

Exercise 1.1

QUERY:

```
SELECT film.film_id,film.title FROM film
  JOIN film_category ON film.film_id=film_category.film_id
  JOIN category ON category.category_id=film_category.category_id
 WHERE film.film_id
       NOT IN (SELECT inventory.film_id FROM inventory
              JOIN rental ON
                rental.inventory_id=inventory.inventory_id
              JOIN payment ON payment.rental_id=rental.rental_id)
       AND (name='Horror' OR name='Sci-Fi')
       AND (rating='R' OR rating='PG-13');
```

Query Editor Query History

1 SELECT film.film_id,film.title FROM film

2 JOIN film_category ON film.film_id=film_category.film_id

3 JOIN category ON category.category_id=film_category.category_id

4 WHERE film.film_id

5 NOT IN (SELECT inventory.film_id FROM inventory

6 JOIN rental ON rental.inventory_id=inventory.inventory_id

7 JOIN payment ON payment.rental_id=rental.rental_id)

8 AND (name='Horror' OR name='Sci-Fi')

9 AND (rating='R' OR rating='PG-13');

10

Data Output Explain Messages Notifications

	film_id [PK] integer		title character varying (255)	
1		171	Commandments Express	
2		195	Crowds Telemark	
3		909	Treasure Command	

✓ Success

ANALYSE:

Hash Join (cost=1028.33..1100.76 rows=23 width=19) (actual time=13.552..13.757 rows=3 loops=1)

Exercise 1.2

QUERY:

```
SELECT store.store_id, city.city, SUM(payment.amount) FROM payment
  JOIN staff ON payment.staff_id=staff.staff_id
  JOIN store ON staff.staff_id = store.manager_staff_id
  JOIN address ON store.address_id=address.address_id
  JOIN city on city.city_id=address.city_id
GROUP BY store.store_id,city.city
ORDER BY sum DESC
```

Query Editor		Query History	
1	SELECT	store.store_id, city.city, SUM(payment.amount)	
2	FROM	payment	
3	JOIN	staff ON payment.staff_id=staff.staff_id	
4	JOIN	store ON staff.staff_id = store.manager_staff_id	
5	JOIN	address ON store.address_id=address.address_id	
6	JOIN	city on city.city_id=address.city_id	
7	GROUP BY	store.store_id,city.city	
8	ORDER BY	sum DESC	
9			

Data Output		Explain	Messages	Notifications
	store_id integer	city character varying (50)	sum numeric	
1	2	Woodridge	31171.93	
2	1	Lethbridge	30252.12	

ANALYSE:

Sort (cost=659.52..662.51 rows=1198 width=45) (actual time=8.396..8.418 rows=2 loops=1)