



Command Line Interface Reference

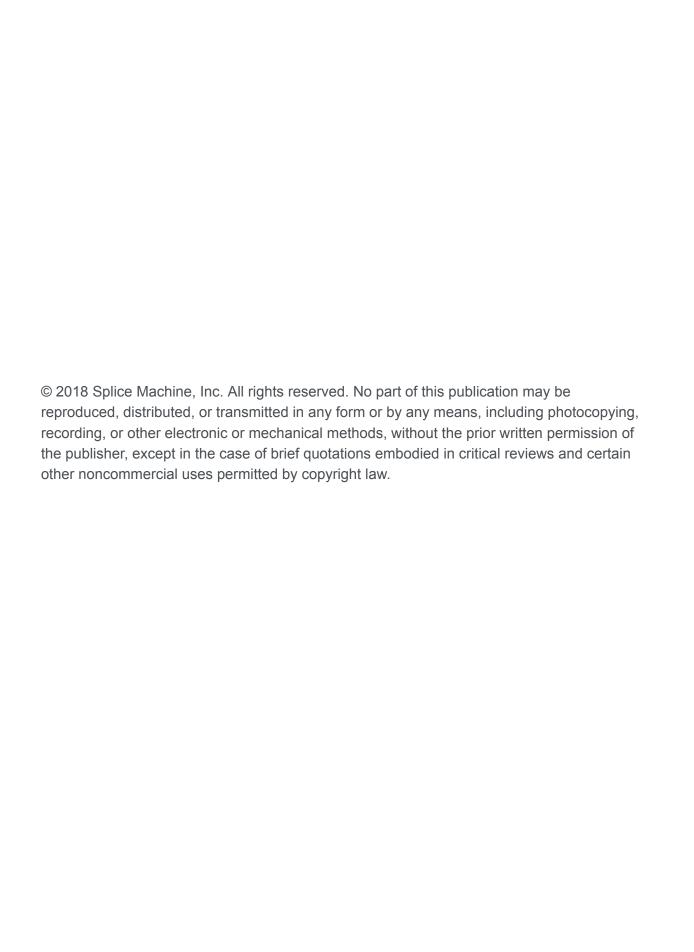


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Splice Machine Commands Reference

This section contains a reference topic page for each Splice Machine command. Another topic, <u>Using the splice> Command Line Interface (page 8)</u>, presents general syntax and usage help for the splice> prompt.

- Sommands you can use with all connections to Splice Machine databases (page 3), which means that you can use them with the sqlshell interface in our On-Premise Database and Database-as-Service products, and also with programs that connect to a Splice Machine database using JDBC or ODBC, including the Zeppelin notebook interface in our Database Service.
- Sommands you can only use with the splice (sqlshell.sh) command line interface in our On-Premise Database and Database-as-Service products (page 5). These are mostly commands that display information about the database in a terminal interface, and are not available through JDBC or ODBC connections.

Commands You Can Use with All Connections to a Splice Machine Database

The following table summarizes the commands that you can use them with the sqlshell interface in our *On-Premise Database* and *Database-as-Service* products, and also with programs that connect to a Splice Machine database using JDBC or ODBC, including the Zeppelin notebook interface in our Database Service.

Command	Description	Usage
Analyze (page 18)	Collects statistics for a table or schema.	splice> analyze table myTable; splice> analyze schema myschema;
Autocommit (page 23)	Turns the connection's auto-commit mode on or off.	splice> autocommit off;
Commit (page 25)	Commits the currently active transaction and initiates a new transaction.	splice> commit;

Command	Description	Usage
Execute (page 26)	Executes an SQL prepared statement or SQL command string.	splice> execute 'insert into myTable(id, val) values(?,?)';
Explain (page 30)	Displays the execution plan for an SQL statement.	splice> explain select count(*) from si;
Export (page 31)	Exports query results to CSV files.	splice> EXPORT('/my/export/dir', null, null, null, null, null) SELECT a,b,sqrt(c) FROM join t2 on t1.a=t2.a;
Prepare (page 34)	Creates a prepared statement for use by other commands.	splice> prepare seeMenu as 'SELECT * FROM menu';
Release Savepoint (page 35)	Releases a savepoint.	splice> release savepoint gSavePt1;
Remove (page 40)	Removes a previously prepared statement.	splice> remove seeMenu;
Rollback (page 41)	Rolls back the currently active transaction and initiates a new transaction.	splice> rollback;
Rollback to Savepoint (page 43)	Rolls the current transaction back to the specified savepoint.	splice> rollback to savepoint gSavePt1;
Savepoint (page 46)	Creates a savepoint within the current transaction.	splice> savepoint gSavePt1;

Commands You Can Only Use with Our Command Line Interface (sqlshell.sh)

The following table summarizes the commands that you can only use with the splice> command line interface (sqlshell.sh) in our *On-Premise Database* and *Database-as-Service* products.

Command	Description	Usage
Connect (page 49)	Connect to a database via its URL.	splice> connect 'jdbc:splice://xyz:1527/ splicedb';
Describe (page 51)	Displays a description of a table or view.	splice> describe myTable;
Disconnect (page 53)	Disconnects from a database.	splice> disconnect SPLICE;
Elapsedtime (page 54)	Enables or disables display of elapsed time for command execution.	splice> elapsedtime on;
Exit (page 55)	Causes the command line interface to exit.	splice> exit;
Help (page 56)	Displays a list of the available commands.	splice> help;
MaximumDisplayWidth (page 60)	Sets the maximum displayed width for each column of results displayed by the command line interpreter.	splice> maximumdisplaywidth 30;
Run (page 61)	Runs commands from a file.	splice> run myCmdFile;

Command	Description	Usage
Set Connection (page 62)	Allows you to specify which connection is the current connection	splice> set connection sample1;
Show Connections (page 63)	Displays information about active connections and database objects.	splice> show connections;
Show Functions (page 64)	Displays information about functions defined in the database or in a schema.	splice> show functions in splice;
Show Indexes (page 66)	Displays information about the indexes defined on a table, a database, or a schema.	splice> show indexes from mytable;
Show Primary Keys (page 68)	Displays information about the primary keys in a table.	splice> show primarykeys from mySchema.myTable;
Show Procedures (page 70)	Displays information about active connections and database objects.	splice> show procedures in syscs_util;
Show Roles (page 76)	Displays information about all of the roles defined in the database.	splice> show roles;
Show Schemas (page 77)	Displays information about the schemas in the current connection.	splice> show schemas;
Show Synonyms (page 78)	Displays information about the synonyms that have been created in a database or schema.	splice> show synonyms;

Command	Description	Usage
Show Tables (page 79)	Displays information about all of the tables in a database or schema.	splice> show tables in SPLICE;
Show Views (page 83)	Displays information about all of the active views in a schema.	splice> show views in SPLICE;

Using the splice> Command Line Interface

This topic presents information that will help you in using the Splice Machine splice command line interpreter, in the following sections:

