## Designing Advanced Data Architecture for Business Intelligence Mini Project IMDb Midterm Team Project

## Team 6:

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STAGING SCHEME

```
-- Table for staging.name.basics.tsv
CREATE OR REPLACE TABLE STAGING_NAME_BASICS (
  NCONST VARCHAR(25),
  PRIMARYNAME VARCHAR(200),
  BIRTHYEAR NUMERIC(4),
  DEATHYEAR NUMERIC(4),
  PRIMARYPROFESSION VARCHAR(200),
  KNOWNFORTITLES VARCHAR(200),
  DI_JOB_ID VARCHAR(50),
  DI_LOAD_DT DATE
);
-- Table for staging.title.akas.tsv
CREATE OR REPLACE TABLE STAGING TITLE AKAS (
  TITLEID VARCHAR(50),
  ORDERING INTEGER,
  TITLE VARCHAR(300),
  REGION VARCHAR(50),
  LANGUAGE VARCHAR(30),
  TYPES VARCHAR(20),
  ATTRIBUTES VARCHAR(100),
  ISORIGINALTITLE NUMERIC(2),
  DI_JOB_ID VARCHAR(50),
  DI_LOAD_DT DATE
);
-- Table for staging.title.basics.tsv
CREATE OR REPLACE TABLE STAGING TITLE BASICS (
  TCONST VARCHAR(25),
  TITLETYPE VARCHAR(50),
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PRIMARYTITLE VARCHAR(350),
  ORIGINALTITLE VARCHAR(350),
  ISADULT NUMERIC(2),
  STARTYEAR NUMERIC(4),
  ENDYEAR NUMERIC(4),
  RUNTIMEMINUTES NUMERIC(20),
  GENRES VARCHAR(50),
  DI_JOB_ID VARCHAR(50),
  DI_LOAD_DT DATE
);
-- Table for staging.title.ratings.tsv
CREATE OR REPLACE TABLE STAGING TITLE RATINGS (
  TCONST VARCHAR(20),
  AVERAGERATING FLOAT(10),
  NUMVOTES NUMERIC(15),
  DI_JOB_ID VARCHAR(50),
  DI LOAD DT DATE
);
-- Table for staging.title.episodes.tsv
CREATE OR REPLACE TABLE STAGING_TITLE_EPISODES (
  TCONST VARCHAR(20),
  PARENTTCONST VARCHAR(20),
  SEASONNUMBER NUMERIC(5),
  EPISODENUMBER NUMERIC(10),
  DI_JOB_ID VARCHAR(50),
  DI LOAD DT DATE
);
-- Table for staging.title.crew.tsv
CREATE OR REPLACE TABLE STAGING_TITLE_CREW (
  TCONST VARCHAR(25),
  DIRECTORS VARCHAR(500),
  WRITERS VARCHAR(500),
  DI_JOB_ID VARCHAR(50),
  DI_LOAD_DT DATE
);
-- Table for staging.title.principals.tsv
CREATE OR REPLACE TABLE STAGING TITLE PRINCIPALS (
  TCONST VARCHAR(25),
  ORDERING NUMERIC(5),
  NCONST VARCHAR(15),
```

```
CATEGORY VARCHAR(50),
 JOB VARCHAR(500),
 CHARACTERS VARCHAR(500),
 DI_JOB_ID VARCHAR(50),
 DI_LOAD_DT DATE
);
-- Table for staging.region_codes
CREATE OR REPLACE TABLE STAGING_REGION_CODES (
 REGION ABBR VARCHAR(5),
 REGION NAME VARCHAR(100),
 DI_JOB_ID VARCHAR(50),
 DI LOAD DT DATE
);
-- Table for staging.LANGUAGE_codes
CREATE OR REPLACE TABLE STAGING_LANGUAGE_CODES (
 LANGUAGE NAME VARCHAR(100),
 LANGUAGE_ABBR VARCHAR(5),
 DI JOB ID VARCHAR(50),
 DI LOAD DT DATE
);
DIMENSIONAL MODELING SCHEMA
-- ER/Studio Data Architect SQL Code Generation
-- Project: IMDB_Dimesional_Model.DM1
-- Date Created: Monday, March 10, 2025 23:28:06
-- Target DBMS: Snowflake
-- TABLE: BRIDGE_PERSONS_PROFESSION
USE SCHEMA GROUP_6_MIDTERM_PROJECT_EDW;
CREATE TABLE BRIDGE_PERSONS_PROFESSION(
 PERSON SK
                    NUMBER(20, 0) NOT NULL,
 PROFESSION SK
                      NUMBER(20, 0) NOT NULL,
```

```
IS_CURRENT
                   NUMBER(2, 0),
 START_DATE
                   DATE,
 END DATE
                  DATE.
