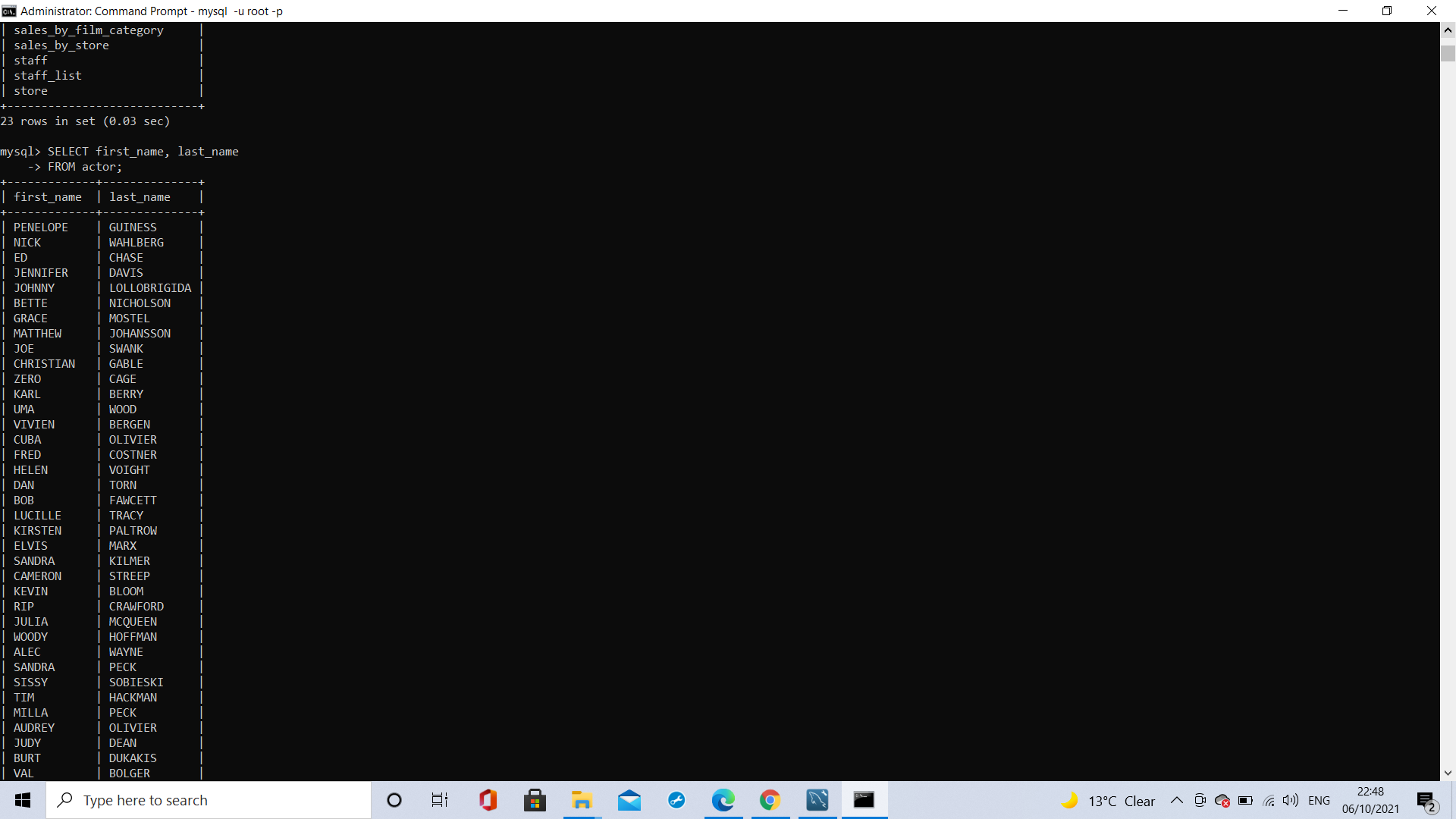
### **Purvi - Sakila Challenge**

### 

### **1) List all actors.**

SELECT first\_name, last\_name

FROM actor;

