Modelo de Estrella

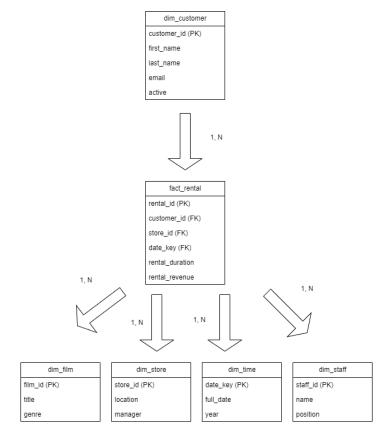


Tabla de hechos fact_rental:

Servirá para analizar los alquileres en el videoclub. Por ejemplo, la cantidad de alquileres que se realizaron en un período de tiempo, conocer las películas más alquiladas y los clientes que alquilan con más frecuencia.



Tabla de dimensiones dim_customer:

Para almacenar los datos sobre los clientes del videoclub



Tabla de dimensiones dim_film:

Para dar detalles sobre las películas alquiladas

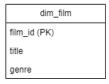


Tabla de dimensiones dim_store:

Para analizar los alquileres en función de la ubicación del negocio.



Tabla de dimensiones dim_time:

Para facilitar el análisis temporal de los alquileres y los pagos

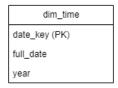
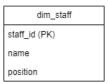


Tabla de dimensiones dim_staff:

Para analizar el rendimiento de los empleados en las tiendas



Creación de la tabla fact_rental

Poblar la tabla fact_rental

```
nysql> INSERT INTO fact_rental (rental_id, customer_id, film_id, store_id, date_key, rental_revenue)
     -> SELECT
     -> r.rental_id,
     -> r.customer_id,
     -> i.film_id,
     -> i.store_id,
    -> DATE_FORMAT(r.rental_date, '%Y%m%d') AS date_key,
-> COALESCE(SUM(p.amount), 0) AS rental_revenue
     -> FROM sakila.rental r
     -> JOIN sakila.inventory i ON r.inventory_id = i.inventory_id
-> JOIN sakila.payment p ON r.rental_id = p.rental_id
-> GROUP BY r.rental_id, r.customer_id, i.film_id, i.store_id, date_key;
Query OK, 16044 rows affected (0,34 sec)
Records: 16044 Duplicates: 0 Warnings: 0
nysql> SELECT * FROM fact_rental LIMIT 10;
  rental_id | customer_id | film_id | store_id | date_key | rental_revenue |
                                                        1 | 20050524 |
                                                        2 | 20050524
2 | 20050524
1 | 20050524
2 | 20050524
                                                                                         2.99
3.99
                                        333
                            408
                                        535
                                                                                         4.99
                                         450
                                                                                         6.99
                                                        1 | 20050524
2 | 20050524
                            549
                                                                                         0.99
                            269
                                        870
                                                                                         1.99
                            239
                                         510
                                                        1 | 20050524
                                                                                         4.99
                                                              20050525
                                                                                          4.99
                                                         2 | 20050525
                                                                                         5.99
10 rows in set (0,00 sec)
```

Creación de la tabla dim_time

mysql> CREATE TABLE dim_time (date_key INT PRIMARY KEY, full_date DATE, year INT); Query OK, 0 rows affected (0,01 sec)

Poblar la tabla dim_time

```
mysql> INSERT IGNORE INTO dim_time (date_key, full_date, year)
-> SELECT DISTINCT
-> DATE_FORMAT(r.rental_date, '%Y%m%d') AS date_key,
-> r.rental_date AS full_date,
-> YEAR(r.rental_date) AS year
-> FROM sakila.rental r;
Query OK, 41 rows affected, 31588 warnings (0,06 sec)
Records: 15815 Duplicates: 15774 Warnings: 31588

mysql> SELECT * FROM dim_time
```

Creación de la tabla dim film

Poblar la tabla dim_film

Creación de la tabla dim_store

Poblar la tabla dim store

```
mysql> INSERT INTO dim_store (store_id, location, manager)
   -> SELECT
   -> s.store_id,
   -> CONCAT(a.address, ', ', c.city) AS location,
-> CONCAT(st.first_name, ' ', st.last_name) AS manager
   -> FROM sakila.store s
   -> JOIN sakila.address a ON s.address_id = a.address_id
   -> JOIN sakila.city c ON a.city_id = c.city_id
   -> JOIN sakila.staff st ON s.manager_staff_id = st.staff_id;
Query OK, 2 rows affected (0,04 sec)
Records: 2 Duplicates: 0 Warnings: 0
mysql> SELECT * FROM dim_store;
| store_id | location
                                           manager
       1 | 47 MySakila Drive, Lethbridge | Mike Hillyer |
        2 | 28 MySQL Boulevard, Woodridge | Jon Stephens |
2 rows in set (0,00 sec)
```

Creación de la tabla dim staff

Poblar la tabla dim_staff

Creación de la tabla dim_customer

Poblar la tabla dim customer

```
nysql> SELECT * FROM dim_customer;
customer_id | first_name | last_name | email
                                                                                                          | active |
             1 | MARY | SMITH | MARY.SMITH@sakilacustomer.org
2 | PATRICIA | JOHNSON | PATRICIA.JOHNSON@sakilacustomer.org
3 | LINDA | WILLIAMS | LINDA.WILLIAMS@sakilacustomer.org
4 | BARBARA | JONES | BARBARA.JONES@sakilacustomer.org
                                                                                                                  1
                                                                                                                   1 |
             5 | ELIZABETH | BROWN
                                                  | ELIZABETH.BROWN@sakilacustomer.org
                                                    | JENNIFER.DAVIS@sakilacustomer.org
             6 | JENNIFER | DAVIS
                                 MILLER
                                                    | MARIA.MILLER@sakilacustomer.org
             7 | MARIA
                                 WILSON
                                                    | SUSAN.WILSON@sakilacustomer.org
             8 | SUSAN
                                                    | MARGARET.MOORE@sakilacustomer.org
             9 | MARGARET
                                 MOORE
            10 | DOROTHY
                                  | TAYLOR
                                                    | DOROTHY.TAYLOR@sakilacustomer.org
```