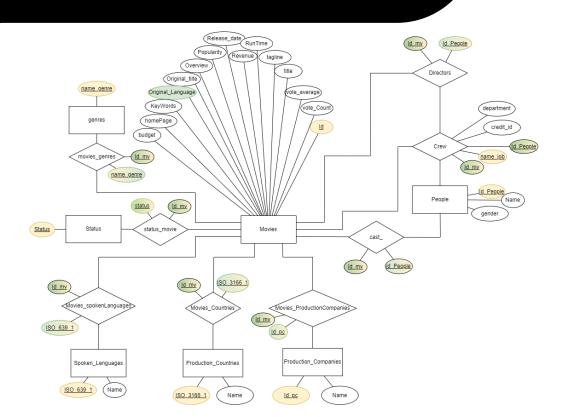
# PROYECTO MOVIE\_DATASET

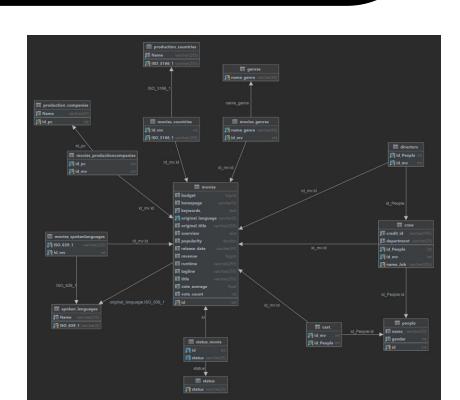
#### Fundamentos de Base de Datos

Edgar Santiago Espinoza Velásquez

#### MAPA CONCEPTUAL

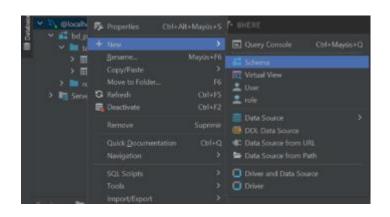


# MAPA LÓGICO

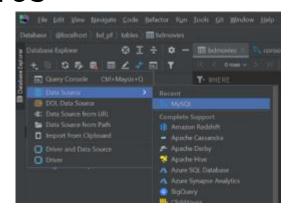


## IMPORTACIÓN CSV

#### 1. CREACIÓN DEL SCHEMA

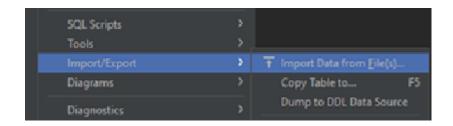


# 2. CONEXIÓN A LA BASE DE DATOS

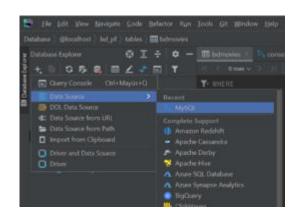


## IMPORTACIÓN CSV

#### 3. IMPORTACIÓN CSV



#### 4. PREVIEW IMPORTACIÓN



# Creación Tablas Temporales

```
DROP PROCEDURE IF EXISTS creacion_tablas ;
DELIMITER $$
CREATE PROCEDURE creacion_tablas ()
    DROP TABLE IF EXISTS Production_Countries_temp;
    SET @sql_text = 'CREATE TABLE Production_Countries_temp (
    PREPARE stmt FROM @sql_text;
    EXECUTE stmt:
    DROP TABLE IF EXISTS production_Companies_temp;
    SET @sql_text = 'CREATE TABLE Production_Companies_temp (
    PREPARE stmt FROM @sql_text;
    EXECUTE stmt;
```

```
DROP TABLE IF EXISTS spoken_languages_temp;
    SET @sql_text = 'CREATE TABLE spoken_languages_temp (
    PREPARE stmt FROM @sql_text;
    EXECUTE stmt:
    DROP TABLE IF EXISTS People_temp;
    SET @sql_text = 'CREATE TABLE `People_temp` (
    PREPARE stmt FROM @sql_text;
    EXECUTE stmt;
    DEALLOCATE PREPARE stmt;
END$$
CALL creacion_tablas();
```

