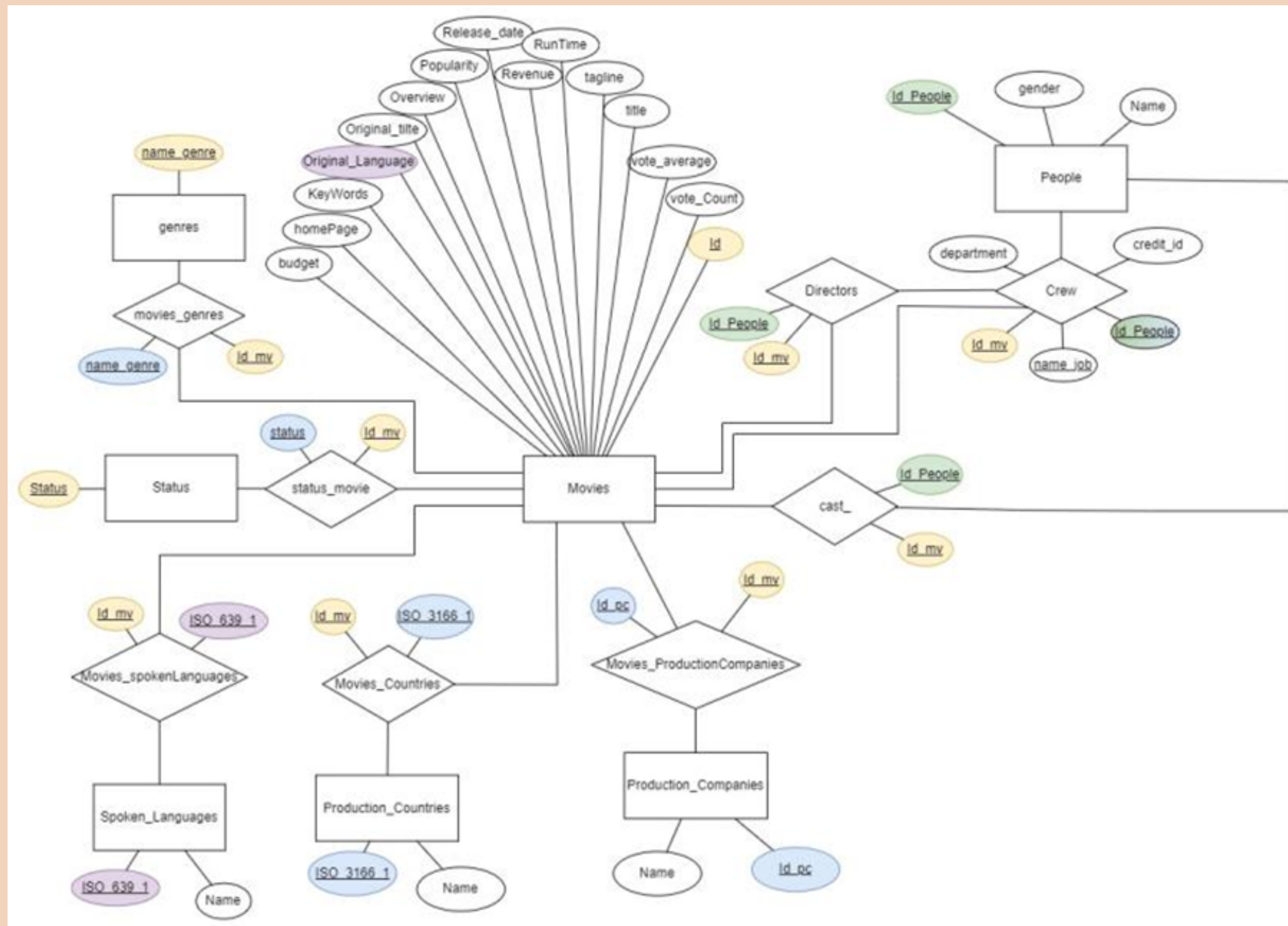


Proyecto Final

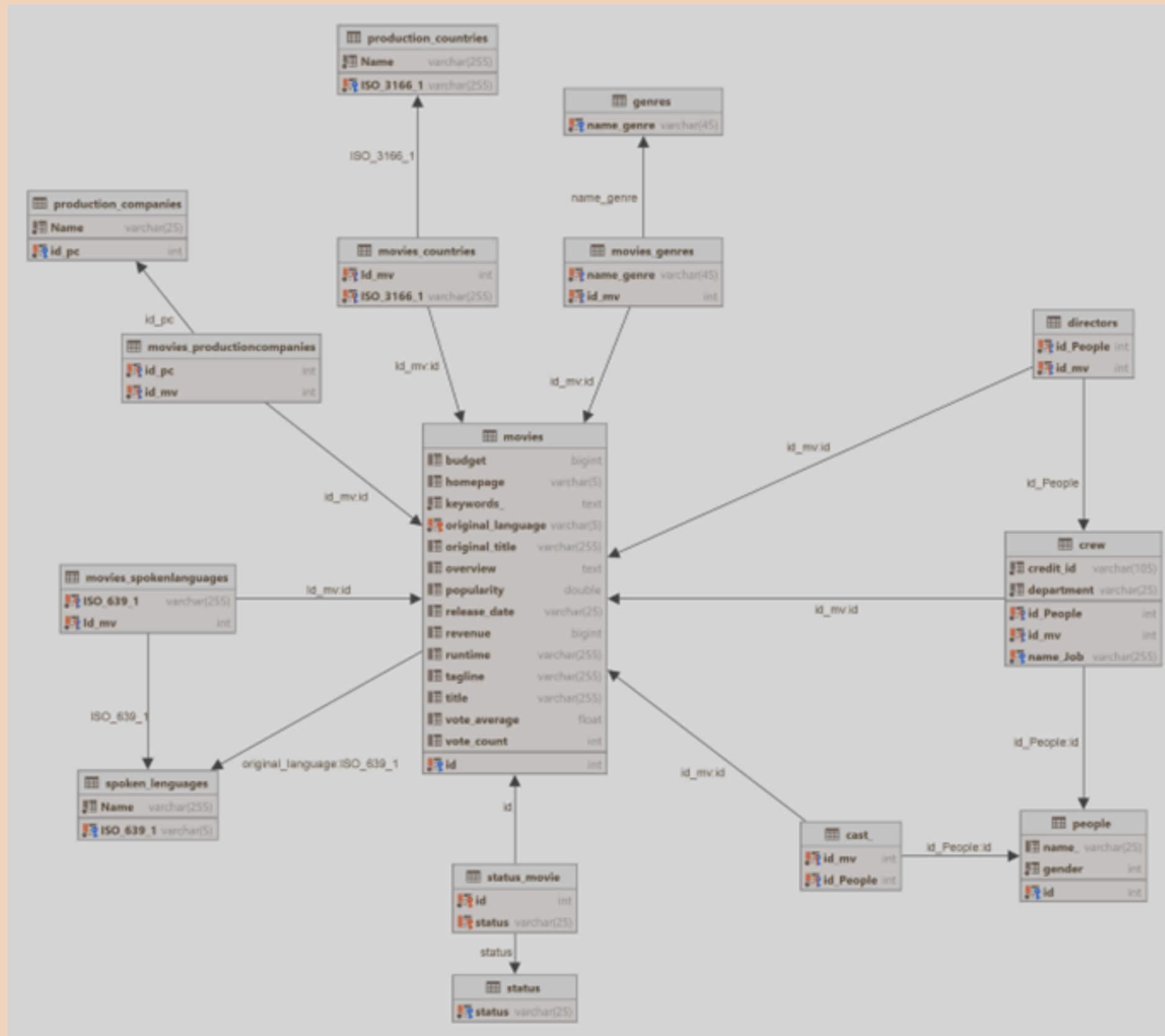
Base de datos

TAIS BALCÁZAR

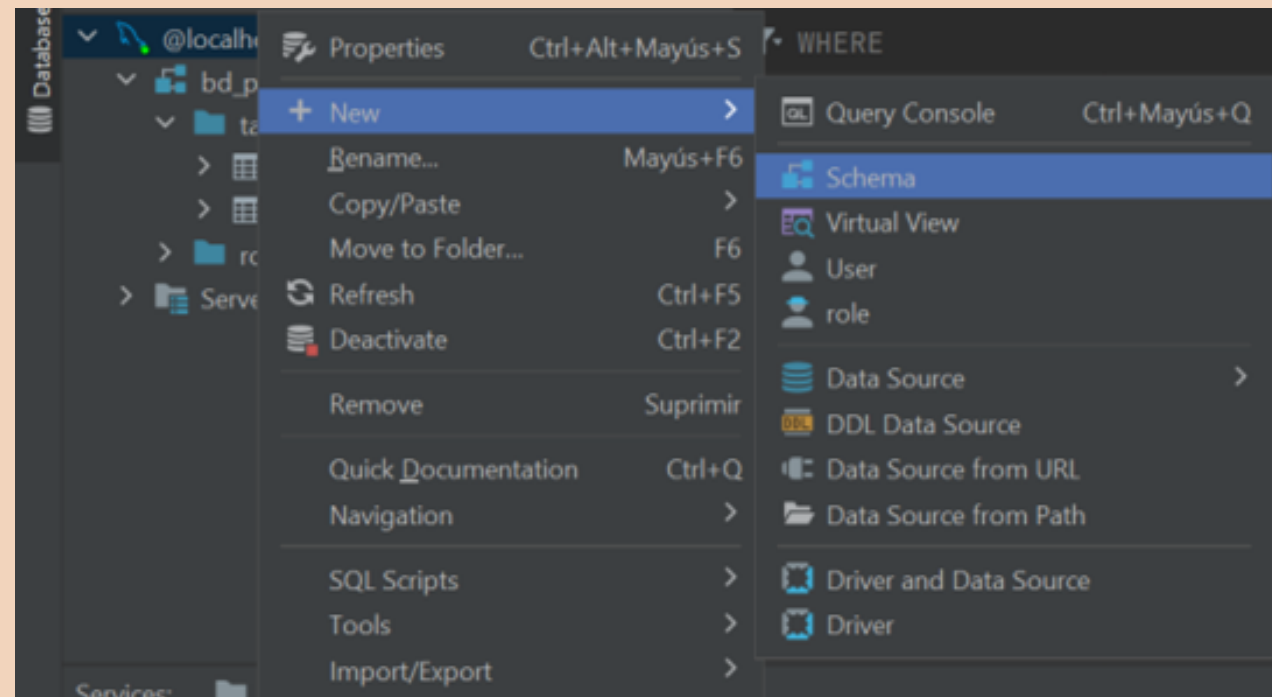
Mapa Conceptual



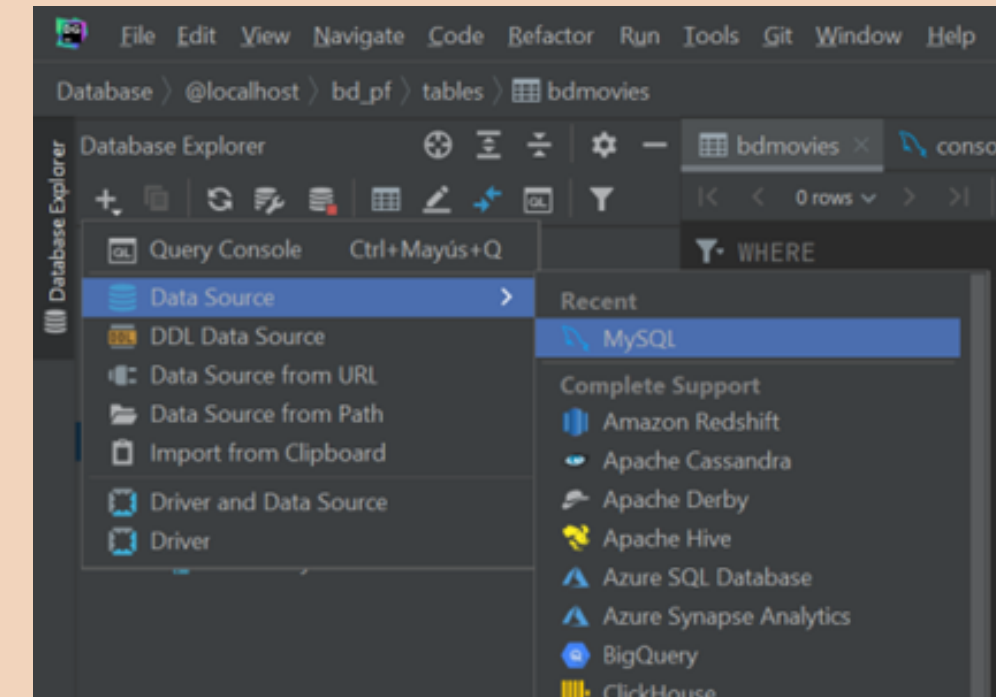
Mapa Lógico



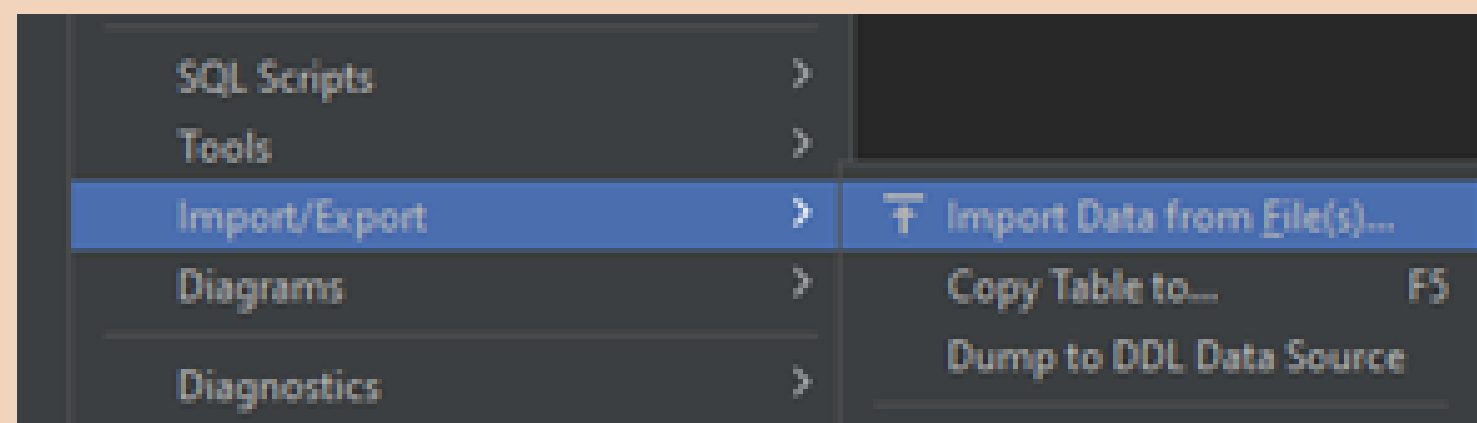
1.- CREACIÓN DEL SCHEMA



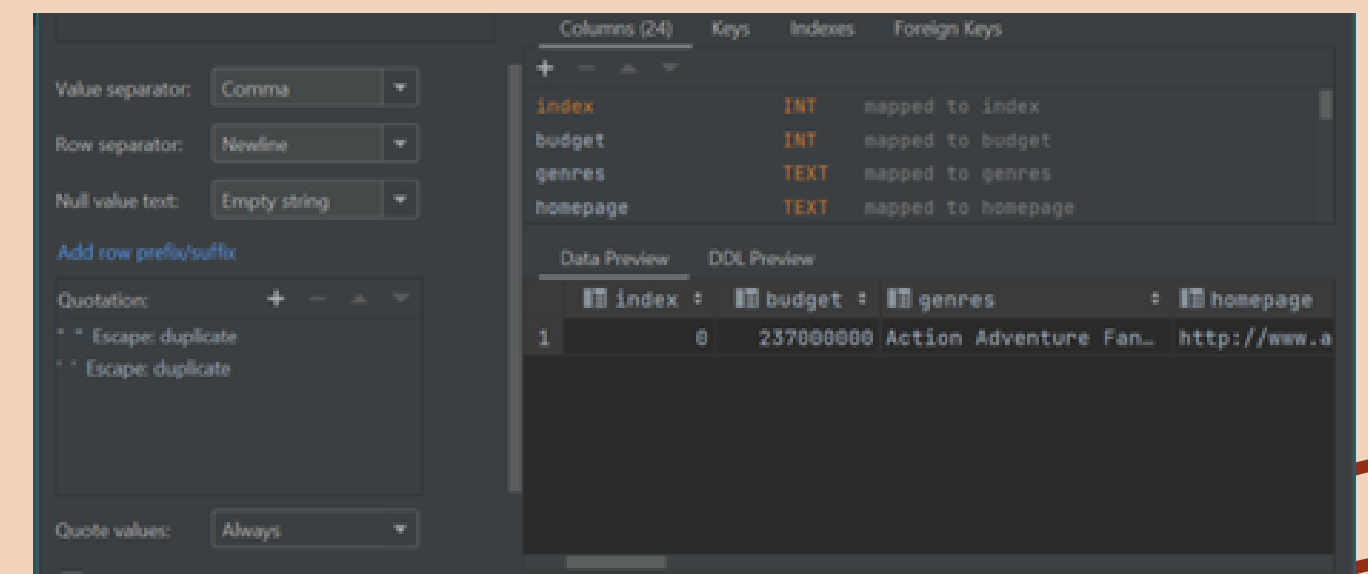
2.- CONEXIÓN A LA BD



3.- IMPORTACIÓN CSV



4- PREVIEW DE LA IMPORTACIÓN



Creación de Tablas

TABLAS TEMPORALES

```
