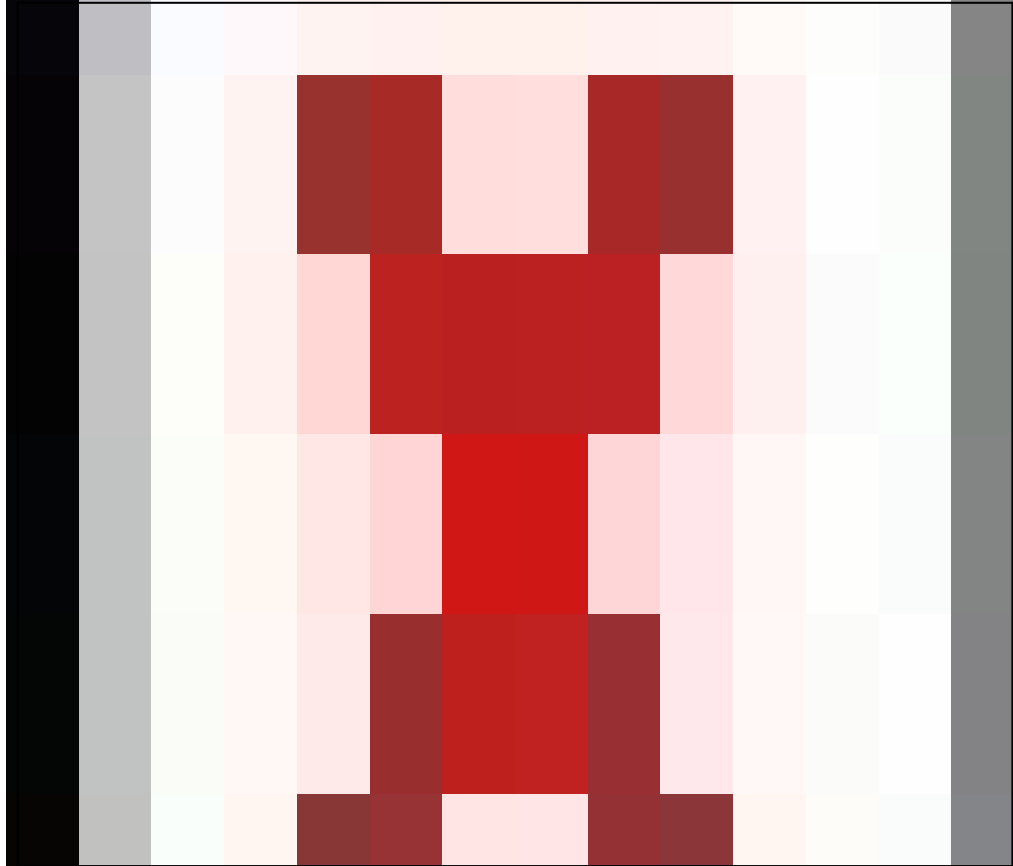
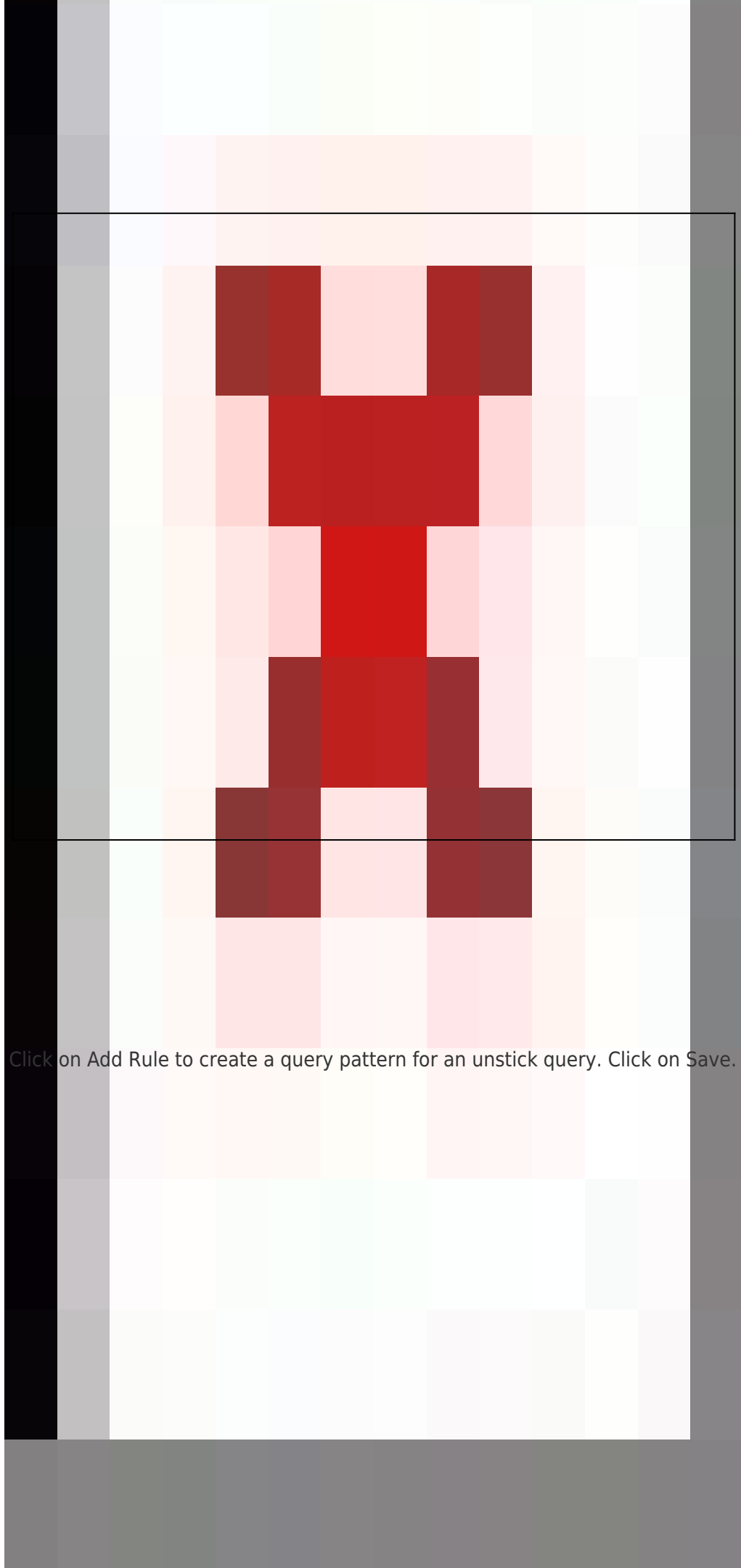
[Click on List Stored Procedures](#) to view the list of Write Ignore rules created.

Unstick Query

Query patterns created here are matched against each SQL statement. If matched,

connections will unstick from the existing server connection.

Click on the Unstick Query tab.



Click on Add Rule to create a query pattern for an unstick query. Click on Save.

Permalink:
<https://support.scalearc.com/kb/articles/4405>



Tags

patterns

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