Exposición Base
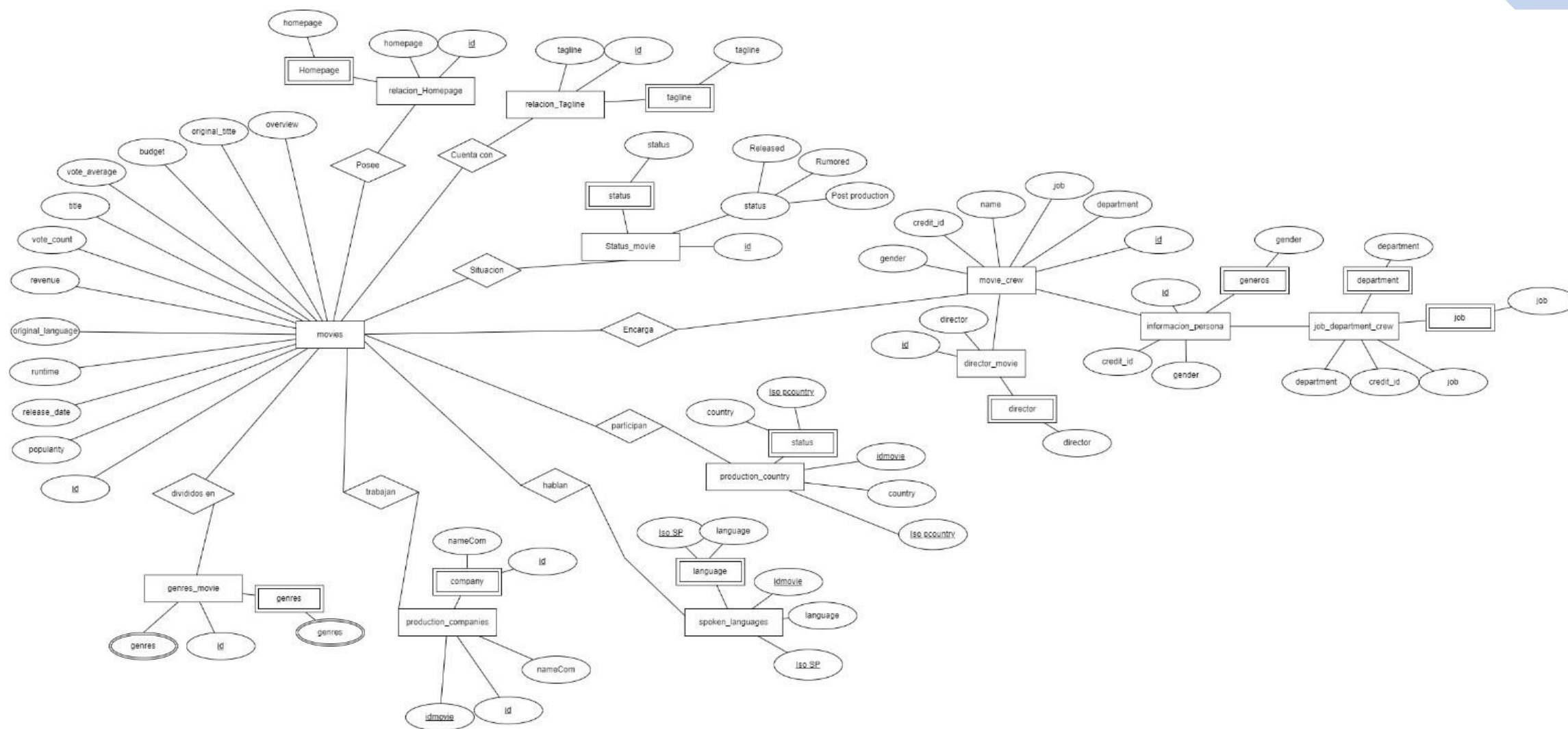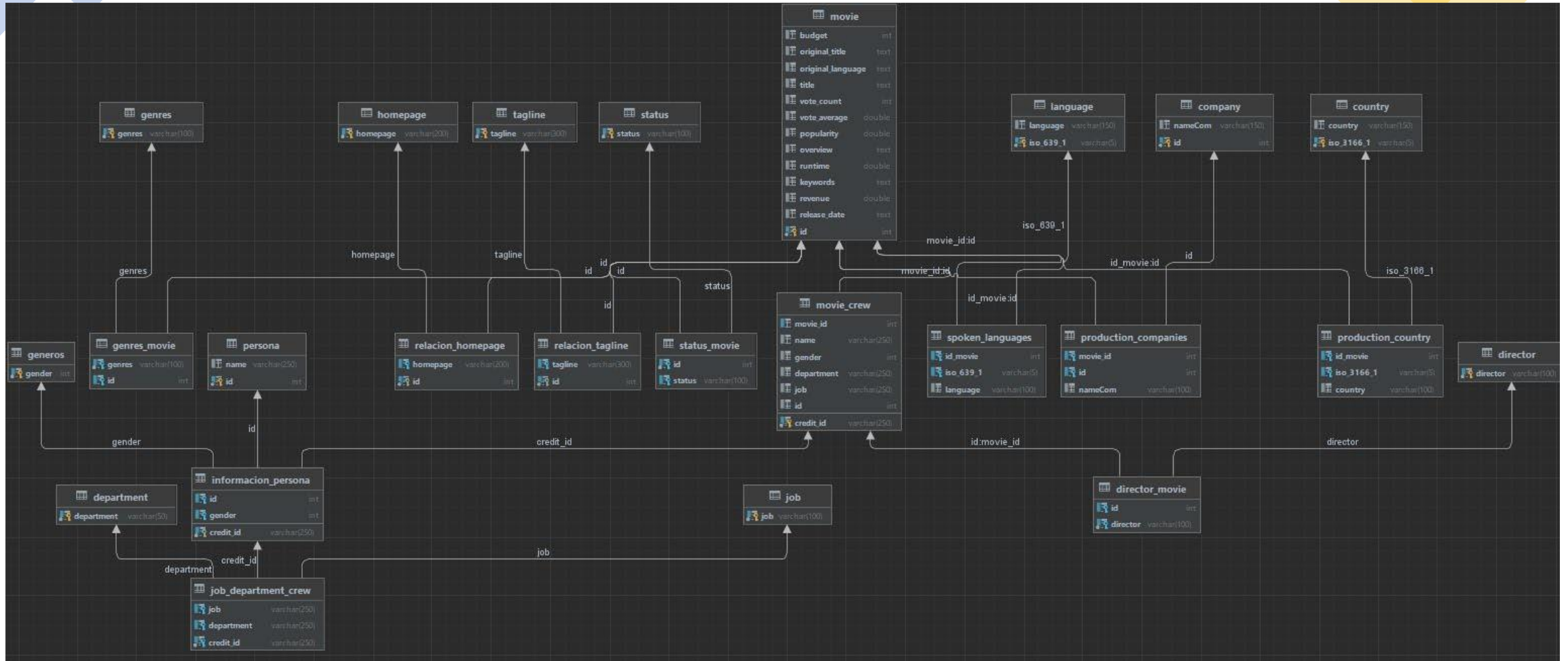
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Modelo Conceptual

Modelo Lógico

```sql
53    DROP TABLE IF EXISTS homepage;
54    CREATE TABLE homepage(homepage VARCHAR(200)) AS
55        SELECT DISTINCT homepage
56        FROM movie_dataset.movie_dataset;
57
58    DELETE
59    FROM homepage
60    WHERE homepage IS NULL;
61
62    ALTER TABLE homepage
63        ADD PRIMARY KEY (homepage);
64
65
66    CREATE TABLE relacion_homepage (id INT NOT NULL PRIMARY KEY, homepage VARCHAR(200)) AS
67        SELECT DISTINCT id, homepage
68        FROM movie_dataset.movie_dataset
69        WHERE homepage != '' OR homepage IS NOT NULL;
70    -- Agregamos las claves foráneas de la relacion_homepage a movie y a homepage según corresponda.