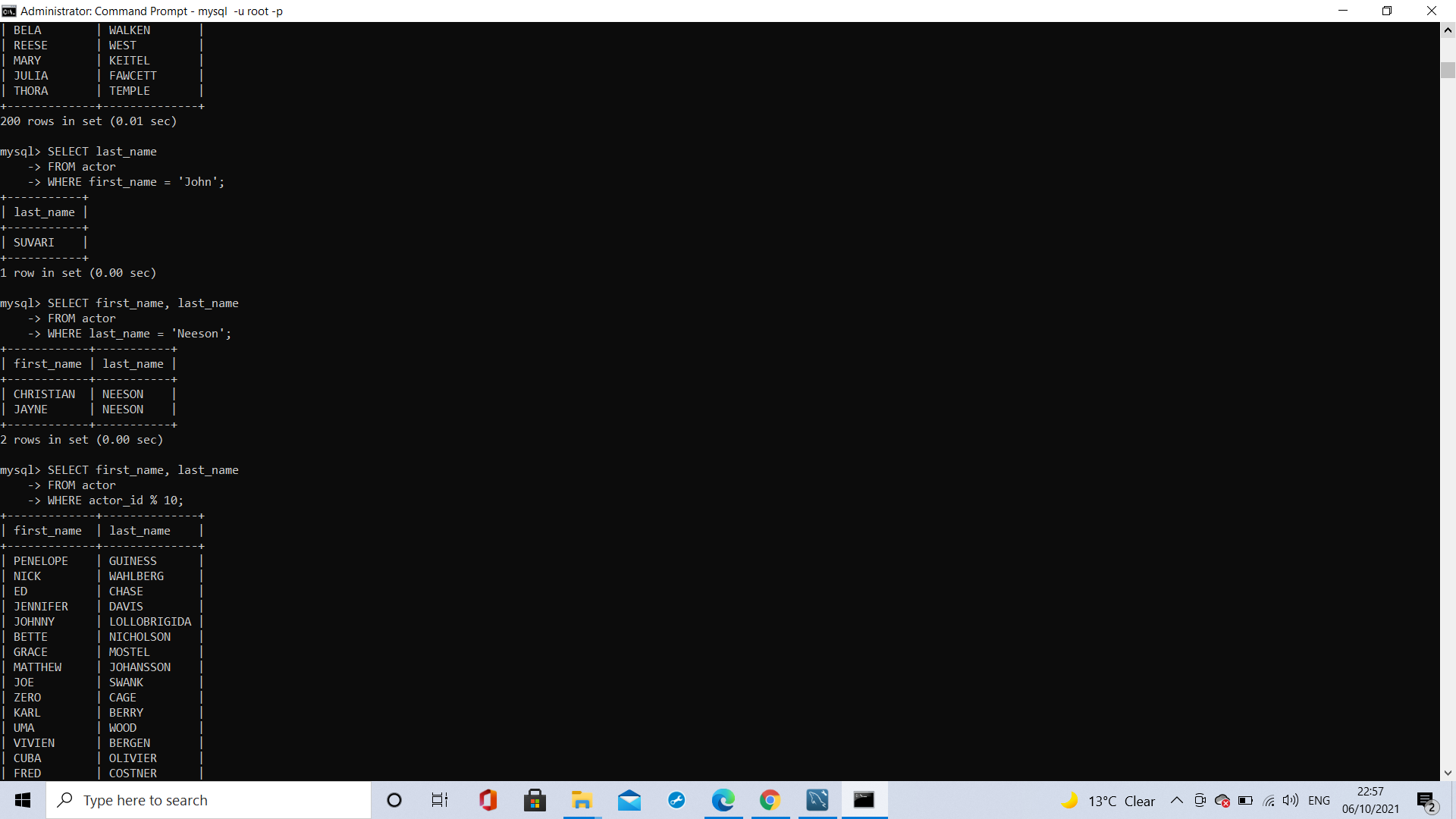


### **2) Find the surname of the actor with the forename 'John'.**

SELECT last\_name

FROM actor

WHERE first\_name='John';

