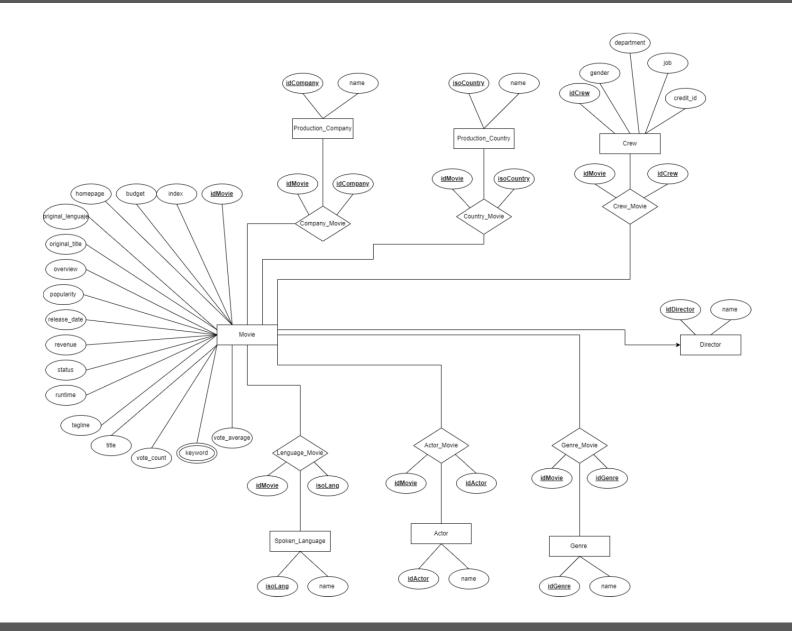
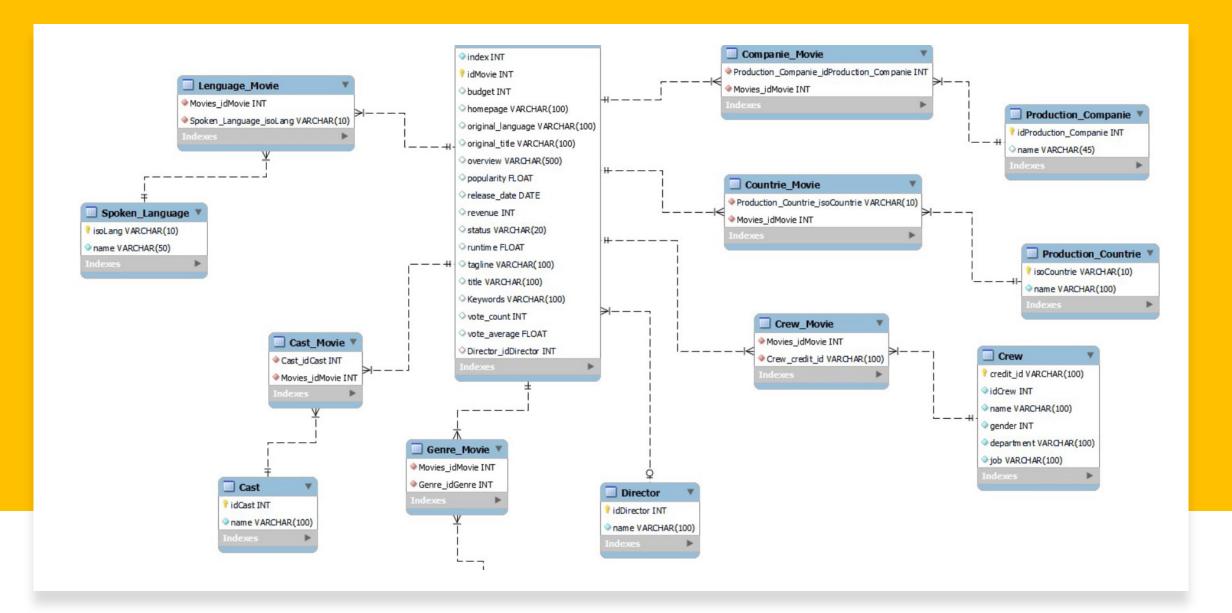
FUNDAMENTOS DE BASES DE DATOS