71    ALTER TABLE relacion_homepage
72        ADD FOREIGN KEY (id)
73            REFERENCES movie(id),
74        ADD FOREIGN KEY (homepage)
75            REFERENCES homepage(homepage);
76
```

Normalización Con Status

```
9    -- ------------------------------------------ Normalización de Status ------------------------------
10   DROP TABLE IF EXISTS status;
11   CREATE TABLE status (status VARCHAR(100)) AS SELECT DISTINCT status
12   FROM movie_dataset.movie_dataset;
13
14   ALTER TABLE status
15   ADD PRIMARY KEY (status);
16
17   -- Creación de la relación movie-status
18   CREATE TABLE status_movie (id INT NOT NULL,
19                               status VARCHAR(100))AS SELECT id, st.status AS status
20   FROM movie_dataset.movie_dataset movie_status, status st
21   WHERE movie_status.status = st.status;
22
23   ALTER TABLE status_movie
24   ADD FOREIGN KEY (id) REFERENCES movie(id),
25       ADD FOREIGN KEY (status) REFERENCES status(status);
26
```

Limpieza De datos

```sql
341   SELECT id, cast, length(cast) as longitud,
342   length(REPLACE(cast, ' ', '')) as longitudSinEspacios,
343   length(cast) - length(REPLACE(cast, ' ', '')) as CantidadEspacios,
344   length(cast) - length(REPLACE(cast, ' ', '')) + 1 as CantidaDePalabras
345   FROM cast ;
```

```sql
2
3   SELECT id, cast, REPLACE(cast,'Love E-40', 'Charlie Hustle')
4   FROM cast WHERE cast LIKE '%Love E-40%';
5
6
```

```sql
136   UPDATE cast
137   SET cast = REPLACE(cast,' Emma Eliza Regan', ' Emma Regan');
138
139   UPDATE cast
140   SET cast = REPLACE(cast,' Taylor Scott Olson', ' Taylor Olson');
141
142   UPDATE cast
143   SET cast = REPLACE(cast,' Audrey Lynn Tennent', ' Audrey Tennent');
144
145   UPDATE cast
146   SET cast = REPLACE(cast,'Mackenzie E.Danny', 'Mackenzie E. Danny');
147
148   UPDATE cast
149   SET cast = REPLACE(cast,' Lalaine', ' Lalaine Vergara-Paras');
150
151   UPDATE cast
152   SET cast = REPLACE(cast,' Mary Kate Wiles', ' Mary Wiles');
```

```sql
416        -- Declarar el cursor
417    DECLARE myCursor
418      CURSOR FOR
419      SELECT id, JSON_EXTRACT(CONVERT(spoken_languages USING UTF8MB4), '$[*]')
420      FROM movie_dataset.movie_dataset;
421      -- Declarar el handler para NOT FOUND
422
423    DECLARE CONTINUE HANDLER
424      FOR NOT FOUND SET done = TRUE ;
425
426      -- Abrir el cursor
427      OPEN myCursor  ;
428    cursorLoop: LOOP
429
430      FETCH myCursor INTO movieId, jsonData;
431        SET i = 0;
432    IF done THEN
433      LEAVE  cursorLoop ;
434      END IF ;
```

```sql
401    -- ---------------------------------------- Normalización de spoken Languages ----------------------------------------
402
403      # [{"iso_639_1": "en", "name": "English"}]
404
405    DROP PROCEDURE IF EXISTS spoken_languages;
406    DELIMITER $$
407    CREATE PROCEDURE spoken_languages()
408    BEGIN
409      DECLARE done INT DEFAULT FALSE ;
410      DECLARE jsonData json ;
411      DECLARE jsonId varchar(250) ;
412      DECLARE jsonLabel varchar(250) ;
413      DECLARE movieId INT;
414      DECLARE i INT;
415
```

```sql
436      WHILE(JSON_EXTRACT(jsonData, CONCAT('$[', i, ']')) IS NOT NULL) DO
437        SET jsonId = IFNULL(JSON_EXTRACT(jsonData,  CONCAT('$[', i, '].iso_639_1')), '') ;
438        SET jsonLabel = IFNULL(JSON_EXTRACT(jsonData, CONCAT('$[', i,'].name')), '') ;
439        SET @sql_text = CONCAT('INSERT INTO spoken_languages VALUES (', movieId, ', ', REPLACE(jsonId,'\'',''), ', ', jsonLabel, '); ');
440
441      PREPARE stmt FROM @sql_text;
442      EXECUTE stmt;
443      DEALLOCATE PREPARE stmt;
444      SET i = i + 1;
445    END WHILE;
446
447  END LOOP ;
448
449    CLOSE myCursor ;
450
451  END$$
452    DELIMITER ;
```

GRACIAS POR LA ANTENCION PRESTADA