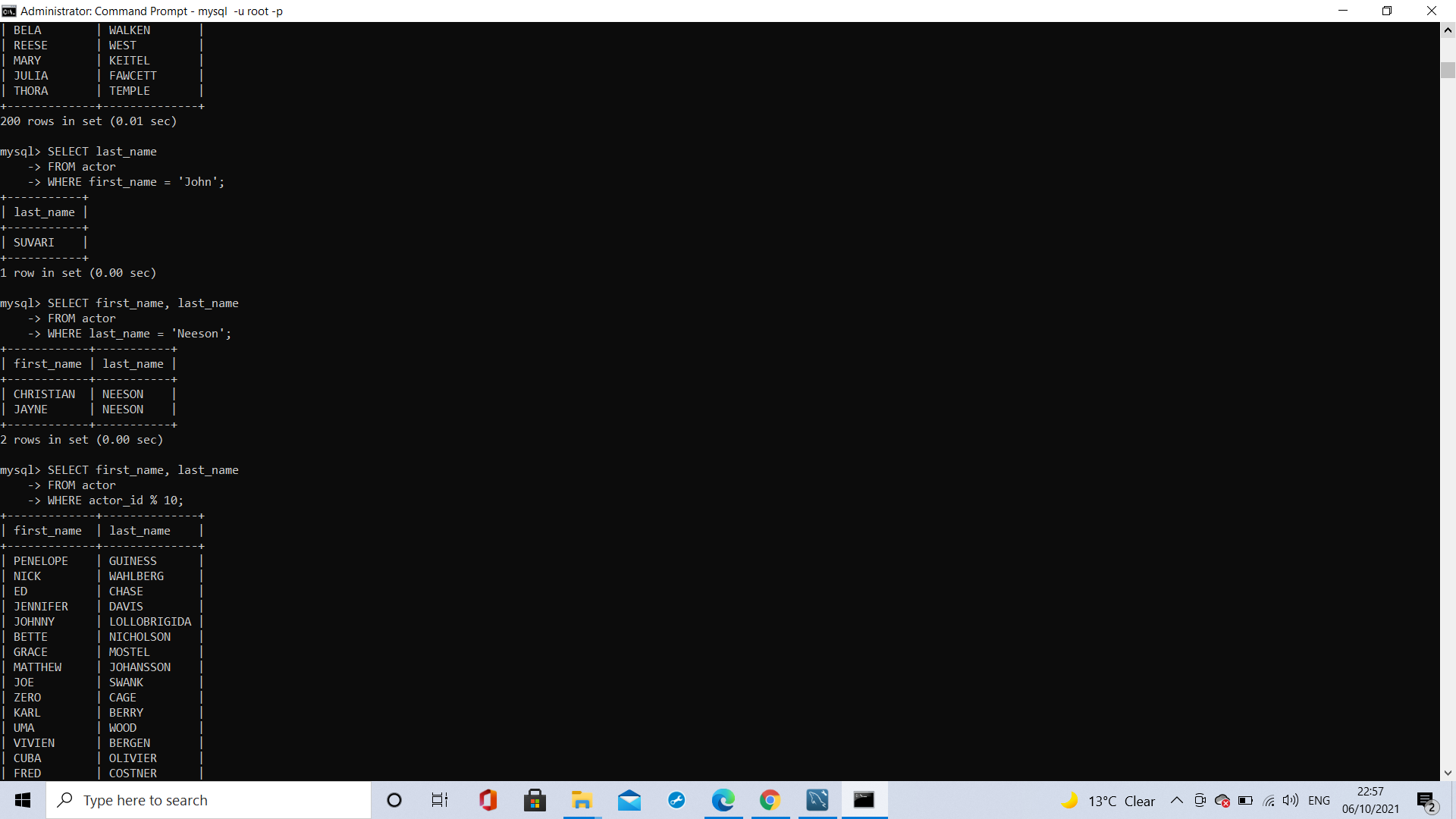


### **3) Find all actors with surname 'Neeson'.**

SELECT first\_name, last\_name

FROM actor

WHERE last\_name='Neeson';

