

HiveQL and MySQL Comparison

Retrieve Data

Function	MySQL	Hive
Retrieving Information (General)	<pre>SELECT from_columns FROM table WHERE conditions;</pre>	<pre>SELECT from_columns FROM table WHERE conditions;</pre>
Retrieving All Values	<pre>SELECT * FROM table;</pre>	<pre>SELECT * FROM table;</pre>
Retrieving Some Values	<pre>SELECT * FROM table WHERE rec_name = "value";</pre>	<pre>SELECT * FROM table WHERE rec_name = "value";</pre>
Retrieving With Multiple Criteria	<pre>SELECT * FROM TABLE WHERE rec1 = "value1" AND rec2 = "value2";</pre>	<pre>SELECT * FROM TABLE WHERE rec1 = "value1" AND rec2 = "value2";</pre>
Retrieving Specific Columns	<pre>SELECT column_name FROM table;</pre>	<pre>SELECT column_name FROM table;</pre>
Retrieving Unique Output	<pre>SELECT DISTINCT column_name FROM table;</pre>	<pre>SELECT DISTINCT column_name FROM table;</pre>
Sorting	<pre>SELECT col1, col2 FROM table ORDER BY col2;</pre>	<pre>SELECT col1, col2 FROM table ORDER BY col2;</pre>
Sorting Reverse	<pre>SELECT col1, col2 FROM table ORDER BY col2 DESC;</pre>	<pre>SELECT col1, col2 FROM table ORDER BY col2 DESC;</pre>

Counting Rows	<code>SELECT COUNT(*) FROM table;</code>	<code>SELECT COUNT(*) FROM table;</code>
Grouping With Counting	<code>SELECT owner, COUNT(*) FROM table GROUP BY owner;</code>	<code>SELECT owner, COUNT(*) FROM table GROUP BY owner;</code>
Maximum Value	<code>SELECT MAX(col_name) AS label FROM table;</code>	<code>SELECT MAX(col_name) AS label FROM table;</code>
Selecting from multiple tables (Join same table using alias w/"AS")	<code>SELECT pet.name, comment FROM pet, event WHERE pet.name = event.name;</code>	<code>SELECT pet.name, comment FROM pet JOIN event ON (pet.name = event.name)</code>

Environment

Function	MySQL	Hive
Selecting a database	<code>USE database;</code>	<code>USE database;</code>
Listing databases	<code>SHOW DATABASES;</code>	<code>SHOW DATABASES;</code>
Listing tables in a database	<code>SHOW TABLES;</code>	<code>SHOW TABLES;</code>
Describing the format of a table	<code>DESCRIBE table;</code>	<code>DESCRIBE (FORMATTED EXTENDED) table;</code>

Creating a database	<pre>CREATE DATABASE db_name;</pre>	<pre>CREATE DATABASE db_name;</pre>
Dropping a database	<pre>DROP DATABASE db_name;</pre>	<pre>DROP DATABASE db_name (CASCADE) ;</pre>