6)
test=> select * from r cross join s;

```
 a | b | b | c
---+---+---+---
 a | 1 | 1 | x
 a | 1 | 1 | y
 a | 1 | 3 | z
 b | 2 | 1 | x
 b | 2 | 1 | y
 b | 2 | 3 | z
(6 rows)
```

The two 'b' columns are ambiguous. We don't know which one belongs to which of the tables.

test=> select r.a as a, r.b as rb, s.b as sb, s.c as c from r cross join s;

```
 a | rb | sb | c
---+----+----+---
 a |  1 |  1 | x
 a |  1 |  1 | y
 a |  1 |  3 | z
 b |  2 |  1 | x
 b |  2 |  1 | y
 b |  2 |  3 | z
(6 rows)
```

test=> select r.a as a, r.b as rb, s.b as sb, s.c as c from r cross join s where r.b != s.b;

```
 a | rb | sb | c
---+----+----+---
 a |  1 |  3 | z
 b |  2 |  1 | x
 b |  2 |  1 | y
 b |  2 |  3 | z
(4 rows)
```
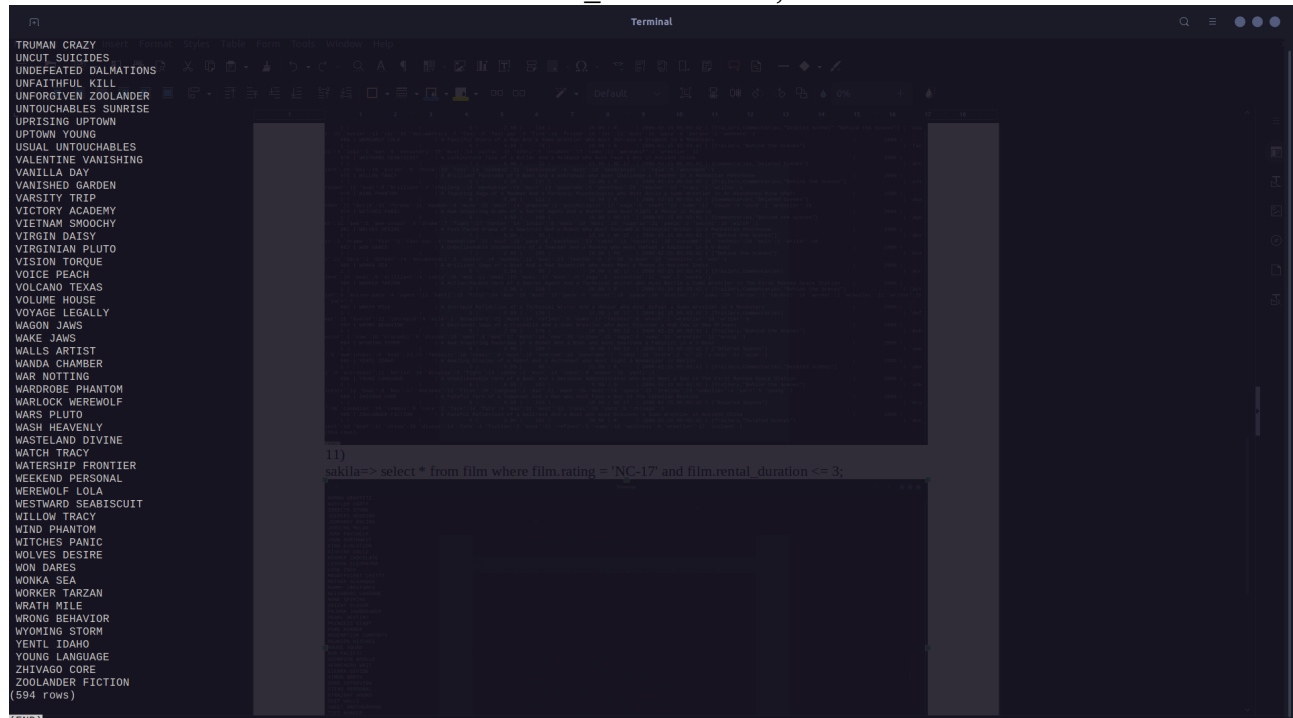
test=> select r.a as a, r.b as rb, s.b as sb, s.c as c from r cross join s where r.b = s.b;