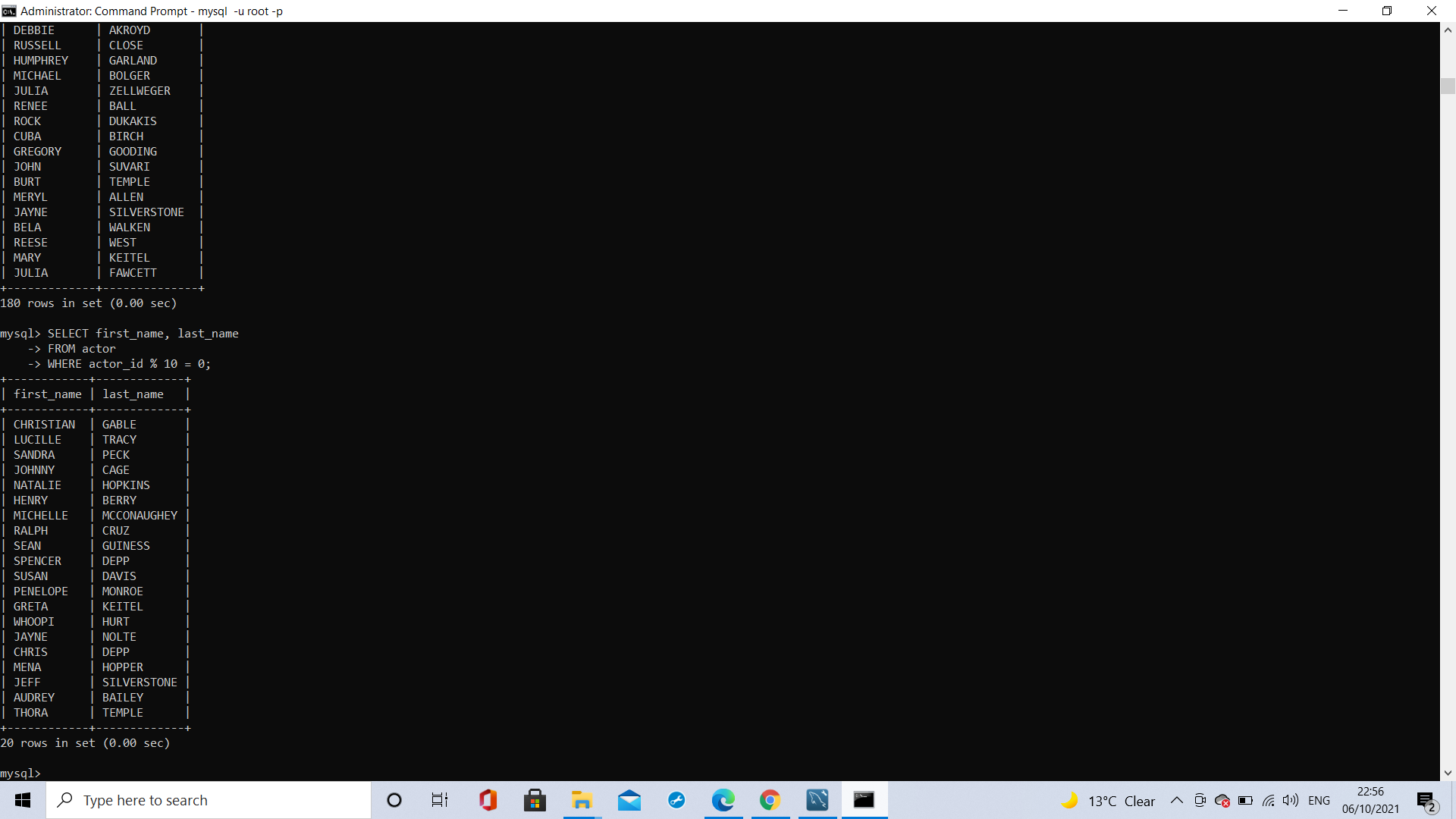


### **4) Find all actors with ID numbers divisible by 10.**

SELECT first\_name, last\_name

FROM actor

WHERE actor\_id % 10 = 0;