- The <u>splice Command Line Interpreter (page 0)</u> section shows you how to invoke the splice command line.
- The <u>Command Line Output (page 10)</u> section describes how you can adjust the appearance of output from the interepreter.
- The <u>Command Line Syntax (page 10)</u> section summarizes the syntax of commands, including capitalization and case-sensitivity rules, as well as various special characters you can use in your commands. It also shows you how to include comments in your command lines and how to run a file of SQL commands.
- The <u>Example Command Lines (page 14)</u> section shows several examples of command lines.
- The <u>Scripting Splice Commands (page 0)</u> tutorial describes how to create a script of splice commands to run a series of operations like loading a number of files into your database

The remainder of this section contains a reference page for each of the command line commands

splice > Command Line Interpreter

To run the Splice Machine command line interpreter, run the sqlshell.sh script in your terminal window.

```
% ./sqlshell.sh splice>
```

When the interpreter prompts you with splice>, you can enter commands, ending each with a semicolon. For a complete description of splice> syntax, see the next section in this topic, Command Line Syntax (page 10),

Note that you can optionally specify a file of sql commands that the interpreter will run using the -f parameter; after running those commands, the interpreter exits. For example:

./sqlshell.sh -f /home/mydir/sql/test.sql

You can optionally include parameter values when running sqlshell.sh script, to change default values. Here's the syntax:

sqlshell.sh [-h host] [-p port] [-u username] [-s password] [-f commandsFile

-host

The hostname or IP address of your Splice Machine HBase RegionServer.

The default value is localhost.

-port

The port on which Splice Machine is listening for your connection.

The default value is 1527.

-username

The user name for your Splice Machine database.

The default value is splice.

-password

The password for your Splice Machine database.

The default value is admin.

-f [fileName]

The name of a file with SQL commands in it: sqlshell starts up the splice command line interpreter, runs the commands in the file, and then exits. For example:

The test.sql file used in the above example contains the following commands:

```
elapsedtime on;
select count(*) from CUST_EMAIL;
```

Command Line Output

Output from splice commands is displayed in your terminal window. The <u>maximumdisplaywidth</u> (page 60) setting affects how the output is displayed; specifically, it determines if the content of each column is truncated to fit within the width that you specify.

When you set <u>maximum displaywidth</u> (page 60) to 0, all output is displayed, without truncation.

Command Line Syntax

This section briefly summarizes the syntax of command lines you can enter in Zeppelin notebooks and in response to the splice> prompt, including these subsections:

- >> Finishing and submitting command lines (page 11)
- Capitalization and case sensitivity rules (page 11)
- Special character usage (page 11)
- » Running multi-line commands (page 0)
- » Running commands from a file (page 13)
- Including comments in your command lines (page 14)
- Using rlWrap on the command line (page 14)

Finish Commands with a Semicolon

The command line interface allows you to enter multi-line commands, and waits for a non-escaped semicolon (;) character to signal the end of the command.

A command is not executed until you enter the semicolon character and press the Return or Enter key.

Capitalization and Case Sensitivity Rules

Certain identifiers and keywords are case sensitive:

Identifier	Case Sensitive?	Notes and Example
SQL keywords	Not case sensitive	These are all equivalent: SELECT, Select, select, SeLeCt.
ANSI SQL identifiers	Not case sensitive	These are not case sensitive unless they are delimited.
Java-style identifiers	Always case sensitive	These are NOT equivalent: my_name, My_Name.

Special Characters You Can Use

The following table describes the special characters you can use in commands:

Purpose	Character(s) to use	Notes and example
To delimit special identifiers	Double quotation marks (")	Special identifiers are also known as delimited identifiers.
To delimit character strings	Single quotation marks (')	
To escape a single quote or apostrophe within a character string	Single quotation mark ((')	Since single quotation marks are used to delimit strings, you must escape any single quotation marks you want included in the string itself. Use the single quotation mark itself as the escape character, which means that you enter two single quotation marks within a character string to include one single quotation mark. Example: 'This string includes "my quoted string" within it.'
To escape a double quote	Not needed	You can simply include a double quotation mark in your command lines.
To specify a wild card within a Select expression	The asterisk (*) character	This is the SQL metasymbol for selecting all matching entries. Example: SELECT * FROM MyTable;
To specify a wild card sequence in a string with the LIKE operator	The percentage (%) character	Example: SELECT * FROM MyTable WHERE Name LIKE 'Ga%';

Purpose	Character(s) to use	Notes and example
To specify a single wild card character in a string with the LIKE operator	The underline (_) character	Example: SELECT * FROM MyTable WHERE Name LIKE '%Er_n%';
To begin a single-line comment	Two dashes ()	the following selects everything in my table: SELECT * FROM MyTable;
To bracket a multi-line	/* and */	All text between the comment start /* and the comment end */ is ignored.
comment	comment	/* the following selects everything in my ta ble, which we'll then display on the screen */ SELECT * FROM MyTable;

Entering Multi-line Commands

When using the command line (the splice> prompt), you must end each SQL statement with a semicolon (;). For example:

```
splice> select * from myTable;
```

You can extend SQL statements across multiple lines, as long as you end the last line with a semicolon. Note that the splice> command line interface prompts you with a fresh > at the beginning of each line. For example:

```
splice> select * from myTable> where i > 1;
```

Running SQL Statements From a File

You can also create a file that contains a collection of SQL statements, and then use the run command to run those statements. For example:

splice> run 'path/to/file.sql';

Including Comments

You can include comments on the command line or in a SQL statement file by prefacing the command with two dashes (--). Any text following the dashes is ignored by the SQL parser. For example:

splice> select * from myTable -- This selects everything in myTable;

Misaligned Quotes

If you mistakenly enter a command line that has misaligned quotation symbols, the interpreter can seem unresponsive. The solution is to add the missing quotation mark(s), followed by a semicolon, and resubmit the line. It won't work as expected, but it will enable you to keep working.

Using rlWrap on the Command Line

rlWrap is a Unix utility that Splice Machine encourages you to use: it allows you to scroll through your command line history, reuse and alter lines, and more. We've included a synopsis of it here. (page 0)

Example Command Lines

Here are several example command lines:

Operation	Command Example
Display a list of all tables and their schemas	splice> show tables;
Display the columns and attributes of a table	splice> describe tableA;
Limit the number of rows returned from a select statement	<pre>splice> select * from tableA { limit 10 };</pre>
Print a current time stamp	splice> values current_timestamp;

Operation

Command Example

NOTE: Remember that you must end your command lines with the semicolon (;) character, which submits the command line to the interpreter.

Scripting splice> Commands

You can use the Splice Machine Command Line Interface (splice>) to interactively run database commands. This topic describes how to create a script of splice> commands to run a series of operations, such as loading a number of files into your database. To script a series of splice> commands, you need to create:

- >> an SQL commands file containing the SQL statements you want executed
- >> an SQL file to connect to the database and invoke the SQL commands file
- » a shell script using Bash (/bin/bash)

Follow these steps to create your script:

1. Create a file of SQL commands:

First, create a file that contains the SQL commands you want to run against your Splice Machine database. For this example, we'll create a file named create-my-tables.sql that creates a table in the database:

```
create table customers (
CUSTOMER_ID BIGINT,
FIRST_NAME VARCHAR(30),
LAST_NAME VARCHAR(30)
);
```

2. Create an SQL file to connect to the database and invoke the commands file

We need a separate SQL file named my_load_datascript.sqlthat connects to your database and then invokes the file of SQL commands we just created.