```
 a | rb | sb | c
---+----+----+---
 a |  1 |  1 | x
 a |  1 |  1 | y
(2 rows)
```
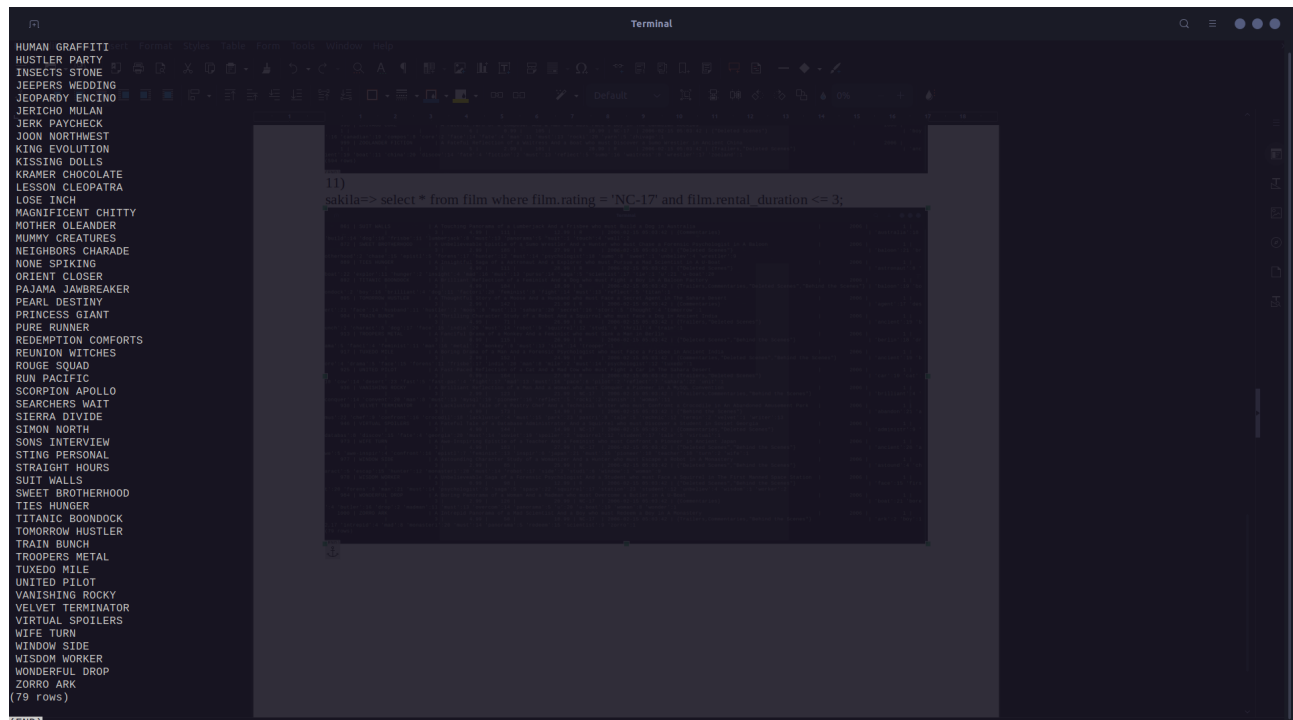
10) (594)
sakila=> select * from film where film.rental_duration >= 5;

11) (79)
sakila=> select * from film where film.rating = 'NC-17' and film.rental_duration <= 3;

12)
sakila=> select first_name, last_name from customer where customer.address_id in (select address_id from address where postal_code like '1___');
```
 first_name | last_name
------------+-----------
 LISA       | ANDERSON
 RACHEL     | BARNES
 ELSIE      | KELLEY
 MARLENE    | WELCH
 STEPHEN    | QUALLS
 RAFAEL     | ABNEY
 KENT       | ARSENAULT
(7 rows)
```

13) (4)
sakila=> select count(*) from customer inner join address using (address_id) where postal_code like '1%1';
```
 count
-------
     4
(1 row)
```