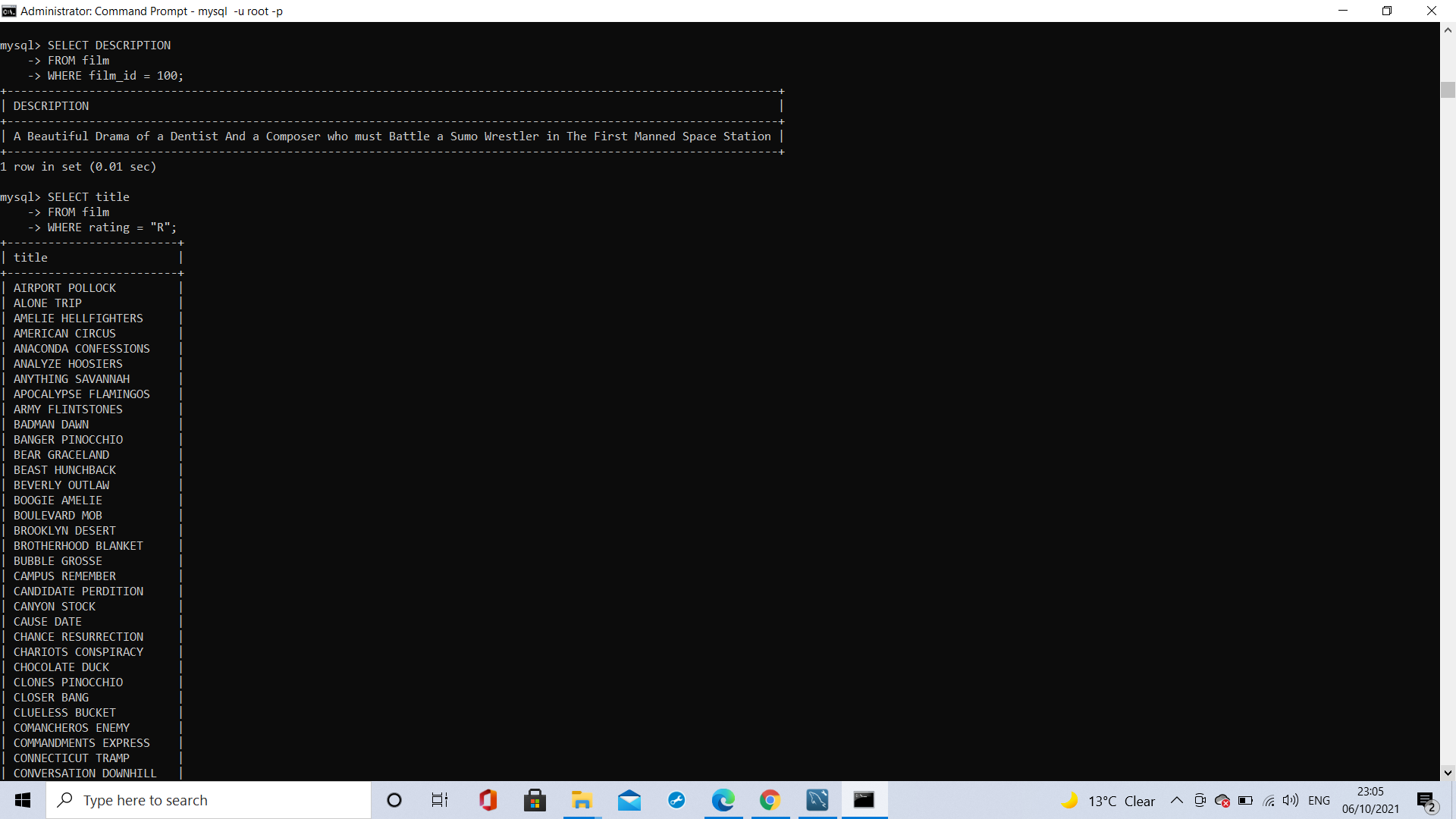


### **5) What is the description of the movie with an ID of 100?**

SELECT description

FROM film

WHERE film\_id=100;