 PEROSN_PROFESSION_DK  VARCHAR(50)
                                        NOT NULL,
                VARCHAR(50),
 JOB ID
 LOAD_DT
                 DATE,
 CONSTRAINT PK15 PRIMARY KEY (PERSON_SK, PROFESSION_SK)
-- TABLE: BRIDGE_TITLE_AKAS
CREATE TABLE BRIDGE_TITLE_AKAS(
               NUMBER(20, 0) NOT NULL,
 TITLE SK
 REGION_SK
                 NUMBER(20, 0) NOT NULL,
 LANGUAGE SK
                   NUMBER(20, 0) NOT NULL,
                VARCHAR(100),
 AKA TITLE
 IS_ORIGINAL_TITLE NUMBER(2, 0),
 CONSTRAINT PK13 PRIMARY KEY (TITLE_SK, REGION_SK, LANGUAGE_SK)
-- TABLE: BRIDGE_TITLE_GENRES
CREATE TABLE BRIDGE_TITLE_GENRES(
 TITLE SK NUMBER(20, 0) NOT NULL,
 GENRE_SK NUMBER(20, 0) NOT NULL,
 CONSTRAINT PK9 PRIMARY KEY (TITLE_SK, GENRE_SK)
-- TABLE: BRIDGE_TITLE_LANGUAGE
```

```
CREATE TABLE BRIDGE_TITLE_LANGUAGE(
 TITLE SK
            NUMBER(20, 0) NOT NULL,
 LANGUAGE_SK NUMBER(20, 0) NOT NULL,
 CONSTRAINT PK11 PRIMARY KEY (TITLE_SK, LANGUAGE_SK)
)
-- TABLE: BRIDGE_TITLE_REGIONS
CREATE TABLE BRIDGE_TITLE_REGIONS(
 TITLE_SK NUMBER(20, 0) NOT NULL,
 REGION_SK NUMBER(20, 0) NOT NULL,
 CONSTRAINT PK10 PRIMARY KEY (TITLE_SK, REGION_SK)
)
-- TABLE: DIM_GENRES
CREATE TABLE DIM_GENRES(
 GENRE_SK
             NUMBER(20, 0) NOT NULL,
 GENRE_NAME VARCHAR(30),
 JOB_ID
           VARCHAR(50),
 LOAD DT
            DATE,
 CONSTRAINT PK_GENRE_SK PRIMARY KEY (GENRE_SK)
-- TABLE: DIM_LANGUAGES
CREATE OR replace TABLE DIM_LANGUAGES(
 LANGUAGE SK NUMBER(20, 0) NOT NULL,
```

```
LANGUAGE_NAME VARCHAR(100),
 LANGUAGE_ABBR VARCHAR(5),
 JOB ID
            VARCHAR(50),
 LOAD DT
              DATE,
 CONSTRAINT PK_LANGUAGE_SK PRIMARY KEY (LANGUAGE_SK)
)
-- TABLE: DIM_PERSONS
CREATE OR REPLACE TABLE DIM_PERSONS(
 PERSON SK
               NUMBER(20, 0) NOT NULL,
 NCONST
              VARCHAR(30)
                            NOT NULL,
 PRIMARY NAME
                 VARCHAR(200),
 BIRTH_YEAR NUMBER(4, 0),
 DEATH YEAR
              NUMBER(4, 0),
 KNOWN_TITLE
               VARCHAR(200),
               NUMBER(2, 0),
 IS_CURRENT
 START_DATE
               DATE,
 END DATE
               DATE,
 PERSON_DK
                VARCHAR(50) NOT NULL,
 JOB ID
             VARCHAR(50),
 LOAD_DT
              DATE,
 CONSTRAINT PK_PERSON_SK PRIMARY KEY (PERSON_SK)
-- TABLE: DIM_PROFESSION
CREATE OR REPLACE TABLE DIM PROFESSION(
 PROFESSION_SK
