Realizar las siguientes consultas en la base de datos alquilerdvd:

a) Obtenga las ventas totales por categoría de películas ordenadas descendentemente.

Comando utilizado para resolver la consulta:

```
SELECT
    c.name AS categoria,
    SUM(p.amount) AS ventas_totales
FROM
    payment p
    JOIN rental r ON p.rental_id = r.rental_id
    JOIN inventory i ON r.inventory_id = i.inventory_id
    JOIN film f ON i.film_id = f.film_id
    JOIN film_category fc ON f.film_id = fc.film_id
    JOIN category c ON fc.category_id = c.category_id
GROUP BY
    c.name
ORDER BY
    ventas_totales DESC;
```

Captura de la consulta:

```
alquilerdvd=#
alquilerdvd=# SELECT
    c.name AS categoria,
    SUM(p.amount) AS ventas_totales
FROM
    payment p
    JOIN rental r ON p.rental_id = r.rental_id
    JOIN inventory i ON r.inventory_id = i.inventory_id
    JOIN film f ON i.film_id = f.film_id
    JOIN film_category fc ON f.film_id = fc.film_id
    JOIN category c ON fc.category_id = c.category_id
GROUP BY
    c.name
ORDER BY
    ventas_totales DESC;
  categoria   | ventas_totales
--------------+----------------
 Sports       |        4892.19
 Sci-Fi       |        4336.01
 Animation    |        4245.31
 Drama        |        4118.46
 Comedy       |        4002.48
 New          |        3966.38
 Action       |        3951.84
 Foreign      |        3934.47
 Games        |        3922.18
 Family       |        3830.15
 Documentary  |        3749.65
 Horror       |        3401.27
 Classics     |        3353.38
 Children     |        3309.39
 Travel       |        3227.36
 Music        |        3071.52
(16 rows)
```

b) Obtenga las ventas totales por tienda, donde se refleje la ciudad, el país (concatenar la ciudad y el país empleando como separador la ","), y el encargado. Pudiera emplear GROUP BY, ORDER BY

Comando utilizado para resolver la consulta:

```
SELECT
    CONCAT(ci.city, ', ', co.country) AS ciudad_pais,
    CONCAT(s.first_name, ' ', s.last_name) AS encargado,
    SUM(p.amount) AS ventas_totales
FROM
    payment p
    JOIN rental r ON p.rental_id = r.rental_id
    JOIN inventory i ON r.inventory_id = i.inventory_id
    JOIN store st ON i.store_id = st.store_id
    JOIN address a ON st.address_id = a.address_id
    JOIN city ci ON a.city_id = ci.city_id
```

```
    JOIN country co ON ci.country_id = co.country_id
    JOIN staff s ON st.manager_staff_id = s.staff_id
GROUP BY
    ciudad_pais, encargado
ORDER BY
    ventas_totales DESC;
```

Captura de la consulta:

```
alquilerdvd=# SELECT
    CONCAT(ci.city, ', ', co.country) AS ciudad_pais,
    CONCAT(s.first_name, ' ', s.last_name) AS encargado,
    SUM(p.amount) AS ventas_totales
FROM
    payment p
    JOIN rental r ON p.rental_id = r.rental_id
    JOIN inventory i ON r.inventory_id = i.inventory_id
    JOIN store st ON i.store_id = st.store_id
    JOIN address a ON st.address_id = a.address_id
    JOIN city ci ON a.city_id = ci.city_id
    JOIN country co ON ci.country_id = co.country_id
    JOIN staff s ON st.manager_staff_id = s.staff_id
GROUP BY
    ciudad_pais, encargado
ORDER BY
    ventas_totales DESC;
     ciudad_pais       |   encargado    | ventas_totales
----------------------+---------------+----------------
 Woodridge, Australia | Jon Stephens  |       30683.13
 Lethbridge, Canada   | Mike Hillyer  |       30628.91
(2 rows)
```

c) Obtenga una lista de películas, donde se reflejen el identificador, el título,
descripción, categoría, el precio, la duración de la película, clasificación, nombre y
apellidos de los actores (puede realizar una concatenación de ambos). Pudiera
emplear GROUP BY