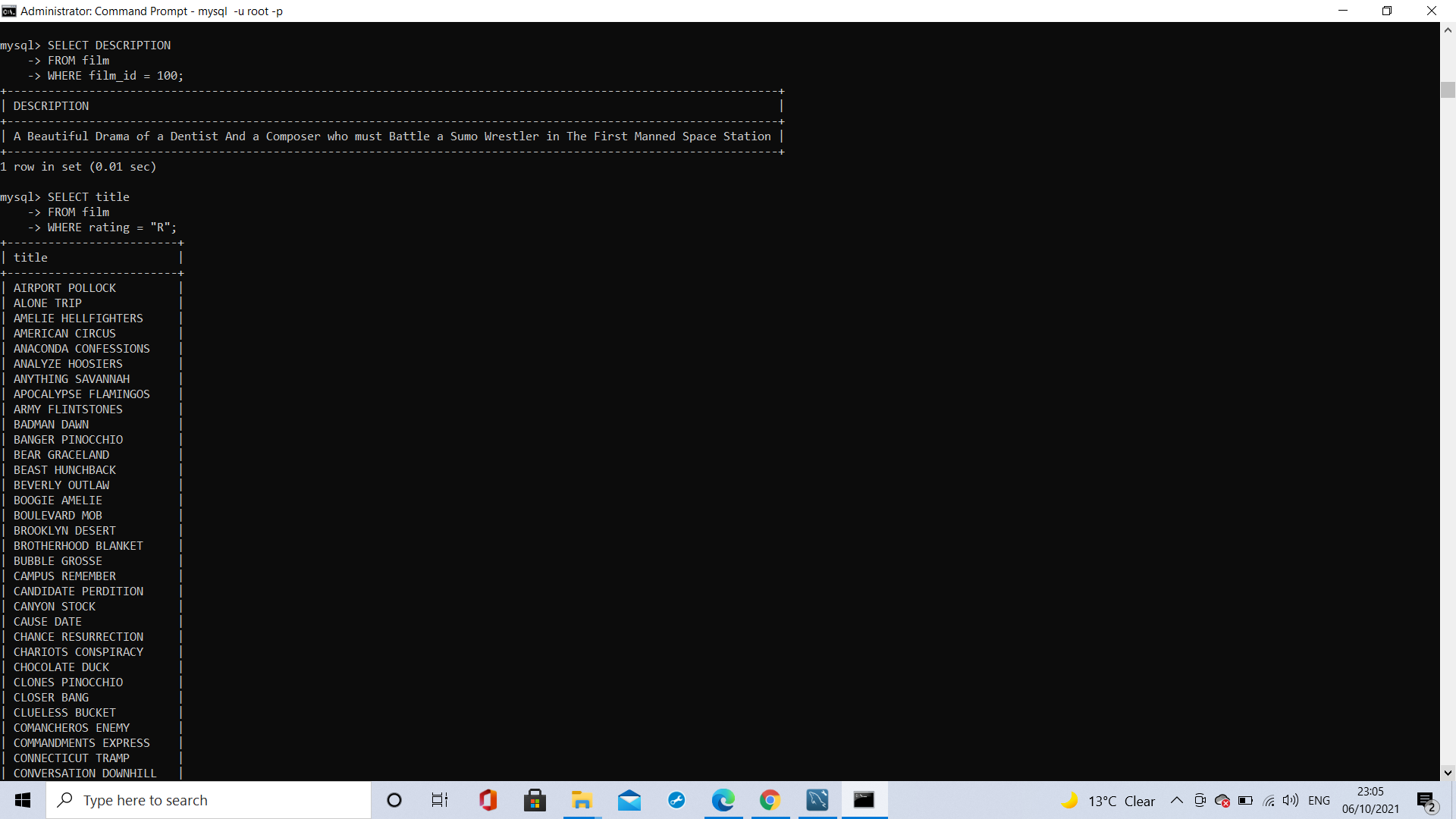


### **6) Find every R-rated movie.**

SELECT title

FROM film

WHERE rating='R';

