```
use role developer;
use database debadatta_mohanty_db;
use warehouse training_wh;
create transient schema training_schema_csvdataload;
use schema training_schema_csvdataload;
create table customer like training_schema_debadatta.customer;
select * from customer;
show file formats;
-- 1. Create File Format
create or replace FILE FORMAT CSV_INPUT_FORMAT TYPE = 'CSV' COMPRESSION = 'AUTO'
FIELD_DELIMITER = ',' RECORD_DELIMITER = '\n' SKIP_HEADER = 1
FIELD_OPTIONALLY_ENCLOSED_BY = ""' TRIM_SPACE = TRUE ERROR_ON_COLUMN_COUNT_MISMATCH
= FALSE ESCAPE = 'NONE' ESCAPE UNENCLOSED FIELD = '\134'
DATE FORMAT = 'AUTO' TIMESTAMP FORMAT = 'AUTO' NULL IF = ('\\N');
-- create a stage with the file format
create or replace stage CSV_INPUT_stage file_format = CSV_INPUT_FORMAT;
-- put data into internal named stage
--table stage
file://C:\Users\Snowflake1\Downloads\SnowflakeLabShare\_PM\Data\CSVData\customer\none\*.csv
```

```
@%CUSTOMER/csv AUTO_COMPRESS = FALSE SOURCE_COMPRESSION = NONE OVERWRITE= FALSE
PARALLEL =10;
--nmed internal stage
put
file://C:\Users\Snowflake1\Downloads\SnowflakeLabShare PM\Data\CSVData\customer\none\*.csv
@csv_input_stage/csv_input/customer/ AUTO_COMPRESS = TRUE SOURCE_COMPRESSION = NONE
OVERWRITE= FALSE PARALLEL =10;
*/
--put file://C:\SnowflakeLab\Data\CSV-Data-SnowflakeCOHORT\customer\none\*.csv
@csv_input_stage/csv_input/customer/ AUTO_COMPRESS = TRUE SOURCE_COMPRESSION = NONE
OVERWRITE= FALSE PARALLEL =10;
list @%CUSTOMER;
list @CSV_INPUT_stage;
--remove @CSV_INPUT_stage;
COPY INTO customer FROM '@csv_input_stage/csv_input/customer/' FILE_FORMAT =
CSV_INPUT_FORMAT
ON_ERROR = 'CONTINUE' PURGE = TRUE VALIDATION_MODE = RETURN_ALL_ERRORS;
COPY INTO customer FROM '@csv_input_stage/csv_input/customer/customer_0_1_0.csv.gz'
FILE_FORMAT = CSV_INPUT_FORMAT
ON_ERROR = 'CONTINUE' PURGE = FALSE;
select * from customer;
select * from table(validate(CUSTOMER, job id => '019d1123-0000-32fb-0000-c7c90003f1a6'));
```

```
select cus.$1 as ROW_ID
, cus.$2 as "CUSTOMER ADDRESS"
,cus.$3 as"MARKET SEGMENT"
,cus.$4 as "PHONE NUMBER"
,cus.$5 as "COMMENTS"
,cus.$6 as "CUSTOMER NAME"
,cus.$7 as "NATKEY"
,cus.$8 as "CUSTOMER KEY"
,cus.$9 "ACCOUNT BALANCE" from '@csv_input_stage/csv_input/customer/' cus;
select cus.$1 as ROW_ID
, cus.$2 as "CUSTOMER ADDRESS"
,cus.$3 as"MARKET SEGMENT"
,cus.$4 as "PHONE NUMBER"
cus.$5 as "COMMENTS",
,cus.$6 as "CUSTOMER NAME"
,cus.$7 as "NATKEY"
,cus.$8 as "CUSTOMER KEY"
,cus.$9 "ACCOUNT BALANCE" from
'@csv_input_stage/csv_input/customer_compressed/customer*.gz' cus;
select $1,$2,$3 from '@csv_input_stage/csv_input/customer_compressed/customer_0_0_0.csv.gz';
list @csv_input_stage;
select * from (
select cus.$1::number as ROW_ID
, cus.$2::VARCHAR as "CUSTOMER ADDRESS"
,cus.$3::VARCHAR as"MARKET SEGMENT"
```

```
,cus.$4::VARCHAR as "PHONE NUMBER"
,cus.$5::VARCHAR as "COMMENTS"
,cus.$6::VARCHAR as "CUSTOMER NAME"
,cus.$7::VARCHAR as "NATKEY"
,cus.$8::NUMBER as "CUSTOMER KEY"
cus.$9::FLOAT "ACCOUNT BALANCE" from
'@csv_input_stage/csv_input/customer/customer_0_1_0.csv.gz' cus
order by "CUSTOMER KEY";
create or replace view CUS_FILE_VIEW
as
(select cus.$1::number as ROW_ID
, cus.$2::VARCHAR as "CUSTOMER ADDRESS"
,cus.$3::VARCHAR as"MARKET SEGMENT"
,cus.$4::VARCHAR as "PHONE NUMBER"
,cus.$5::VARCHAR as "COMMENTS"
,cus.$6::VARCHAR as "CUSTOMER NAME"
,cus.$7::VARCHAR as "NATKEY"
,cus.$8::NUMBER as "CUSTOMER KEY"
,cus.$9::FLOAT as "ACCOUNT BALANCE" from '@CSV_INPUT_STAGE/csv_input/customer/' cus
);
select * from CUS_FILE_VIEW;
COPY INTO