#### Tablas Movies - Insert

```
DROP PROCEDURE IF EXISTS Procedure_Movie ;
DELIMITER $$
CREATE PROCEDURE Procedure_Movie()
     DROP TABLE IF EXISTS Movies;
      `homepage` varchar(255) DEFAULT NULL,
      `original_language` varchar(5) NOT NULL,
      original_title` varchar(255) DEFAULT NULL,
      `release_date` varchar(25) DEFAULT NULL,
      `runtime` varchar(255) DEFAULT NULL,
      tagline` varchar(255) DEFAULT NULL,
      `title` varchar(255) DEFAULT NULL,
```

# Tablas Status - Status\_Movie

```
DROP PROCEDURE IF EXISTS Procedure_Status ;
DELIMITER $$
   CREATE PROCEDURE Procedure_Status()
       DROP TABLE IF EXISTS Status;
   CREATE TABLE Status (status VARCHAR(25)) AS SELECT DISTINCT status
   ALTER TABLE Status
       DROP TABLE IF EXISTS Status_movie;
   CREATE TABLE Status_movie (id INT NOT NULL,
                               status VARCHAR(25))AS SELECT id, st.status AS status
   FROM movie dataset movie status. Status st
   WHERE movie_status.status = st.status;
   ALTER TABLE status_movie
       ADD FOREIGN KEY (status) REFERENCES Status(status);
END $$
CALL Procedure_Status();
```

# Tablas Status - Status\_Movie

```
ROP PROCEDURE IF EXISTS Procedure_Status ;
DELIMITER $$
   CREATE PROCEDURE Procedure_Status()
       DROP TABLE IF EXISTS Status;
   CREATE TABLE Status (status VARCHAR(25)) AS SELECT DISTINCT status
   ALTER TABLE Status
       DROP TABLE IF EXISTS Status_movie;
   CREATE TABLE Status_movie (id INT NOT NULL,
                               status VARCHAR(25))AS SELECT id, st.status AS status
   FROM movie dataset movie status. Status st
   WHERE movie_status.status = st.status;
   ALTER TABLE status_movie
       ADD FOREIGN KEY (status) REFERENCES Status(status);
END $$
CALL Procedure_Status();
```

#### **Tablas Directors**

```
DROP PROCEDURE IF EXISTS Procedure_Directors ;
DELIMITER $$
    CREATE PROCEDURE Procedure_Directors()
        DROP TABLE IF EXISTS Directors;
    CREATE TABLE 'Directors' (
      `id_mv` int NOT NULL,
     PRIMARY KEY ('id_People', 'id_mv'),
      FOREIGN KEY ('id_People') REFERENCES 'Crew' ('id_People'),
      FOREIGN KEY ('id_mv') REFERENCES 'Movies' ('id')
        INSERT IGNORE INTO Directors(id_People, id_mv)
            SELECT c.id_People, c.id_mv FROM Crew c,People p,movie_dataset m
            WHERE c.name_Job = 'Director' AND p.id = c.id_People AND m.id = c.id_mv;
END $$
DELIMITER ;
CALL Procedure_Directors();
```

## Tabla Cast\_

```
#------PROCEDURES Cast -----

DROP TABLE IF EXISTS cast_;

CREATE TABLE `cast_` (
   `id_mv` int NOT NULL,
   `id_People` int NOT NULL,

PRIMARY KEY (`id_mv`, `id_People`),

FOREIGN KEY (`id_mv`) REFERENCES `Movies` (`id`),

FOREIGN KEY (`id_People`) REFERENCES `People` (`id`)

();
```

## Tabla Genres

```
DROP PROCEDURE IF EXISTS Procedure_Genres;
DELIMITER $$
    CREATE PROCEDURE Procedure_Genres()
    BEGIN
        DROP TABLE IF EXISTS genres;
    CREATE TABLE genres(genres VARCHAR(100)) AS
    SELECT DISTINCT (
    SUBSTRING_INDEX(SUBSTRING_INDEX(genres, ' ', 5), ' ', -1)) AS genres
    FROM genres
```