NOTE: The connect command in this file must run before running the file of SQL statements.

Here we name the first SQL file, and define it to run the SQL statements file named create-my-tables.sql:

```
--First connect to the database
connect 'jdbc:splice://<regionServer>:1527/splicedb';

--Next run your sql file
run '/users/yourname/create-my-tables.sql';
show tables;
quit;
```

If you are running Splice Machine on a cluster, connect from a machine that is NOT running an HBase RegionServer and specify the IP address of a regionServer node, e.g. 10.1.1.110. If you're using the standalone version of Splice Machine, specify localhost instead.

3. Create a shell script to run your SQL connect file

We now create a shell script named load_datascript.sh to run the my load datascript.sql file:

```
#!/bin/bash

export CLASSPATH=<FULL_PATH_TO_SPLICEMACHINE_JAR_FIL
E>
java -Djdbc.drivers=com.splicemachine.db.jdbc.ClientDriver -Dij.outfile=m
y_load_datascript.out com.splicemachine.db.tools.ij < my_load_datascript.s
ql
```

The first line of this script must set the CLASSPATH to the location of your Splice Machine jar file. The second line runs the ij command, specifying its output file (my_load_datascript.out) and its SQL commands input file, which is the my_load_datascript_sql file that we created in the previous step.

4. Make your shell script executable

We need to make the shell script executable with the chmod shell command:

chmod +x load datascript.sh

5. Use nohup to run the script

The nohup utility allows you to run a script file in the background, which means that it will continue running if you log out, disconnect from a remote machine, or lose your network connection.

nohup ./load_datascript.sh > ./load_datascript.out 2>&1 &

Here's the syntax for the nohup utility:

nohup ./command-name.sh > ./command-name.out 2>&1 &

command-name.sh

The name of the shell script or a command name.

command-name.out

The name of the file to capture any output written to stdout.

2>&1

This causes stderr (file descriptor 2) to be written to stdout (file descriptor 1); this means that all output will be captured in commandname.out.

&

The nohup utility does not automatically run its command in the background, so we add the & to do

Analyze Command

The analyze command collects statistics for a specific table, or for an entire schema.

NOTE: Once statistics have been collected for a schema or table, they are automatically used by the query optimizer.

Syntax

ANALYZE TABLE [schemaName '.'] table-Name [ESTIMATE STATISTICS SAMPLE samplepercent PERCENT]; ANALYZE SCHEMA schema-Name;

table-Name

The name of the table you want to analyze, which can optionally be qualified by its schema name. If you don't specify a *schemaName*, the current schema is assumed.

You must have insert permission for the table to be able to run this command.

schema-Name

The name of the schema you want to analyze.

You must have insert permission for all tables in the schema to be able to run this command.

samplepercent

A value between 0 and 100 that specifies the sampling percentage to use when generating statistics for this table.

If you include this clause, statistics are generated by sampling the specified sampling percentage of the table. This can significantly reduce the overhead associated with generating statistics.

If you do not include this clause, statistics are generated based on the full table.

.

Analyze Table

The ANALYZE TABLE command collects statistics for a specific table in the current schema. It also collects statistics for the index associated with the table in the schema. For example, if you have the following in your database:

- » a table named myTable
- >> myTable has two indices: myTableIndex1 and myTableIndex2

Then ANALYZE TABLE will collect statistics for myTable, myTableIndex1, and myTableIndex2.

The ANALYZE TABLE command displays the following information for each partition of the table:

Value	Description	
schemaName	The name of the schema.	
tableName The name of the table.		
partition The Splice Machine partition. We merge the statistics f table partitions, so the partition will show as -All- when specify one of the non-merged type values for the stats parameter.		
rowsCollected	The total number of rows collected for the table.	
partitionSize	The combined size of the table's partitions.	

Value	Description					
statsType	The type of statistics, which is one of these values:					
	0	Full table (not sampled) statistics that reflect the unmerged partition values.				
	1	Sampled statistics that reflect the unmerged partition values.				
	2	Full table (not sampled) statistics that reflect the table values after all partitions have been merged.				
	3	Sampled statistics that reflect the table values after all partitions have been merged.				
sampleFraction	The sampling percentage, expressed as 0.0 to 1.0,					
	>> If statsType=0 or statsType=1 (full statistics), this value is not used, and is shown as 0.					
	If statsType=2 or statsType=3, this value is the percentage of rows to be sampled. A value of 0 means no rows, and a value of 1 means all rows (same as full statistics).					

Analyze Schema

The ANALYZE SCHEMA command collects statistics for every table in the schema. It also collects statistics for the index associated with every table in the schema. For example, if you have the following situation:

- » a schema named mySchema
- >> mySchema contains two tables: myTable1 and myTable2
- >> myTable1 has two indices: myTable1Index1 and myTable1Index2

Then the ANALYZE SCHEMA command will collect statistics for myTable1, myTable2, myTable1Index1, and myTable1Index2.

The ANALYZE SCHEMA command displays the same information as shown for ANALYZE TABLE, for each table in the in the schema.

NOTE: This command operates like the <u>SYSCS_util.collect_schema_statistics</u> (page 0) built-in system procedure.

Examples

splice> analyze table test.t2; schemaName tableName partition rowsCollec& partitionSize partitionCount stat sType sampleFraction						
TEST T2	-All-	39226	235356	1	2	0
1 rows selected splice>splice> analyze table test.t2 estimate statistics sample 50 percent; schemaName tableName partition rowsCollec& partitionSize partitionCount stat sType sampleFraction						
TEST T2	-All-	19613	235356	1	3	0.5
splice>splice> analyze schema test; schemaName tableName partition rowsCollec& partitionSize partitionCount stat sType sampleFraction						
TEST T2 TEST T5 2 rows selected splice>		•	235356 235356	'	2 2	0 0

Autocommit Command

The autocommit command enables or disables auto-commit mode.

JDBC specifies that the default auto-commit mode is enabled; however, certain types of processing require that auto-commit mode be disabled.

Syntax

AUTOCOMMIT {ON | OFF}

ON

Enables auto-commit mode.

If auto-commit mode is changed from disabled (off) to enabled (on) when there is a transaction outstanding, that work is committed when the current transaction commits, not at the time auto-commit is enabled. Thus, if you are enabling auto-commit when a transaction is outstanding, first use either the Rollback (page 41) command to ensure that all prior work is completed before the return to auto-commit mode.

OFF

Disables auto-commit mode.

Examples

```
splice> autocommit off;
splice> DROP TABLE menu;
0 rows inserted/updated/deleted
splice> CREATE TABLE menu (course CHAR(10), item CHAR(20), price INT);
0 rows inserted/updated/deleted
splice> INSERT INTO menu VALUES ('entree', 'lamb chop', 14),
('dessert', 'creme brulee', 6),
('appetizer', 'baby greens', 7);
3 rows inserted/updated/deleted
splice> commit;
splice> autocommit on;
splice>
```

Commit Command

The commit command issues a java.sql.Connection.commit request, which commits the currently active transaction and initiates a new transaction.

NOTE: You should only use this command when auto-commit mode is disabled.

Syntax

COMMIT

Examples

splice> commit;
splice>

Execute Command

The execute command executes an SQL command string or a prepared statement.