DROP TABLE Production_Companies_temp;  
CREATE TABLE `Production_Companies_temp` (  
    `id_pc` int NOT NULL,  
    `Name` varchar(155) NOT NULL  
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci;
```

```
DROP TABLE spoken_languages_temp;  
CREATE TABLE `spoken_languages_temp` (  
    `iso_639_1` varchar(10) NOT NULL,  
    `Name` varchar(155) DEFAULT NULL  
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci;
```

```
DROP TABLE Production_Countries_temp;  
CREATE TABLE `Production_Countries_temp` (  
    `iso_3166_1` varchar(10) NOT NULL,  
    `Name` varchar(155) NOT NULL  
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci;
```

TABLAS DEFINITIVAS

COLUMNAS JSON

```
CREATE TABLE Production_Companies AS
  SELECT Distinct id_pc,name
  FROM Production_Companies_temp ;

ALTER TABLE Production_Companies
  ADD PRIMARY KEY (id_pc);
```

- Spoken Languages
- Production Countries

CREACIÓN DE TABLAS NORMAL

```
CREATE TABLE `genres` (
  `name_genre` varchar(45) NOT NULL,
  PRIMARY KEY (`name_genre`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci;
```

Status, People, Jobs, Crew, Directors, Genres, Cast

TABLA PRINCIPAL

```
DROP TABLE IF EXISTS Movies;

CREATE TABLE `Movies` (
  `budget` bigint DEFAULT NULL,
  `homepage` varchar(255) DEFAULT NULL,
  `id` int NOT NULL,
  `keywords_` text DEFAULT NULL,
  `original_language` varchar(255) DEFAULT NULL,
  `original_title` varchar(255) DEFAULT NULL,
  `overview` text,
  `popularity` double DEFAULT NULL,
  `release_date` varchar(25) DEFAULT NULL,
  `revenue` bigint DEFAULT NULL,
  `runtime` varchar(255) DEFAULT NULL,
  `status` varchar(255) DEFAULT NULL,
  `tagline` varchar(255) DEFAULT NULL,
  `title` varchar(255) DEFAULT NULL,
  `vote_average` float DEFAULT NULL,
  `vote_count` int DEFAULT NULL,
  `director` varchar(255) DEFAULT NULL,
  PRIMARY KEY (`id`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb3;
```

