# STEP 1: Create Storage Integration in Snowflake

***Important: While creating the S3 bucket, uncheck the option "Block All Public Access".***

SQL Command:

CREATE STORAGE INTEGRATION uber\_intg

TYPE = EXTERNAL\_STAGE

ENABLED = TRUE

STORAGE\_PROVIDER = S3

STORAGE\_ALLOWED\_LOCATIONS = ('s3://bucketname/foldername /')

STORAGE\_AWS\_ROLE\_ARN = 'arn:aws:iam::xyz/name\_of\_role';

# *STEP 2: Set Up AWS IAM Role Trust Relationship*

***Notes: While creating the role in AWS IAM:***

* ***Trusted Entity Type: AWS Account***
* ***Tick the option: "Require external ID"***
* ***External ID: Use any secure number (e.g., "0000")***

**Run:**

DESC STORAGE INTEGRATION uber\_intg;

Use the values returned for:

1. STORAGE\_AWS\_IAM\_USER\_ARN: arn:aws:iam::xyzxyzxyz-s (This have to be placed in IAM ---> Role---> Role\_that \_you\_created---> Trust Relationship --->Edit Trust Policy ---> then paste this code in "AWS:"

2.. STORAGE\_AWS\_EXTERNAL\_ID: CWxyzxyzxyzxyzrm/a2g= (similarly paste this code in "sts:ExternalId":

***Then click ---> (Update Policy) and you finished.***

***Update Trust Policy example:***

"Effect": "Allow",

"Principal": { "AWS": "arn:aws:iam::xyzxyzxxyz0000-s" },

"Action": "sts:AssumeRole",

"Condition": {

"StringEquals": {

"sts:ExternalId": ": CWxyzxyzxyzxyzrm/a2g="

}

}

# STEP 3: Create External Stage in Snowflake

SQL Command:

CREATE STAGE uber\_backend

URL = 's3:// bucketname/foldername /' STORAGE\_INTEGRATION = uber\_intg;

**To preview**:

LS @uber\_backend;

# SELECT $1, $2, $3 FROM @uber\_backend;

# STEP 4: Create File Format, Table & Load Data

1. **Create File Format:**

CREATE OR REPLACE FILE FORMAT uber\_ffs

TYPE = 'CSV'

FIELD\_DELIMITER = ','

RECORD\_DELIMITER = '\n'

SKIP\_HEADER = 1

DATE\_FORMAT = 'DD-MM-YYYY';

1. **Create Empty Table:**

CREATE TABLE uber\_trip\_table (

Location\_ID INT,

Location VARCHAR(50),

City VARCHAR(50)

);

***Note: Dimensions must be same with regards to name and datatype***.

1. **Load Data from External Stage**:

COPY INTO uber\_trip\_table FROM @uber\_backend FILE\_FORMAT = uber\_ffs;

1. **Validate Load:**

SELECT \* FROM uber\_trip\_table;