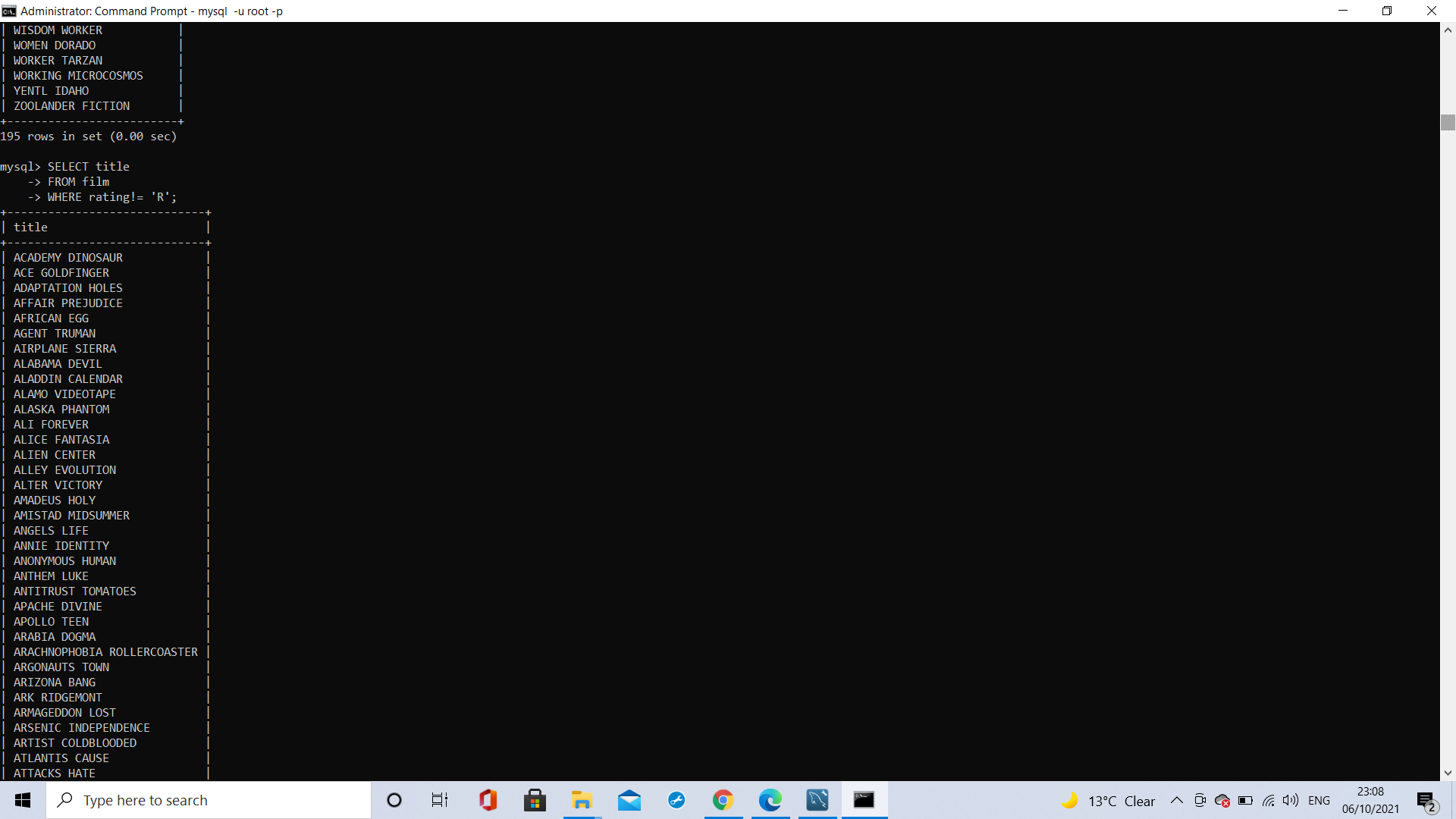


### **7) Find every non-R-rated movie.**

SELECT title

FROM film

WHERE rating!='R';



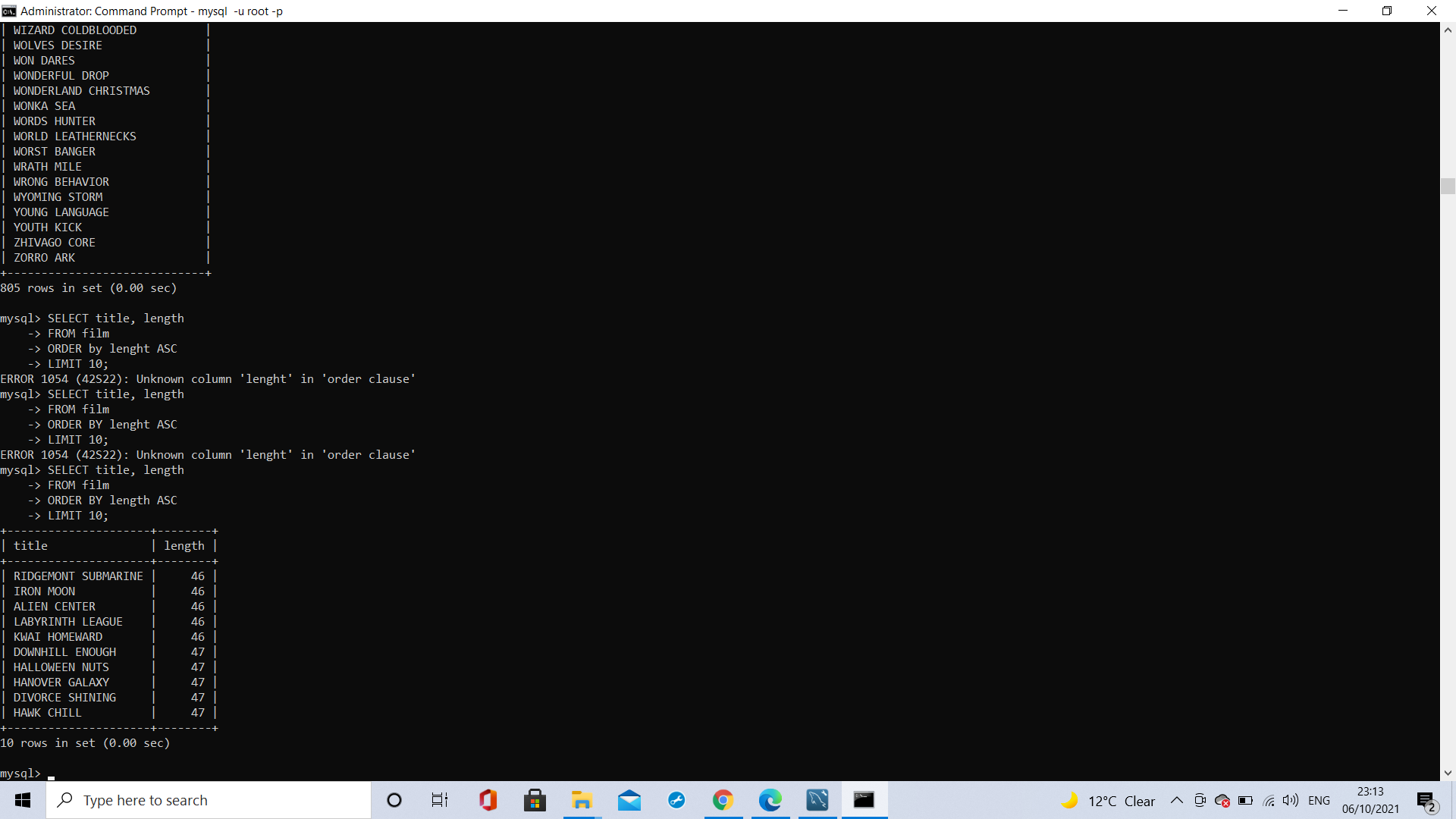
### **8) Find the ten shortest movies.**