Comando usado para resolver la consulta:

```
SELECT
    f.film_id as identificador,
    f.title as titulo,
    f.description as descripcion,
    c.name AS categoria,
    f.rental_rate AS precio,
    f.length AS duracion,
    f.rating AS clasificacion,
```

```
    STRING_AGG(CONCAT(a.first_name, ' ', a.last_name), ', ') AS actores
FROM
    film f
    JOIN film_category fc ON f.film_id = fc.film_id
    JOIN category c ON fc.category_id = c.category_id
    JOIN film_actor fa ON f.film_id = fa.film_id
    JOIN actor a ON fa.actor_id = a.actor_id
GROUP BY
    f.film_id, f.title, f.description, c.name, f.rental_rate, f.length, f.rating
ORDER BY
    f.title;
```

Captura de la consulta:

d) Obtenga la información de los actores, donde se incluya sus nombres y apellidos, las categorías y sus películas. Los actores deben de estar agrupados y, las categorías y las películas deben estar concatenados por ":"

Comando usado para resolver la consulta:

```
SELECT
    CONCAT(a.first_name, ' ', a.last_name) AS actor,
    c.name AS categoria,
    STRING_AGG(f.title, ', ') AS peliculas
FROM
    actor a
    JOIN film_actor fa ON a.actor_id = fa.actor_id
    JOIN film f ON fa.film_id = f.film_id
    JOIN film_category fc ON f.film_id = fc.film_id
    JOIN category c ON fc.category_id = c.category_id
GROUP BY
    actor, c.name
ORDER BY
    actor, c.name;
```

Captura de la consulta:

```
       actor        | categoria  |                                                peliculas
--------------------+------------+----------------------------------------------------------------------------------------------
 Adam Grant         | Action     | Midnight Westward
 Adam Grant         | Children   | Idols Snatchers, Twisted Pirates, Splendor Patton
 Adam Grant         | Classics   | Tadpole Park
 Adam Grant         | Comedy     | Fireball Philadelphia, Operation Operation, Groundhog Uncut
 Adam Grant         | Family     | Gladiator Westward
 Adam Grant         | Foreign    | Happiness United, Ballroom Mockingbird
 Adam Grant         | Games      | Wanda Chamber, Glory Tracy, Mars Roman
 Adam Grant         | Sci-Fi     | Annie Identity
 Adam Grant         | Sports     | Seabiscuit Punk, Loser Hustler
 Adam Grant         | Travel     | Disciple Mother
 Adam Hopper        | Action     | Mockingbird Hollywood, Clueless Bucket
 Adam Hopper        | Children   | Noon Papi
 Adam Hopper        | Classics   | Towers Hurricane
 Adam Hopper        | Comedy     | Saddle Antitrust, Heaven Freedom
 Adam Hopper        | Documentary| Clerks Angels, Princess Giant
 Adam Hopper        | Drama      | Torque Bound
 Adam Hopper        | Family     | Blood Argonauts, Gables Metropolis, Grease Youth
 Adam Hopper        | Foreign    | Fiction Christmas
 Adam Hopper        | Horror     | Train Bunch
 Adam Hopper        | Music      | Words Hunter, Masked Bubble, Chamber Italian
 Adam Hopper        | New        | Sleepy Japanese, Loverboy Attacks
 Adam Hopper        | Sci-Fi     | Open African, Blindness Gun, Vacation Boondock
 Al Garland         | Action     | Park Citizen, Drifter Commandments, Glass Dying, Grail Frankenstein, Handicap Boondock
 Al Garland         | Animation  | Oscar Gold, Potter Connecticut
 Al Garland         | Children   | Splendor Patton
 Al Garland         | Classics   | Wasteland Divine
 Al Garland         | Documentary| Bill Others
 Al Garland         | Drama      | Dalmations Sweden, Jacket Frisco, Chitty Lock
 Al Garland         | Family     | Splash Gump, House Dynamite
 Al Garland         | Foreign    | Vision Torque, Holiday Games, Muppet Mile
 Al Garland         | Games      | Sleuth Orient
 Al Garland         | Horror     | Rock Instinct
 Al Garland         | New        | Breakfast Goldfinger, Voice Peach
 Al Garland         | Sci-Fi     | Silverado Goldfinger
 Al Garland         | Sports     | Sense Greek, Slipper Fidelity
```