

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	city	sum
	integer	character varying (50)	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)
```