

## Table design

### SRC\_VIDEOSTART

COLUMN_NAME	DATA_TYPE	DEFAULT_VALUE	NULLABLE	COMMENTS
DATETIME	VARCHAR(50)	NULL	Y	Loaded from src file
VIDEOTITLE	VARCHAR(200)	NULL	Y	Loaded from src file
EVENTS	VARCHAR(150)	NULL	Y	Loaded from src file

### STG\_VIDEOSTART

COLUMN_NAME	DATA_TYPE	DEFAULT_VALUE	NULLABLE	COMMENTS
DATETIME	VARCHAR(50)	NULL	N	Formatted from SRC_VIDEOSTART.DATETIME
PLATFORM	VARCHAR(200)	NULL	N	Derived from SRC_VIDEOSTART.VIDEOTITLE
SITE	VARCHAR(200)	NULL	N	Derived from SRC_VIDEOSTART.VIDEOTITLE
VIDEO	VARCHAR(200)	NULL	N	Derived from SRC_VIDEOSTART.VIDEOTITLE

### STG\_DATE

COLUMN_NAME	DATA_TYPE	DEFAULT_VALUE	NULLABLE	COMMENTS
DATETIME	INT	NULL	N	Formatted from STG_VIDEOSTART.DATETIME

### STG\_PLATFORM

COLUMN_NAME	DATA_TYPE	DEFAULT_VALUE	NULLABLE	COMMENTS
PLATFORM	VARCHAR(200)	NULL	N	Derived from STG_VIDEOSTART.PLATFORM

## STG\_SITE

COLUMN_NAME	DATA_TYPE	DEFAULT_VALUE	NULLABLE	COMMENTS
SITE	VARCHAR (200)	NULL	N	Derived from STG_VIDEOSTART.SITE

## STG\_VIDEO

COLUMN_NAME	DATA_TYPE	DEFAULT_VALUE	NULLABLE	COMMENTS
VIDEO	VARCHAR (200)	NULL	N	Derived from STG_VIDEOSTART.VIDEO

## DIM\_DATE

COLUMN_NAME	DATA_TYPE	DEFAULT_VALUE	NULLABLE	COMMENTS
DATETIME_SKEY	INT		N	Derived from STG_DATE.DATETIME

## DIM\_PLATFORM

COLUMN_NAME	DATA_TYPE	DEFAULT_VALUE	NULLABLE	COMMENTS
PLATFORM_SKEY	INT		N	
PLATFORM	VARCHAR (200)	NULL	N	Derived from STG_PLATFORM.PLATFORM

## DIM\_SITE

COLUMN_NAME	DATA_TYPE	DEFAULT_VALUE	NULLABLE	COMMENTS
SITE_SKEY	INT		N	
SITE	VARCHAR (200)	NULL	N	Derived from STG_SITE.SITE

## DIM\_VIDEO

COLUMN_NAME	DATA_TYPE	DEFAULT_VALUE	NULLABLE	COMMENTS
VIDEO_SKEY	INT		N	
VIDEO	VARCHAR (200)	NULL	N	Derived from STG_VIDEO.VIDEO

## FACT\_VIDEOSTART

COLUMN_NAME	DATA_TYPE	DEFAULT_VALUE	NULLABLE	COMMENTS
DATETIME_KEY	INT	NULL	N	Derived from DIM_DATE.DATETIME_KEY
PLATFORM_KEY	INT	NULL	N	Derived from DIM_PLATFORM.PLATFORM_KEY
SITE_KEY	INT	NULL	N	Derived from DIM_SITE.SITE_KEY
VIDEO_KEY	INT	NULL	N	Derived from DIM_VIDEO.VIDEO_KEY
DB_INSERT_DT	DATETIME	NULL	N	TIMESTAMP from the sys

## Process design

### 1. Use SnowSQL CLI to load raw VideoStarts file into SRC\_VIDEOSTART

#### a. Copy File to Stage

```
CREATE STAGE "MY_CSV_STAGE";  
put file://~/video_data.csv @my_csv_stage1 auto_compress=true;
```

#### b. Create File Format

```
CREATE OR Replace FILE FORMAT video_1 TYPE  
    = 'CSV'  
    COMPRESSION = 'GZIP'  
    FIELD_DELIMITER = ','  
    RECORD_DELIMITER = '\n'  
    SKIP_HEADER = 1  
    FIELD_OPTIONALLY_ENCLOSED_BY = '\"'  
    TRIM_SPACE = TRUE  
    ERROR_ON_COLUMN_COUNT_MISMATCH = false  
    DATE_FORMAT = 'AUTO'  
    TIMESTAMP_FORMAT = 'dd/mm/yyyy HH24:MI'  
    NULL_IF = ('NULL')  
    ESCAPE = '\\'  
    ;
```

#### c. Load Data

```
copy into SRC_VIDEOSTART  
    from @my_csv_stage/video_data.csv.gz  
    file_format = (format_name = video_1)  
    on_error = 'skip_file';
```

## **2. Clean data in Intermediate tables**

02\_Clean\_Stage\_Table.sql

## **3. Wash data in SRC\_VIDEOSTART and load into STG\_VIDEOSTART**

03\_Wash\_Data.sql

## **4. Populate STG\_DATE, STG\_PLATFORM, STG\_SITE and STG\_VIDEO**

04\_Populate\_Stage.sql

## **5. Insert staging data into dimension tables - DIM\_DATE, DIM\_PLATFORM, DIM\_SITE and DIM\_VIDEO**

05\_Insert\_Dim.sql

## **6. Use STG\_VIDEOSTART, DIM\_DATE, DIM\_PLATFORM, DIM\_SITE and DIM\_VIDEO to generate output data and append the data into fact table – FACT\_VIDEOSTART**

06\_Append\_Fact.sql

## Ongoing process workflow