## Tabla Movies\_Genres

```
ALTER TABLE genres
    DROP TABLE IF EXISTS Movies_genres;
    CREATE TABLE Movies_genres AS
        SELECT tg.genres, id
        FROM genres tg, movie_dataset mv
        WHERE INSTR(mv.genres, tg.genres )>0;
    ALTER TABLE Movies_genres
    ADD FOREIGN KEY (id)
        REFERENCES Movies(id),
        ADD FOREIGN KEY (genres)
            REFERENCES genres(genres);
END $$
DELIMITER ;
CALL Procedure_Genres();
```

#### Tablas JSON

```
DROP PROCEDURE IF EXISTS Procedurejson_spokenLenguages ;
DELIMITER $$
CREATE PROCEDURE Procedurejson_spokenLenguages ()
DECLARE done INT DEFAULT FALSE;
DECLARE jsonData json;
DECLARE jsonLabel varchar(250);
DECLARE myCursor
  SELECT JSON_EXTRACT(CONVERT(spoken_languages USING UTF8MB4), '$[*]') FROM movie_dataset;
OPEN myCursor ;
```

## LOOP

```
cursorLoop: LOOP
 FETCH myCursor INTO jsonData;
 IF done THEN
  LEAVE cursorLoop;
 WHILE(JSON_EXTRACT(jsonData, CONCAT('$[', i, ']')) IS NOT NULL) DO
 SET jsonId = IFNULL(JSON_EXTRACT(jsonData, CONCAT('$[', i, '].iso_639_1')), '');
 SET jsonLabel = IFNULL(JSON_EXTRACT(jsonData, CONCAT('$[', i,'].name')), '');
 SET @sql_text = CONCAT('INSERT INTO spoken_languages_temp VALUES (', REPLACE(jsonId,'\'',''), ', ', jsonLabel, '); ');
PREPARE stmt FROM @sql_text;
EXECUTE stmt;
DEALLOCATE PREPARE stmt;
```

# Tabla Spoken\_Languages

```
DROP TABLE IF EXISTS spoken_languages;
   CREATE TABLE spoken_languages AS
   SELECT Distinct iso_639_1, name
   ALTER TABLE spoken_languages
   ADD PRIMARY KEY (iso_639_1);
   DROP TABLE spoken_languages_temp;
CLOSE myCursor ;
END$$
DELIMITER ;
CALL Procedurejson_spokenLenguages ();
```

#### Tabla Movies\_SpokenLanguages

```
TABLE IF EXISTS Movies_spokenLanguages;
CREATE TABLE Movies_spokenLanguages (
      `ISO_639_1` varchar(255) NOT NULL,
     FOREIGN KEY ('ISO_639_1') REFERENCES 'spoken_Languages'
                                                              (`ISO 639 1`
DROP PROCEDURE IF EXISTS ProcedureRelacion_spokenLenguages ;
DELIMITER $$
CREATE PROCEDURE ProcedureRelacion_spokenLenguages ()
DECLARE done INT DEFAULT FALSE;
DECLARE isonData ison;
DECLARE jsonId varchar(250);
DECLARE jsonLabel varchar(250);
```

DECLARE idmv INT;

```
OPEN myCursor ;
 IF done THEN
WHILE(JSON_EXTRACT(jsonData, CONCAT('$[', i, ']')) IS NOT NULL) DO
 SET jsonId = IFNULL(JSON_EXTRACT(jsonData, CONCAT('$[', i, '].iso_639_1')), '');
 SET @sql_text = CONCAT('INSERT INTO Movies_spokenLanguages VALUES (', REPLACE(jsonId,'\'',''), ', ', idmv, '); ')
  PREPARE stmt FROM @sql_text;
  DEALLOCATE PREPARE stmt;
END WHILE:
CLOSE myCursor;
CALL ProcedureRelacion_spokenLenguages ();
```

#### NOTA

En esta presentación se encuentra solo un ejemplo de tabla a partir de columnas tipo JSON, para evitar la redundancia.