                  NUMBER(20, 0) NOT NULL,
 PROFESSION_NAME VARCHAR(50),
 IS CURRENT
                NUMBER(2, 0),
 START_DATE
                DATE,
 END DATE
               DATE,
 PROFESSION_DK VARCHAR(50) NOT NULL,
```

```
JOB_ID
              VARCHAR(50),
  LOAD_DT
               DATE,
  CONSTRAINT PK_PROFESSION_SK PRIMARY KEY (PROFESSION_SK)
-- TABLE: DIM REGIONS
CREATE OR REPLACE TABLE DIM REGIONS(
  REGION_SK NUMBER(20, 0) NOT NULL,
  REGION_NAME VARCHAR(50),
  REGION_ABBR VARCHAR(5),
  JOB_ID
            VARCHAR(50),
  LOAD DT
             DATE,
  CONSTRAINT PK_REGION_SK PRIMARY KEY (REGION_SK)
)
-- TABLE: DIM_TITLES
CREATE OR REPLACE TABLE DIM_TITLES (
  TITLE_SK NUMBER(22,0) PRIMARY KEY,
  TCONST VARCHAR(20) NOT NULL,
  PRIMARY_TITLE VARCHAR(255),
  ORIGINAL_TITLE VARCHAR(255),
  TITLE_TYPE VARCHAR(50),
  IS_ADULT NUMERIC(2,0),
  JOB_ID VARCHAR(50),
  LOAD_DT DATE
);
```

-- TABLE: FACT\_EPISODES

```
CREATE TABLE FACT_EPISODES(
 EPISODE_SK
                NUMBER(20, 0) NOT NULL,
 SEASON_NUMBER
                   INTEGER,
 EPISODE_NUMBER INTEGER,
 NUM EPISODES
                  INTEGER,
 TITLE SK
            NUMBER(20, 0) NOT NULL,
 PARENT_TITLE_SK NUMBER(20, 0),
             VARCHAR(50),
 JOB ID
 LOAD DT
               DATE,
 CONSTRAINT PK8 PRIMARY KEY (EPISODE_SK)
-- TABLE: FACT_MOVIES
CREATE OR REPLACE TABLE FACT_MOVIES(
 MOVIE_SK
              VARCHAR(50) NOT NULL,
 START YEAR
                NUMBER(4, 0),
 END_YEAR
               NUMBER(4, 0),
 RUNTIME MINUTES INTEGER,
 IS_ADULT
              NUMBER(2, 0),
 TITLE_SK
              NUMBER(20, 0) NOT NULL,
 GENRE_SK
               NUMBER(20, 0),
 REGION_SK
               NUMBER(20, 0),
 LANGUAGE_SK
                 NUMBER(20, 0),
 JOB ID
             VARCHAR(50),
 LOAD_DT
               DATE,
 CONSTRAINT PK_MOVIE_SK PRIMARY KEY (MOVIE_SK)
-- TABLE: FACT_PERSONS
```

CREATE OR REPLACE TABLE FACT\_PERSONS(

```
FACT_PERSON_SK VARCHAR(100) NOT NULL,
 PERSON_SK
               NUMBER(20, 0) NOT NULL,
 CATEGORY
               VARCHAR(200),
 JOB
           VARCHAR(200),
               VARCHAR(200),
 CHARACTER
 ORDERING
               NUMBER(10, 0),
             NUMBER(20, 0) NULL,
 TITLE_SK
 PROFESSION_SK NUMBER(20, 0),
            VARCHAR(50),
 JOB_ID
 LOAD DT
              DATE,
 CONSTRAINT PK_FCT_PERSONS_SK PRIMARY KEY (FACT_PERSON_SK,
PERSON_SK)
)
```