TABLAS RELACIONALES

```
CREATE TABLE `movies_sl` (  
  `ISO_639_1` varchar(255) NOT NULL,  
  `Id_mv` int NOT NULL,  
  PRIMARY KEY (`ISO_639_1`, `Id_mv`),  
  KEY `Id_mv` (`Id_mv`),  
  CONSTRAINT `movies_sl_ibfk_1` FOREIGN KEY (`Id_mv`) REFERENCES `Movies` (`id`),  
  CONSTRAINT `movies_sl_ibfk_2` FOREIGN KEY (`ISO_639_1`) REFERENCES spoken_languages (`ISO_639_1`)  
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci;
```

```
CREATE TABLE `movies_genres` (  
  `name_genre` varchar(45) NOT NULL,  
  `id_mv` int NOT NULL,  
  PRIMARY KEY (`name_genre`, `id_mv`),  
  KEY `id_mv` (`id_mv`),  
  CONSTRAINT `movies_genres_ibfk_1` FOREIGN KEY (`name_genre`) REFERENCES `genres` (`name_genre`),  
  CONSTRAINT `movies_genres_ibfk_2` FOREIGN KEY (`id_mv`) REFERENCES `Movies` (`id`)  
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci;
```


Creación de Procedimientos

```
CREATE PROCEDURE Procedure_ProductionCompanies ()
BEGIN
    DECLARE done INT DEFAULT FALSE ;
    DECLARE jsonData json ;
    DECLARE jsonId varchar(250) ;
    DECLARE jsonLabel varchar(250) ;
    DECLARE i INT;

    -- Declarar el cursor
    DECLARE myCursor
        CURSOR FOR
        SELECT JSON_EXTRACT(CONVERT(production_companies USING UTF8MB4), '$[*]') FROM movie_dataset ;

    -- Declarar el handler para NOT FOUND (esto es marcar cuando el cursor ha llegado a su fin)
    DECLARE CONTINUE HANDLER
        FOR NOT FOUND SET done = TRUE ;

    -- Abrir el cursor
    OPEN myCursor ;
    cursorLoop: LOOP
        FETCH myCursor INTO jsonData;
        -- Controlador para buscar cada uno de los arrays
        SET i = 0;
        -- Si alcance el final del cursor entonces salir del ciclo repetitivo
        IF done THEN
            LEAVE cursorLoop ;
        END IF ;

        WHILE(JSON_EXTRACT(jsonData, CONCAT('$[', i, ']')) IS NOT NULL) DO

            SET jsonId = IFNULL(JSON_EXTRACT(jsonData, CONCAT('$[', i, '].id')), '');
            SET jsonLabel = IFNULL(JSON_EXTRACT(jsonData, CONCAT('$[', i, '].name')), '');
            SET i = i + 1;
            SET @sql_text = CONCAT('INSERT INTO Production_Companies_temp VALUES (', REPLACE(jsonId, '\'', ''),
                ', ', jsonLabel, '); ');
            PREPARE stmt FROM @sql_text;
            EXECUTE stmt;
            DEALLOCATE PREPARE stmt;
        END WHILE;

    END LOOP ;
    CREATE TABLE Production_Companies AS
    SELECT Distinct id_pc, name
    FROM Production_Companies_temp ;

    ALTER TABLE Production_Companies
        ADD PRIMARY KEY (id_pc);

    DROP TABLE production_companies_temp;
    CLOSE myCursor ;
END$$
DELIMITER ;
```


Ejecución de Procedimientos

```
CALL creacion_tablas();
```

```
CALL ProcedureRelacion_spokenLanguages ();
```