André Flores

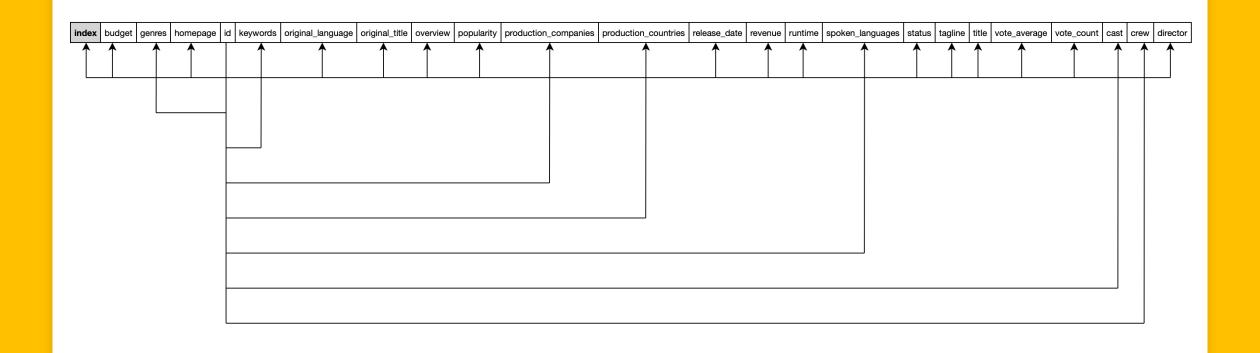
MODELO CONCEPTUAL



MODELO LÓGICO

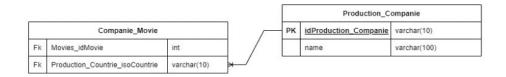


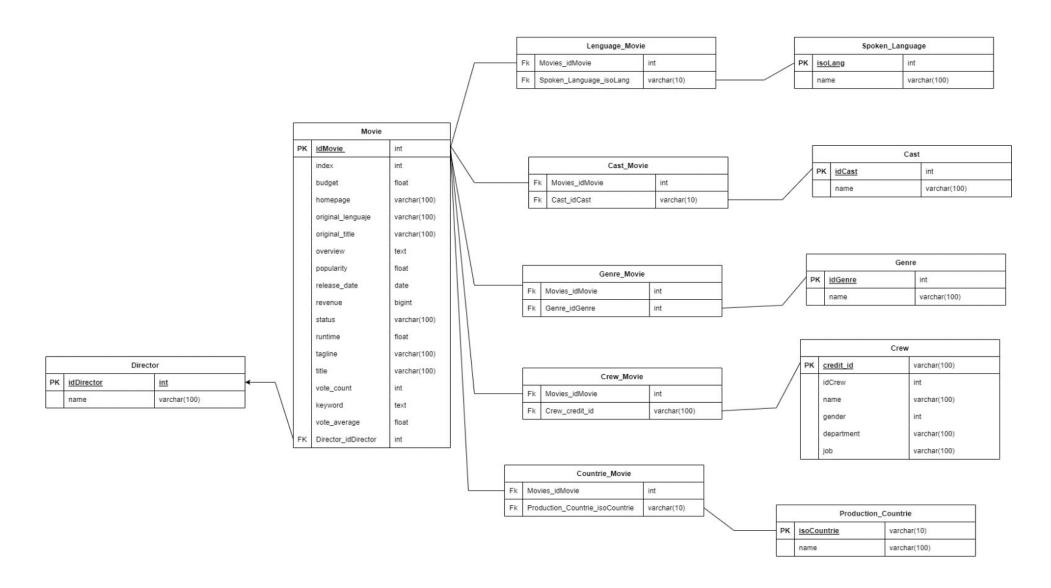
DEPENDENCIAS FUNCIONALES



- id → {index, budget, homepage, original_language, original_title, overview, popularity, release_date, revenue, runtime, status, tagline, title, vote_avarage, vote_count, director}
- id \rightarrow {genres}
- id \rightarrow {keywords}
- id → { production_companies }
- id → {production_countries}
- id → {spoken_language}
- id \rightarrow {cast}
- id \rightarrow {crew}

