# Snowflake MySQL Connector Load Validations

## Understanding connector status

Once the data source is added and mapped to the target database in Snowflake for replication, we need to add the required tables for the replications so that initial as well as incremental loads can be done.

-- Configuring replication

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-- Adding a data source for replication

CALL ADD\_DATA\_SOURCE('<data\_source\_name>', '<dest\_db>');

CALL SNFLK\_CONNECTOR\_FOR\_MYSQL.PUBLIC.ADD\_DATA\_SOURCE('MYSQLDS1', 'MYSQL\_SNFLK');

-- Adding source tables for replication

CALL ADD\_TABLES('<data\_source\_name>', '<schema\_name>', ['<table\_name1>', '<table\_name2>', ...]);

CALL SNFLK\_CONNECTOR\_FOR\_MYSQL.PUBLIC.ADD\_TABLES('MYSQLDS1', 'src\_database', ARRAY\_CONSTRUCT('test\_tbl2'));

The REPLICATION\_STATE view is crucial for monitoring the status of table replication. This process encompasses three distinct phases:

1. SCHEMA\_INTROSPECTION: Ensures that the schema of the source table is accurately replicated.
2. INITIAL\_LOAD: Transfers the existing data from the source table to the destination.
3. INCREMENTAL\_LOAD: Continuously replicates ongoing changes from the source.

Upon successful replication, the status display will resemble the following:

|  |  |  |  |
| --- | --- | --- | --- |
| REPLICATION\_PHASE | SCHEMA\_INTROSPECTION\_STATUS | SNAPSHOT\_REPLICATION\_STATUS | INCREMENTAL\_REPLICATION\_STATUS |
| INCREMENTAL\_LOAD | DONE | DONE | IN PROGRESS |

# SNAPSHOT\_REPLICATION VALIDATIONS

## INITIAL\_LOAD

The Source MySQL table has 3 rows initially which can be seen below.

A screenshot of a computer

Description automatically generated

The REPLICATION\_STATE view details can be seen below.

A screenshot of a computer

Description automatically generated

Once the INITIAL\_LOAD gets completed the phase switches to INCREMENTAL\_LOAD which denotes the agent is now monitoring the CDC at the source MySQL database table.

A screenshot of a computer

Description automatically generated

The INITIAL\_LOAD can be validated in Snowflake table as seen below.

A screenshot of a computer

Description automatically generated

## INCREMENTAL\_LOAD

To validate the INCREMENTAL\_LOAD, below are the changes applied to the source MySQL database which can be seen below.

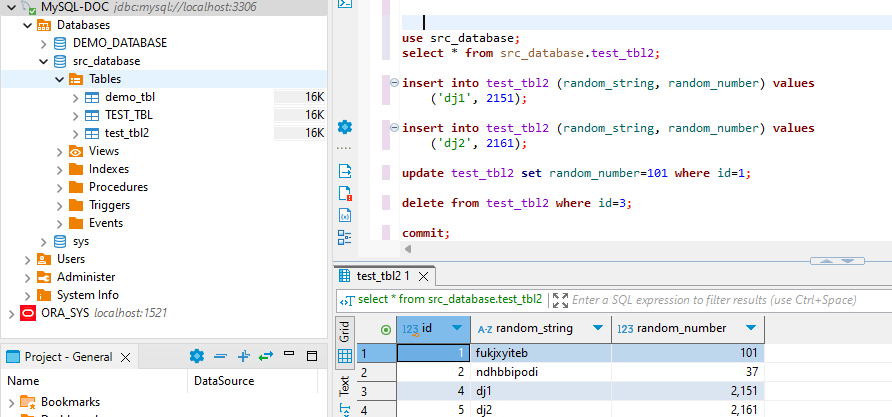
insert into test\_tbl2 (random\_string, random\_number) values ('dj1', 2151);

insert into test\_tbl2 (random\_string, random\_number) values ('dj2', 2161);

update test\_tbl2 set random\_number=101 where id=1;

delete from test\_tbl2 where id=3;

commit;



INCREMENTAL\_LOAD Validations in Snowflake

The inserts, updates and deletes(soft deletes) are captured in the target Snowflake Table as seen below.

A screenshot of a computer

Description automatically generated

## END