Syntax

```
EXECUTE { SQLString | PreparedStatementIdentifier }

[ USING { String | Identifier } ]
```

SQLString

The SQL command string to execute; this string is passed to the connection without further processing by the command line interpreter.

PreparedStatementIdentifier

The identifier of the prepared statement to execute; this must be the name associated with a prepared statement when created by the Prepare (page 34) command.

String

Use this or *Identifier* to supply values for dynamic parameters, if the command being executed contains them.

Identifier

Use this or *String* to supply values for dynamic parameters, if the command being executed contains them. This identifier must have a result set as its result:

- Each row of the result set is applied to the input parameters of the command to be executed, so the number of columns in the Using clause's result set must match the number of input parameters in the statement being executed.
- >> The command line interpreter displays the results of each execution of the statement as they are created.
- >> If the Using clause's result set contains zero rows, the statement is not executed.

Examples

```
splice> autocommit off;
splice> prepare menuInsert as 'INSERT INTO menu VALUES (?, ?, ?)';
splice> execute menuInsert using 'VALUES
("entree", "lamb chop", 14),
("dessert", "creme brulee", 6)';
1 row inserted/updated/deleted
1 row inserted/updated/deleted
splice > commit;
splice> connect 'jdbc:splice://abc:1527/splicedb;user=me;password=mypswd';
splice> create table firsttable (id int primary key,
name varchar(12));
0 rows inserted/updated/deleted
splice> insert into firsttable values
10,'TEN'),(20,'TWENTY'),(30,'THIRTY');
3 rows inserted/updated/deleted
splice> select * from firsttable;
ID
       NAME
10
      ITEN
20
       TWENTY
30
       THIRTY
3 rows selected
splice> connect 'jdbc:splice://xyz:1527/splicedb';
splice(CONNECTION1)> create table newtable (newid int primary key,
newname varchar(12));
0 rows inserted/updated/deleted
splice(CONNECTION1)> prepare src@connection0 as 'select * from firsttable';
splice(CONNECTION1)> autocommit off;
splice(CONNECTION1)> execute 'insert into newtable(newid, newname)
values(?,?)' using src@connection0;
1 row inserted/updated/deleted
1 row inserted/updated/deleted
1 row inserted/updated/deleted
splice(CONNECTION1)> commit;
splice(CONNECTION1)> select * from newtable;
NEWID | NEWNAME
```

- 10 |TEN 20 |TWENTY 30 |THIRTY
- 3 rows selected splice(CONNECTION1)> show connections; CONNECTION0 jdbc:splice://abc:1527/splicedb CONNECTION1* jdbc:splice://xyz:1527/splicedb splice(CONNECTION1)> disconnect connection0; splice>

Explain Plan Command

The explain command displays the execution plan for a statement without actually executing the statement; it parses and optimizes the SQL, then presents its execution plan.

You can use this to tune a query for improved performance.

Syntax

explain Statement

Statement

An SQL statement.

Usage

SQL Data Definition Language (DDL) statement have no known cost, and thus do not require optimization. Because of this, the explain command does not work with DDL statements; attempting to explain a DDL statement such as CREATE TABLE will generate a syntax error.

For more information about using the explain command, including a number of annotated examples, see Explain Plan (page 0).

Examples

splice> explain select * from t t1 where t1.i < (select max(i) from t t1);

The Explain Plan (page 0) topic contains a number of examples that are described in detail.

Export Command

The export command exports the results of an SQL query to a CSV (comma separated value) file.

Syntax

```
EXPORT ( exportPath, compression, replicationCount, fileEncoding, fieldSeparator, quoteCharacter ) <SQL_QUERY>;
```

exportPath

The directory in which you want the export file(s) written.

compress

Whether or not to compress the exported files. You can specify one of the following values:

Value	Description
true	The exported files are compressed using deflate/gzip.
false	Exported files are not compressed.

replicationCount

The file system block replication count to use for the exported CSV files.

You can specify any positive integer value. The default value is 1.

fileEncoding

The character set encoding to use for the exported CSV files.

You can specify any character set encoding that is supported by the Java Virtual Machine (JVM). The default encoding is UTF-8.

fieldSeparator

The character to use for separating fields in the exported CSV files.

The default separator character is the comma (,).

quoteCharacter

The character to use for quoting output in the exported CSV files.

The default quote character is the double quotation mark (").

Usage

The EXPORT command generates one or more CSV files and stores them in the directory that you specified in the exportPath parameter. More than one output file is generated to enhance the parallelism and performance of this operation.

If compression=true, then each of the generated files is named with this format:

If compression=false, then each of the generated files is named with this format:

The value of $\langle N \rangle$ is a random integer value.

Merging the Exported Files

You can copy all of the exported files into a single file on your local file system using the Hadoop FS command getmerge. The syntax for getmerge is:

hadoop fs -getmerge sourceDir localPath

Use the *exportPath* directory as the value of sourceDir to copy all of the exported CSV files to your *localPath*.

For more information about the getmerge command, see http://hadoop-project-dist/hadoop-common/FileSystemShell.html#getmerge. (http://hadoop-project-dist/hadoop-common/FileSystemShell.html#getmerge)

Examples

```
-- This example uses all default options:

splice> EXPORT('/my/export/dir', false, null, null, null, null)

SELECT a,b,sqrt(c) FROM t1 join t2 on t1.a=t2.a;

-- This example explicitly specifies options:

splice> EXPORT('/my/export/dir', false, 3, 'utf-8', '|', ';')

SELECT a,b,sqrt(c) FROM t1 join t2 on t1.a=t2.a;
```

Prepare Command

The prepare command creates a java.sql.PreparedStatement using the value of the specified SQL command *String*, and assigns an identifier to the prepared statement so that other splice> commands can use the statement.

If a prepared statement with the specified *Identifier* name already exists in the command interpreter, an error is returned, and the previous prepared statement is left unchanged. If there are any errors in preparing the statement, no prepared statement is created.

If the *Identifier* specifies a connection Name, the statement is prepared on the specified connection.

Syntax

PREPARE Identifier AS String

Identifier

The identifier to assign to the prepared statement.

String

The command string to prepare.

Examples

Release Savepoint Command

The release savepoint command issues a java.sql.Connection.releaseSavepoint request, which releases a savepoint within the current transaction. Once a savepoint has been released, attempting to reference it in a rollback operation will cause an SQLException to be thrown.

When you commit a transaction, any savepoints created in that transaction are automatically released and invalidated when the transaction is committed or the entire transaction is rolled back.

NOTE: When you rollback a transaction to a savepoint, that savepoint and any others created after it within the transaction are automatically released.

Syntax

release savepoint identifier;

identifier

The name of the savepoint to release.

Examples

Example

First we'll create a table, turn autocommit off, and insert some data into the table. We then create a savepoint, and verify the contents of our table:

Next we add new values to the table and again verify its contents:

Now we release our original savepoint, insert a few more values, and create a new savepoint, savept2.