customer(C_CUSTKEY,C_NAME,C_ADDRESS,C_NATIONKEY,C_PHONE,C_ACCTBAL,C_MKTSEGMENT,
C_COMMENT)
```

```
FROM (
select
cus.$8::NUMBER,cus.$6::VARCHAR,cus.$2::VARCHAR,cus.$7::VARCHAR,cus.$4::VARCHAR,cus.$9::FLOAT,
cus.$3::VARCHAR,cus.$5::VARCHAR
from '@csv_input_stage/csv_input/customer/' cus)
FILE_FORMAT = 'CSV_INPUT_FORMAT' ON_ERROR = 'CONTINUE' PURGE = FALSE;
select
cus.$8::NUMBER,cus.$6::VARCHAR,cus.$2::VARCHAR,cus.$7::VARCHAR,cus.$4::VARCHAR,cus.$9::FLOAT,
cus.$3::VARCHAR,cus.$5::VARCHAR
from '@csv_input_stage/csv_input/customer/' cus;
truncate table customer;
select count(*) from customer;
--working example
COPY INTO
customer(C_CUSTKEY,C_NAME,C_ADDRESS,C_NATIONKEY,C_PHONE,C_ACCTBAL,C_MKTSEGMENT,
C_COMMENT)
FROM (select
cus.$8::NUMBER,cus.$6::VARCHAR,cus.$2::VARCHAR,cus.$7::VARCHAR,cus.$4::VARCHAR,cus.$9::FLOAT,
cus.$3::VARCHAR,cus.$5::VARCHAR from '@csv_input_stage/csv_input/customer/' cus)
FILE_FORMAT = 'CSV_INPUT_FORMAT' ON_ERROR = 'CONTINUE' PURGE = FALSE;
select cus.$8::NUMBER
cus.$6::VARCHAR,cus.$2::VARCHAR,cus.$7::VARCHAR,cus.$4::VARCHAR,cus.$9::FLOAT,cus.$3::VARCHA,
R,cus.$5::VARCHAR
from '@csv_input_stage/csv_input/customer/' cus;
list @csv_input_stage;
```

```
/* *******this does not work as validation mode does not work for transformaton
***********
COPY INTO
customer(C CUSTKEY,C NAME,C ADDRESS,C NATIONKEY,C PHONE,C ACCTBAL,C MKTSEGMENT,
C_COMMENT)
FROM (select
cus.$8::NUMBER,cus.$6::VARCHAR,cus.$2::VARCHAR,cus.$7::VARCHAR,cus.$4::VARCHAR,cus.$9::FLOAT,
  cus.$3::VARCHAR,cus.$5::VARCHAR
  from '@csv_input_stage/csv_input/customer/' cus)
FILE FORMAT = 'CSV INPUT FORMAT' ON ERROR = 'CONTINUE' PURGE = FALSE VALIDATION MODE =
RETURN ALL ERRORS;
/* you can use merge command on the next set of files, which might have duplicates */
merge into customer cc using CUS_FILE_VIEW cv
  on cc.C CUSTKEY = cv. "CUSTOMER KEY"
 when not matched then
   insert (C_CUSTKEY,C_NAME,C_ADDRESS,C_NATIONKEY,C_PHONE,C_ACCTBAL,C_MKTSEGMENT,
C_COMMENT)
  values ( cv. "CUSTOMER KEY",cv. "CUSTOMER NAME",cv. "CUSTOMER
ADDRESS",cv."NATKEY",cv."PHONE NUMBER",cv."ACCOUNT BALANCE",cv."MARKET
SEGMENT",cv."COMMENTS")
 when matched then
 update set cc.C ACCTBAL = cv."ACCOUNT BALANCE";
select * from table(information schema.copy history(table name=>'CUSTOMER', start time=>
dateadd(hours, -1, current_timestamp())));
```

```
-- Load Data from
\\snowflake3-0\Users\Snowflake43\C:\SnowflakeLab\Data\CSV-Data-
SnowflakeCOHORT\customer\none
create or replace FILE FORMAT CSV_INPUT_FORMAT_SUPPLIER TYPE = 'CSV'
COMPRESSION = 'AUTO'
FIELD_DELIMITER = '@~'
RECORD_DELIMITER = '\n'
SKIP_HEADER = 1
FIELD_OPTIONALLY_ENCLOSED_BY = ""
TRIM_SPACE = TRUE
ERROR_ON_COLUMN_COUNT_MISMATCH = FALSE
ESCAPE = 'NONE'
ESCAPE_UNENCLOSED_FIELD = '\134'
DATE_FORMAT = 'AUTO'
TIMESTAMP_FORMAT = 'AUTO'
NULL_IF = ('\N');
create or replace stage CSV_INPUT_stage_supplier file_format = CSV_INPUT_FORMAT_SUPPLIER;
select count(*) from supplier;
DESC TABLE supplier;
list @csv_input_stage_supplier;
```

```
COPY INTO supplier(S_SUPPKEY,S_NAME,S_ADDRESS,S_NATIONKEY,S_PHONE,S_ACCTBAL,
S_COMMENT)
FROM (select
   sup.$7::NUMBER,
   sup.$2::VARCHAR,
   sup.$5::VARCHAR,
   sup.$8::NUMBER,
   sup.$4::VARCHAR,
   sup.$3::FLOAT,
   sup.$6::VARCHAR
   from '@csv_input_stage_supplier/csv_input/supplier/' sup)
FILE_FORMAT = 'CSV_INPUT_FORMAT_SUPPLIER' ON_ERROR = 'CONTINUE' PURGE = FALSE;
Select sup.$2::VARCHAR from '@csv_input_stage_supplier/csv_input/supplier/supplier_0_0_0.csv.gz'
sup;
list @csv_input_stage_supplier;
select count(*) from supplier;
select count(*) from training_schema_debadatta.supplier;
```