MODELO FÍSICO





Creación de tablas

```
-- Projecto Base
  DROP DATABASE IF EXISTS Projectobase;
  CREATE DATABASE Projectobase CHARACTER SET utf8mb4;
  USE Projectobase;
  DROP TABLE IF EXISTS `Director` ;
○ CREATE TABLE IF NOT EXISTS `Director` (
     idDirector` INT NOT NULL AUTO INCREMENT,
     `name` VARCHAR(100) NOT NULL,
    PRIMARY KEY (`idDirector`))
  ENGINE = InnoDB;
  DROP TABLE IF EXISTS 'Movies';
○ CREATE TABLE IF NOT EXISTS `Movies` (
     index` INT NOT NULL,
     `idMovie` INT NOT NULL AUTO INCREMENT,
     `budget` INT NULL,
     `homepage` VARCHAR(1000) NULL,
     `original_language` VARCHAR(1000) NULL,
     `original_title` VARCHAR(1000) NULL,
     `overview` VARCHAR(5000) NULL,
     `popularity` FLOAT NULL,
     release_date` DATE NULL,
     revenue` BIGINT NULL,
```

```
status` VARCHAR(20) NULL,
    runtime` FLOAT NULL,
    tagline` VARCHAR(1000) NULL,
    `title` VARCHAR(1000) NULL,
    `Keywords` VARCHAR(1000) NULL,
    vote_count` INT NULL,
    `vote_average` FLOAT NULL,
    `Director idDirector` INT NULL,
   PRIMARY KEY ('idMovie'),
   INDEX `fk_Movies_Director1_idx` (`Director_idDirector` ASC) VISIBLE,
   CONSTRAINT `fk_Movies_Director1`
     FOREIGN KEY (`Director_idDirector`)
     REFERENCES `Director` (`idDirector`)
     ON DELETE NO ACTION
     ON UPDATE NO ACTION)
 ENGINE = InnoDB;
 DROP TABLE IF EXISTS `Production_Companie` ;
CREATE TABLE IF NOT EXISTS `Production_Companie` (
    idProduction_Companie` INT NOT NULL AUTO_INCREMENT,
    `name` VARCHAR(45) NULL,
   PRIMARY KEY (`idProduction_Companie`))
 ENGINE = InnoDB:
```

Población de tablas

```
DROP PROCEDURE IF EXISTS TablaCompanie;
DELIMITER $$
CREATE PROCEDURE TablaCompanie ()
DECLARE done INT DEFAULT FALSE;
 DECLARE jsonData json;
 DECLARE jsonId varchar(250);
 DECLARE jsonLabel varchar(250);
 DECLARE resultSTR LONGTEXT DEFAULT '':
 DECLARE i INT:
 DECLARE myCursor
  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 ;
 OPEN myCursor ;
 drop table if exists production_companietem;
   SET @sql_text = 'CREATE TABLE production_companieTem ( id int, nameCom VARCHAR(100));';
   PREPARE stmt FROM @sql_text;
   EXECUTE stmt:
   DEALLOCATE PREPARE stmt;
 cursorLoop: LOOP
 FETCH myCursor INTO jsonData;
  -- Controlador para buscar cada uno de lso arrays
  -- Si alcanzo el final del cursor entonces salir del ciclo repetitivo
```

```
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_companieTem VALUES (', REPLACE(jsonId,'\'',''), ', jsonLabel, '); ');
PREPARE stmt FROM @sql_text;
EXECUTE stmt;
DEALLOCATE PREPARE stmt;
 END WHILE:
END LOOP ;
 select distinct * from production_companieTem;
   INSERT INTO production companie
   SELECT DISTINCT id, nameCom
   FROM production_companieTem;
   drop table if exists production_companieTem;
 CLOSE myCursor ;
END$$
DELIMITER :
```

Consultas



Gracias