We again insert data into the table, display its contents, and then do a rollback:

```
splice> INSERT INTO myTbl VALUES 8,9;
2 rows inserted/updated/deleted
splice> SELECT * FROM myTbl;
Ι
2
3
4
5
6
7
8
9
9 rows selected
splice> ROLLBACK TO SAVEPOINT savept1;
ERROR 3B001: Savepoint SAVEPT1 does not exist or is not active in the current t
ransaction.
splice> ROLLBACK TO SAVEPOINT savept2;
0 rows inserted/updated/deleted
splice> SELECT * FROM myTbl;
1
2
3
4
5
6
7
7 rows selected
```

And finally, we commit the transaction:

COMMIT;

See Also

- » savepoint (page 46) command
- » rollback to savepoint (page 43) command
- >> The <u>Running Transactions (page 0)</u> topic contains includes a discussion of using savepoints.

Remove Command

The remove command removes a previously prepared statement from the command line interpreter.

The statement is closed, releasing its database resources.

Syntax

REMOVE Identifier

Identifier

The name assigned to the prepared statement when it was prepared with the <u>Prepare (page 34)</u> statement.

Rollback Command

The rollback command issues a java.sql.Connection.rollback request, which rolls back (undoes) the currently active transaction and initiates a new transaction.

NOTE: You should only use this command when auto-commit mode is disabled.

Usage Notes

In contrast to the Rollback to Savepoint (page 43) command, the Rollback command aborts the current transaction and starts a new one.

```
splice> autocommit off;
splice> INSERT INTO menu VALUES ('dessert', 'rhubarb pie', 4);
1 row inserted/updated/deleted
splice> SELECT * from menu;
COURSE |ITEM
                          PRICE
entree |lamb chop
                       |14
dessert |creme brulee
                        |7
appetizer | baby greens
                         |7
dessert |rhubarb pie
                        |4
4 rows selected
splice> rollback;
splice> SELECT * FROM menu;
COURSE |ITEM
                          PRICE
                        |14
entree |lamb chop
dessert |creme brulee
                        |7
appetizer |baby greens
                         |7
3 rows selected
splice>
```

Rollback to Savepoint Command

The rollback to savepoint command issues a java.sql.Connection.rollback request, which has been overloaded to work with a savepoint within the current transaction.

NOTE: When you rollback a transaction to a savepoint, that savepoint and any others created after it within the transaction are automatically released.

Syntax

rollback to savepoint identifier;

identifier

The name of the savepoint to which the transaction should be rolled back: all savepoints up to and including this one are rolled back.

Usage Notes

In contrast to the Rollback (page 41) command, the Rollback to Savepoint command rolls back but of your work, but does not start a new transaction.

Examples

First we'll create a table, turn autocommit off, and insert some data into the table. We then create a savepoint, and verify the contents of our table:

Next we add new values to the table and again verify its contents:

Now we roll back to our savepoint, and verify that the rollback worked:

And finally, we commit the transaction:

```
COMMIT;
```

See Also

- » savepoint (page 46) command
- >> release savepoint (page 35) command
- >> The <u>Running Transactions (page 0)</u> topic contains includes a discussion of using savepoints.

Savepoint Command

The savepoint command issues a java.sql.Connection.setSavepoint request, which sets a savepoint within the current transaction.

Savepoints are only useful when autocommit is off.

NOTE: You can define multiple savepoints within a transaction.

Syntax

savepoint identifier;

identifier

An identifier name for the string.

Example

Example

First we'll create a table, turn autocommit off, and insert some data into the table. We then create a savepoint, and verify the contents of our table:

Next we add new values to the table and again verify its contents:

Now we roll back to our savepoint, and verify that the rollback worked:

And finally, we commit the transaction:

```
COMMIT;
```

See Also

- >> release savepoint (page 35) command
- >> rollback to savepoint (page 43) command
- >> The <u>Running Transactions (page 0)</u> topic contains includes a discussion of using savepoints.

Connect Command

The connect command connects to the database specified by ConnectionURLString. It connects by issuing a getConnection request with the specified URL, using java.sql.DriverManager or javax.sql.DataSource to set the current connection to that URL.

Syntax

CONNECT ConnectionURLString [AS Identifier]

ConnectionURLString

The URL of the database. Note that this URL typically includes connection parameters such as user name, password, or security options.

Identifier

The optional name that you want to assign to the connection.

If the connection succeeds, the connection becomes the current one and all further commands are processed against the new, current connection.

Example 1: Connecting on a Cluster

If you are running Splice Machine on a cluster, connect from a machine that is NOT running an HBase RegionServer and specify the IP address of a regionServer node, e.g. 10.1.1.110.

```
splice> connect 'jdbc:splice://regionServer:1527/splicedb';
```

This example includes a user ID and password in the connection URL string:

```
splice> connect 'jdbc:splice://1.2.3.456:1527/splicedb;user=splice;password=admi n';
```

And this example includes specifies that SSL peer authentication will be enabled for the connection:

splice> connect 'jdbc:splice://1.2.3.456:1527/splicedb;user=splice;password=admin;ssl=peerAuthentication';

NOTE: You can only connect with SSL/TLS if your administrator has configured this capability for you.

Example 2: Connecting to the Standalone Version

If you're using the standalone version of Splice Machine, specify localhost instead.

splice> connect 'jdbc:splice://localhost:1527/splicedb';

Here is an example that includes a user ID and password in the connect string:

splice> connect 'jdbc:splice://localhost:1527/splicedb;user=joey;password=bossma n';

Describe Command

The describe command displays a description of the specified table or view.

Syntax

DESCRIBE { table-Name | view-Name }

tableName

The name of the table whose description you want to see.

viewName

The name of the view whose description you want to see.

Results

The describe command results contains the following columns:

Column Name	Description
COLUMN_NAME	The name of the column
TYPE_NAME	The data type of the column
DECIMAL_DIGITS	The number of fractional digits
NUM_PREC_RADIX	The radix, which is typically either 10 or 2
COLUMN_SIZE	The column size:
	For char or date types, this is the maximum number of characters
	For numeric or decimal types, this is the precision
COLUMN_DEF	The default value for the column
CHAR_OCTE	Maximum number of bytes in the column

Column Name	Description
IS_NULL	Whether (YES) or not (NO) the column can contain null values

Examples

splice> describe T_DETAIL; COLUMN NAME |TYPE NAME|DEC |NUM |COLUM |COLUMN D EF|CHAR_OCTE |IS_NULL TRANSACTION HEADER KEY | BIGINT | 0 | 10 | 19 | NULL NUL L NO TRANSACTION DETAIL KEY |BIGINT |0 |10 |19 |NULL NUL NO |BIGINT |0 |10 |19 |NULL CUSTOMER_MASTER_ID ES TRANSACTION DT | DATE | 0 | 10 | 10 | NULL | NULL | |NO ORIGINAL_SKU_CATEGORY_ID | INTEGER | 0 | 10 | 10 | NULL NUL L **YES** 5 rows selected

Disconnect Command

The disconnect command disconnects from a database. It issues a java.sql.Connection.close request for the current connection, or for the connection(s) specified on the command line.

Note that disconnecting from a database does not stop the command line interface or shut down Splice Machine. You can use the <u>exit (page 55)</u> command to close out of the command line interface.

Syntax

DISCONNECT [ALL | CURRENT | connectionIdentifier]

ALL

All known connections are closed; as a result, there will not be a current connection.

CURRENT

The current connection is closed. This is the default behavior.

connectionIdentifier

The name of the connection to close; this must be same identifier assigned when the connection was opened with a <u>Connect (page 49)</u> command.

```
splice> connect 'jdbc:splice://xyz:1527/splicedb';
splice> -- we create a new table in splicedb:
CREATE TABLE menu(course CHAR(10), ITEM char(20), PRICE integer);
0 rows inserted/updated/deleted
splice> disconnect;
splice>
```

ElapsedTime Command

The elapsedtime command enables or disables having the command line interface display the amount of time required for a command to complete its execution.

Syntax

```
ELAPSEDTIME { ON | OFF }
```

ON

Enables display of the elapsed time by the command line interface. When this is enabled, you'll see how much time elapsed during execution of the command line.

OFF

Disables display of the elapsed time.

```
splice> elapsedtime on;
splice> VALUES current_date;
1
------
2014-06-24
ELAPSED TIME = 2134 milliseconds
splice>
```

Exit Command

The exit or quit command causes the command line interface to exit. Issuing this command from within a command file causes the outermost input loop to halt.

Syntax

EXIT

Examples

splice> exit;

Help Command

The help command displays a list of the available splice commands.

Syntax

HELP

```
splice> help;
Supported commands include:
 CONNECT 'url for database' [ PROTOCOL namedProtocol ] [ AS connectionNa
me ];
                 -- connects to database URL
                 -- and may assign identifier
 AUTOCOMMIT [ON | OFF ]; -- sets autocommit mode for the connection
 SHOW SCHEMAS;
                           -- lists all schemas in the current database
 SHOW [ TABLES | VIEWS | PROCEDURES | FUNCTIONS | SYNONYMS] { I
N schema \;
                 -- lists tables, views, procedures, functions or synonyms
 SHOW INDEXES { IN schema | FROM table };
                 -- lists indexes in a schema, or for a table
 SHOW ROLES:
                          -- lists all defined roles in the database,
                 -- sorted
 SHOW SETTABLE ROLES; -- lists the roles which can be set for the
                 -- current connection, sorted
 DESCRIBE name:
                          -- lists columns in the named table
 COMMIT;
                     -- commits the current transaction
 ROLLBACK:
                         -- rolls back the current transaction
 PREPARE name AS 'SQL text'; -- prepares the SQL text
 EXECUTE { name | 'SQL text' } [ USING { name | 'SQL text' } ];
                 -- executes the statement with parameter
                 -- values from the USING result set row
                          -- removes the named previously prepared statement
 REMOVE name;
                     -- run commands from the named file
 RUN 'filename';
 ELAPSEDTIME [ON | OFF ]; -- sets elapsed time mode for splice
 MAXIMUMDISPLAYWIDTH integerValue;
                 -- sets the maximum display width for
                 -- each column to integerValue
 EXIT:
                    -- exits splice
```

HELP; -- shows this message

Any unrecognized commands are treated as potential SQL commands and execute d directly.

splice>

MaximumDisplayWidth Command

The maximumdisplaywidth command sets the largest display width, in characters, for displayed columns in the command line interpreter.

This is generally used to increase the default value in order to display large blocks of text.

Syntax

MAXIMUMDISPLAYWIDTH integer_value

integer_value

The maximum width of each column that is displayed by the command line intepreter.

Set this value to 0 to display the entire content of each column.

```
splice> maximumdisplaywidth 3;
splice> VALUES 'NOW IS THE TIME!';

1
---
NOW
splice> maximumdisplaywidth 30;
splice> VALUES 'NOW IS THE TIME!';

1
------
NOW IS THE TIME!
```

Run Command

The run command redirects the command line interpreter to read and process commands from the specified file. This continues until the end of the file is reached, or an <u>exit (page 55)</u> command is executed. Note that the file *can* contain run commands.

NOTE: You can specify a file that is in the directory where you are running the command, or you can include the full file path so that the run command can find it.

The command line interpreter prints out the statements in the file as it executes them.

Syntax

RUN String

String

The name of the file containing commands to execute.

```
splice> run 'setupMenuConn.spl';
splice> -- this is setupMenuConn.spl
-- splice displays its contents as it processes file
splice> connect 'jdbc:splice://xyz:1527/splicedb';
splice> autocommit off;
splice> -- this is the end of setupMenuConn.spl
-- there is now a connection to splicedb on xyz and no autocommit.
-- input will now resume from the previous source.
;
splice>
```

Set Connection Command

The <u>set connection</u> command allows you to specify which connection is the current connection, when you have more than one connection open.

NOTE: If the specified connection does not exist, an error results, and the current connection is unchanged.

Syntax

SET CONNECTION Identifier

Identifier

The name of the connection that you want to be the current connection.

```
splice> connect 'jdbc:splice://abc:1527/splicedb;user=splice;password=admin' as sa
mple1;
splice> connect 'jdbc:splice://xyz:1527/splicedb' as sample2;
splice (NEWDB)> show connections;
SAMPLE1 - jdbc:splice://abc:1527/splicedb
SAMPLE2* - jdbc:splice://xyz:1527/splicedb
* = current connection
splice(SAMPLE2)> set connection sample1;
splice(SAMPLE1)> disconnect all;
splice>
```

Show Connections

The show connections command displays a list of connection names and the URLs used to connect to them. The name of the current connection is marked with a trailing asterisk (*).

Syntax

SHOW CONNECTIONS

```
splice> connect 'jdbc:splice://abc:1527/splicedb' as sample1;
splice> connect 'jdbc:splice://xyz:1527/splicedb' as sample2;
splice (NEWDB)> show connections;
SAMPLE1 - jdbc:splice://abc:1527/splicedb
SAMPLE2* - jdbc:splice://xyz:1527/splicedb
* = current connection
splice(NEWDB)>
```

Show Functions

The show functions command displays all of the functions in the database, or the names of the functions in the specified schema.

Syntax

SHOW FUNCTIONS [IN schemaName]

schemaName

If you supply a schema name, only the functions in that schema are displayed; otherwise, all functions in the database are displayed.

Results

The show functions command results contains the following columns:

Column Name	Description
FUNCTION_SCHEMA	The name of the function's schema
FUNCTION_NAME	The name of the function
REMARKS	Any remarks that have been stored for the function

Examples

splice> CREATE FUNCTION TO DEGREES (RADIANS DOUBLE)

- > RETURNS DOUBLE
- > PARAMETER STYLE JAVA
- > NO SQL LANGUAGE JAVA
- > EXTERNAL NAME 'java.lang.Math.toDegrees';

0 rows inserted/updated/deleted

splice> show functions in splice;

FUNCTION SCHEM|FUNCTION NAME |REMARKS

SPLICE |TO_DEGREES | java.lang.Math.toDegrees

1 row selected

Show Indexes

The show indexes command displays all of the indexes in the database, the indexes in the specified schema, or the indexes on the specified table.

Syntax

SHOW INDEXES [IN schemaName | FROM tableName]

schemaName

If you supply a schema name, only the indexes in that schema are displayed.

tableName

If you supply a table name, only the indexes on that table are displayed.

Results

The show indexes command results contains the following columns:

Column Name	Description
TABLE_NAME	The name of the table.
INDEX_NAME	The name of the index.
COLUMN_NAME	The name of the column.
ORDINAL	The position of the column in the index.
NON_UNIQUE	Whether this is a unique or non-unique index.
ТҮРЕ	The index type
ASC_	Indicates if this is an ascending (A) or descending (D) index.
CONGLOM_NO	The conglomerate number, which points to the corresponding table in HBase.

```
splice> show indexes from my_table;
TABLE NAME |INDEX NAME
                               |COLUMN NAME |ORDINAL&|NO
N UNIQUE|TYPE |ASC&|CONGLOM NO
MY TABLE
                      ID
                                          |BTREE|A |1937
             |I1
                               |1
                                   true
MY TABLE
             |I1
                                   |2
                                              |BTREE|A |1937
                      STATE CD
MY TABLE
             I1
                      |CITY
                                |3
                                    true
                                           BTREE|A | 1937
MY TABLE
             |I2
                      ID
                                          |BTREE|D |1953
                               |1
                                   true
MY TABLE
             |I2
                      STATE CD
                                   |2
                                              |BTREE|D |1953
                                        true
MY TABLE
             |I2
                      CITY
                               |3
                                    true
                                           |BTREE|D |1953
MY TABLE
             |I3
                      ID
                               |1
                                          |BTREE|D |1969
                                   true
                      STATE CD
MY TABLE
             I3
                                   |2
                                               |BTREE|A |1969
                                        true
MY TABLE
             |I3
                      CITY
                                     true
                                           |BTREE|D |1969
MY TABLE
             |I4
                      LATITUDE
                                   |1
                                        true
                                              |BTREE|D |1985
MY TABLE
             |I4
                      STATE CD
                                   |2
                                              |BTREE|A |1985
                                        true
                      ID
MY TABLE
             |I4
                               |3
                                   true
                                          |BTREE|A |1985
MY TABLE
                                          |BTREE|A |2001
             I5
                      ID
                               |1
                                   true
MY TABLE
             I5
                      ID
                               |2
                                   true
                                          |BTREE|D |2001
14 rows selected
splice>
```

Show PrimaryKeys

The show primarykeys command displays all the primary keys in the specified table.

Syntax

SHOW PRIMARYKEYS FROM schemaName.tableName

schemaName

The schema name.

tableName

The table name.

Results

The show primary keys command results contains the following columns:

Column Name	Description
TABLE_NAME	The name of the table
COLUMN_NAME	The name of the column
KEY_SEQ	The order of the column within the primary key
PK_NAME	The unique name of the constraint

Show Procedures

The show procedures command displays all of the procedures that have been created with the create procedure statement in the database or specified schema.

Syntax

SHOW PROCEDURES [IN schemaName]

schemaName

If you supply a schema name, only the procedures in that schema are displayed; otherwise, all procedures in the database are displayed.

Results

The show procedures command results contains the following columns:

Column Name	Description
PROCEDURE_SCHEMA	The name of the procedure's schema
PROCEDURE_NAME	The name of the procedure
REMARKS	Any remarks that have been stored for the procedure

-	cedures in syscs_util;	
_	CHEM PROCEDURE_NAME 	REMARKS
	SCHEMA_STATISTICS	_
	COLLECT_TABLE_STATISTICS	
e	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
SYSCS_UTIL	DISABLE_COLUMN_STATISTIC	CS com.splicemach
ine		· · · · · · · · · · · · · · · ·
SYSCS_UTIL	DROP_SCHEMA_STATISTICS	com.splicemachin
e	<u></u>	• • • • • • • • • • • • • • • • • • •
SYSCS UTIL	DROP_TABLE_STATISTICS	com.splicemachine.
SYSCS_UTIL	ENABLE_COLUMN_STATISTIC	CS com.splicemachi
ne	· – –	1 1
SYSCS_UTIL	GET_ACTIVATION	com.splicemachine
SYSCS UTIL	IMPORT_DATA	com.splicemachine
SYSCS_UTIL	SYSCS BACKUP DATABASE	com.splicemachin
e	· – –	1
SYSCS_UTIL	SYSCS CANCEL BACKUP	com.splicemachine.
-	' – –	, 1
SYSCS_UTIL	SYSCS_CANCEL_DAILY_BACK	KUP com.splicemac
hine		
SYSCS_UTIL	SYSCS_COMMIT_CHILD_TRAN	NSACTION com.splice
machine		
SYSCS_UTIL	SYSCS_CREATE_USER	com.splicemachine
SYSCS_UTIL	SYSCS_DELETE_BACKUP	com.splicemachine.
SYSCS_UTIL	SYSCS_DELETE_OLD_BACKUI	PS com.splicemach
ine		· -
SYSCS_UTIL	SYSCS_DROP_USER	com.splicemachine
SYSCS_UTIL	SYSCS_ELEVATE_TRANSACTI	ON com.splicemac
hine		
SYSCS_UTIL	SYSCS_EMPTY_GLOBAL_STAT	ΓΕΜΕΝΤ_CACHE co
m.splicemachine.		
SYSCS_UTIL	SYSCS_EMPTY_STATEMENT_G	CACHE com.splice
machine		
SYSCS_UTIL	$ SYSCS_ENABLE_ENTERPRISE $	com.splicemachin
e		

SYSCS_UTIL SYSCS_FLUSH_TABLE com.splicemachine
SYSCS_UTIL SYSCS_GET_ACTIVE_SERVERS com.splicemachi
ne
SYSCS_UTIL SYSCS_GET_ACTIVE_TRANSACTION_IDS com.splic
emachine
SYSCS_UTIL SYSCS_GET_ALL_PROPERTIES com.splicemachin
e
SYSCS_UTIL SYSCS_GET_AUTO_INCREMENT_ROW_LOCATIONS com.splicemachine
-
SYSCS_UTIL SYSCS_GET_CURRENT_TRANSACTION com.splice machine
SYSCS_UTIL SYSCS_GET_GLOBAL_DATABASE_PROPERTY com.s
plicemachine
SYSCS_UTIL SYSCS_GET_LOGGERS com.splicemachine
SYSCS_UTIL SYSCS_GET_LOGGER_LEVEL com.splicemachin
e
SYSCS_UTIL SYSCS_GET_REGION_SERVER_CONFIG_INFO com.spl
icemachine
SYSCS_UTIL SYSCS_GET_REGION_SERVER_STATS_INFO com.spli
cemachine
SYSCS_UTIL SYSCS_GET_REQUESTS com.splicemachine
SYSCS_UTIL SYSCS_GET_SCHEMA_INFO com.splicemachin
e
SYSCS_UTIL SYSCS_GET_STORED_STATEMENT_PLAN_INFO co
m.splicemachine
SYSCS_UTIL SYSCS_GET_TIMESTAMP_GENERATOR_INFO com.sp
licemachine
SYSCS_UTIL SYSCS_GET_TIMESTAMP_REQUEST_INFO com.splic emachine
SYSCS_UTIL SYSCS_GET_VERSION_INFO com.splicemachin
e
SYSCS_UTIL SYSCS_GET_WRITE_INTAKE_INFO com.splicemac
hine
SYSCS UTIL SYSCS INVALIDATE STORED STATEMENTS com.sp
licemachine
SYSCS_UTIL SYSCS_KILL_STALE_TRANSACTIONS com.splicem
achine
SYSCS_UTIL SYSCS_KILL_TRANSACTION com.splicemachin

e		
SYSCS UTIL	SYSCS_MODIFY_PASSWORD	com.splicemachin
e		
SYSCS_UTIL	SYSCS_PERFORM_MAJOR_COMPACT	ION_ON_SCHEM
A com.splicemac	chine	
SYSCS_UTIL	SYSCS_PERFORM_MAJOR_COMPACT	ION_ON_TABLE c
om.splicemachine	e	
SYSCS_UTIL	SYSCS_RECOMPILE_INVALID_STORE	ED_STATEMENTS c
om.splicemachine	e	
SYSCS_UTIL	SYSCS_REFRESH_EXTERNAL_TABLE	com.splicem
achine		
SYSCS_UTIL	SYSCS_RELOAD_SECURITY_POLICY	com.splicem
achine		
SYSCS_UTIL	SYSCS_RESET_PASSWORD	com.splicemachin
e		
SYSCS_UTIL	SYSCS_RESTORE_DATABASE	com.splicemachin
e		
SYSCS_UTIL	SYSCS_RESTORE_DATABASE_OWNE	R com.splice
machine	lavaga agyeriye bayya bagyar	1.
SYSCS_UTIL	SYSCS_SCHEDULE_DAILY_BACKUP	com.splicem
achine	IGVICCO GET CLODAL DATADAGE DD	ODEDTY
SYSCS_UTIL	SYSCS_SET_GLOBAL_DATABASE_PR	OPERTY com.s
plicemachine	CVCCC CET LOCCED LEVEL	المراد وسدو والمراد
SYSCS_UTIL e	SYSCS_SET_LOGGER_LEVEL	com.splicemachin
SYSCS_UTIL	SYSCS_SET_USER_ACCESS	com.splicemachin
e	313C3_3E1_03ER_ACCESS	com.spheemaciiii
SYSCS_UTIL	SYSCS_SPLIT_REGION_AT_POINTS	com.splicemac
hine		com.spireemae
	SYSCS_SPLIT_TABLE cor	n.splicemachine
SYSCS UTIL	SYSCS SPLIT TABLE AT POINTS	com.splicemach
ine		1
SYSCS UTIL	SYSCS SPLIT TABLE EVENLY	com.splicemachi
ne		, ,
SYSCS_UTIL	SYSCS_START_CHILD_TRANSACTION	N com.splice
machine		_
SYSCS_UTIL	SYSCS_UPDATE_ALL_SYSTEM_PROC	EDURES com.s
plicemachine		

SYSCS_UTIL $|SYSCS_UPDATE_METADATA_STORED_STATEMENTS$ com.splicemachine.... |com.splicem SYSCS UTIL |SYSCS_UPDATE_SCHEMA_OWNER achine. ... SYSCS_UTIL |SYSCS_UPDATE_SYSTEM_PROCEDURE com.splice machine. ... SYSCS_UTIL |com.splicemachin |UPSERT_DATA_FROM_FILE e. ... SYSCS_UTIL com.splicemachine. ... **|VACUUM** 66 rows selected

Show Roles

The show roles command a sorted list of all of the roles defined in the database.

Syntax

SHOW ROLES

Examples

splice> create role testRole;
0 rows inserted/updated/deleted
splice> show roles;

ROLEID

TESTROLE

1 row selected

Show Schemas

The show schemas command displays all of the schemas in the current connection.

Syntax

SHOW SCHEMAS

Examples

SYSSTAT

11 rows selected

Show Synonyms

The show synonyms command displays all of the synonyms that have been created with the CREATE SYNONYM (page 0) statement in the database or specified schema.

Syntax

SHOW SYNONYMS [IN schemaName]

schemaName

If you supply a schema name, only the synonyms in that schema are displayed; otherwise, all synonyms in the database are displayed.

Results

The show synonyms command results contains the following columns:

Column Name	Description
TABLE_SCHEMA	The name of the synonym's schema
TABLE_NAME	The name of the table
CONGLOM_ID	The conglomerate number, which points to the corresponding table in HBase
REMARKS	Any remarks associated with the table

Show Tables

The show tables command displays all of the tables in the current or specified schema.

schemaName

If you supply a schema name, only the tables in that schema are displayed; otherwise, the tables in the current schema are displayed.

Syntax

SHOW TABLES [IN schemaName]

Results

The show tables command results contains the following columns:

Column Name	Description
TABLE_SCHEMA	The name of the table's schema
TABLE_NAME	The name of the table
CONGLOM_ID	The conglomerate number, which points to the corresponding table in HBase
REMARKS	Any remarks associated with the table

```
splice> show tables;
TABLE SCHEM |TABLE NAME
                              |CONGLOM ID|REMARKS
SYS
       SYSALIASES
                      352
SYS
       SYSBACKUP
                       1040
SYS
       |SYSBACKUPFILESET |1056
SYS
       SYSBACKUPITEMS
                         |1136
SYS
       SYSBACKUPJOBS
                         |1200
SYS
                      368
       SYSCHECKS
SYS
                        |704
       SYSCOLPERMS
SYS
       SYSCOLUMNS
                        |64
SYS
                         |1216
       SYSCOLUMNSTATS
SYS
       |SYSCONGLOMERATES |80
SYS
       SYSCONSTRAINTS |320
SYS
       SYSDEPENDS
                       240
SYS
                     |256
       SYSFILES
SYS
       SYSFOREIGNKEYS
                         |288
SYS
                     |272
       SYSKEYS
SYS
                      |784
       SYSPERMS
SYS
       |SYSPHYSICALSTATS |1232
SYS
       SYSPRIMARYKEYS
                         |384
SYS
       SYSROLES
                      |736
SYS
       SYSROUTINEPERMS
                          |720
SYS
       SYSSCHEMAPERMS
                          |1392
SYS
                       |32
       SYSSCHEMAS
SYS
       SYSSEQUENCES
                        |752
SYS
       SYSSTATEMENTS
                         304
SYS
       SYSTABLEPERMS
                         |688
SYS
       SYSTABLES
                      |48
SYS
       SYSTABLESTATS
                         |1248
SYS
                       656
       SYSTRIGGERS
SYS
       SYSUSERS
                     |816
SYS
                      |336
       SYSVIEWS
SYSIBM
         |SYSDUMMY1
                         |1344
SPLICE
        MYTABLE
                       |1536 |
32 rows selected
```

1 row selected

Show Views

The show views command displays all of the views in the current or specified schema.

Syntax

SHOW VIEWS [IN schemaName]

schemaName

If you supply a schema name, only the views in that schema are displayed; otherwise, the views in the current schema are displayed.

Results

The show views command results contains the following columns:

Column Name	Description
TABLE_SCHEMA	The name of the table's schema
TABLE_NAME	The name of the table
CONGLOM_ID	The conglomerate number, which points to the corresponding table in HBase
REMARKS	Any remarks associated with the table

```
splice> show views;

TABLE_SCHEM |TABLE_NAME | CONGLOM_ID|REMARKS

SPLICE |GUITAR_BRANDS |4321 |

0 rows selected
```