SELECT title, length

FROM film

ORDER BY length ASC

LIMIT 10;



### **9) Find the movies with the longest runtime, without using LIMIT.**

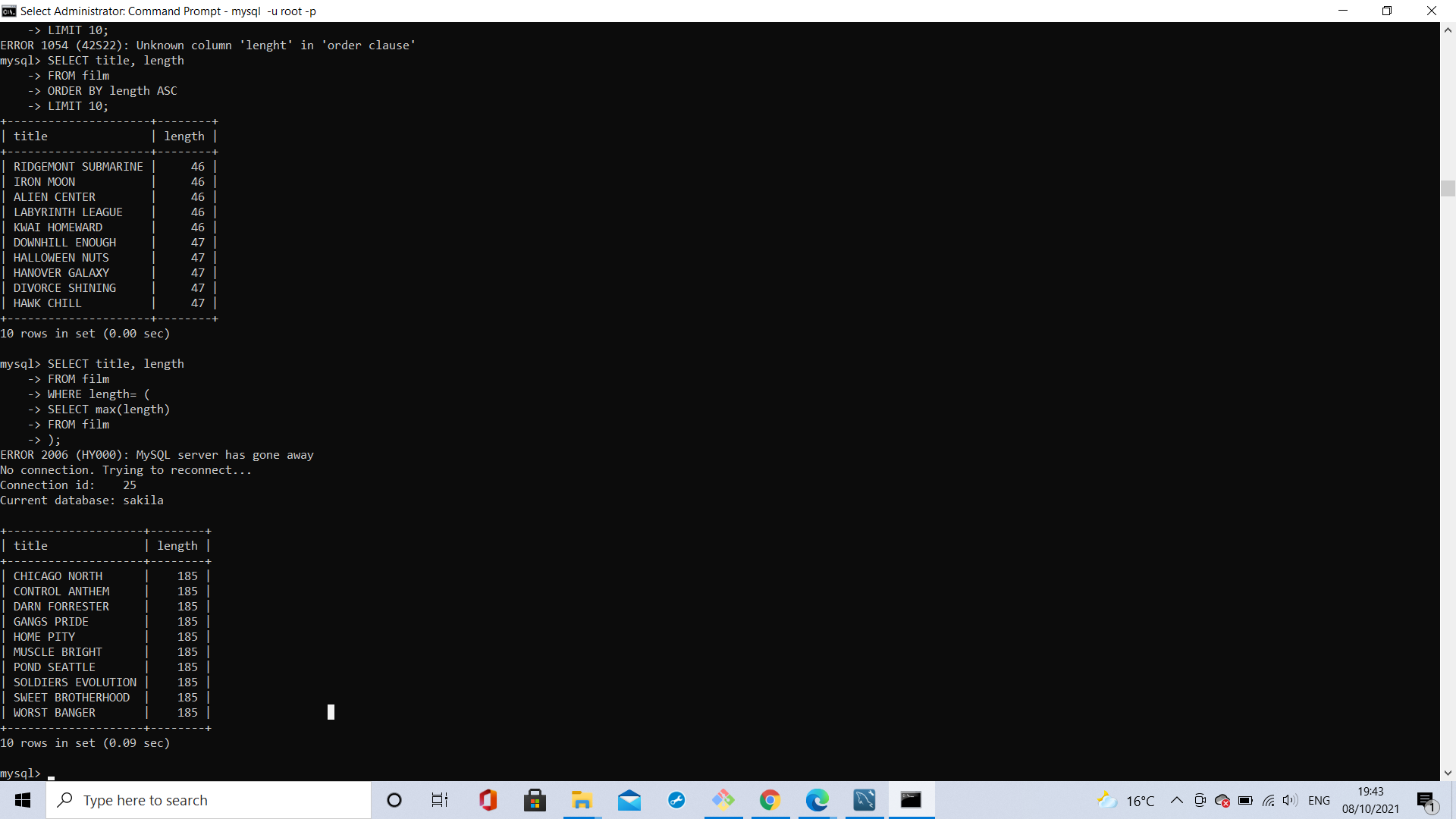
SELECT title, length

FROM film

WHERE length= (

SELECT max(length)

FROM film);

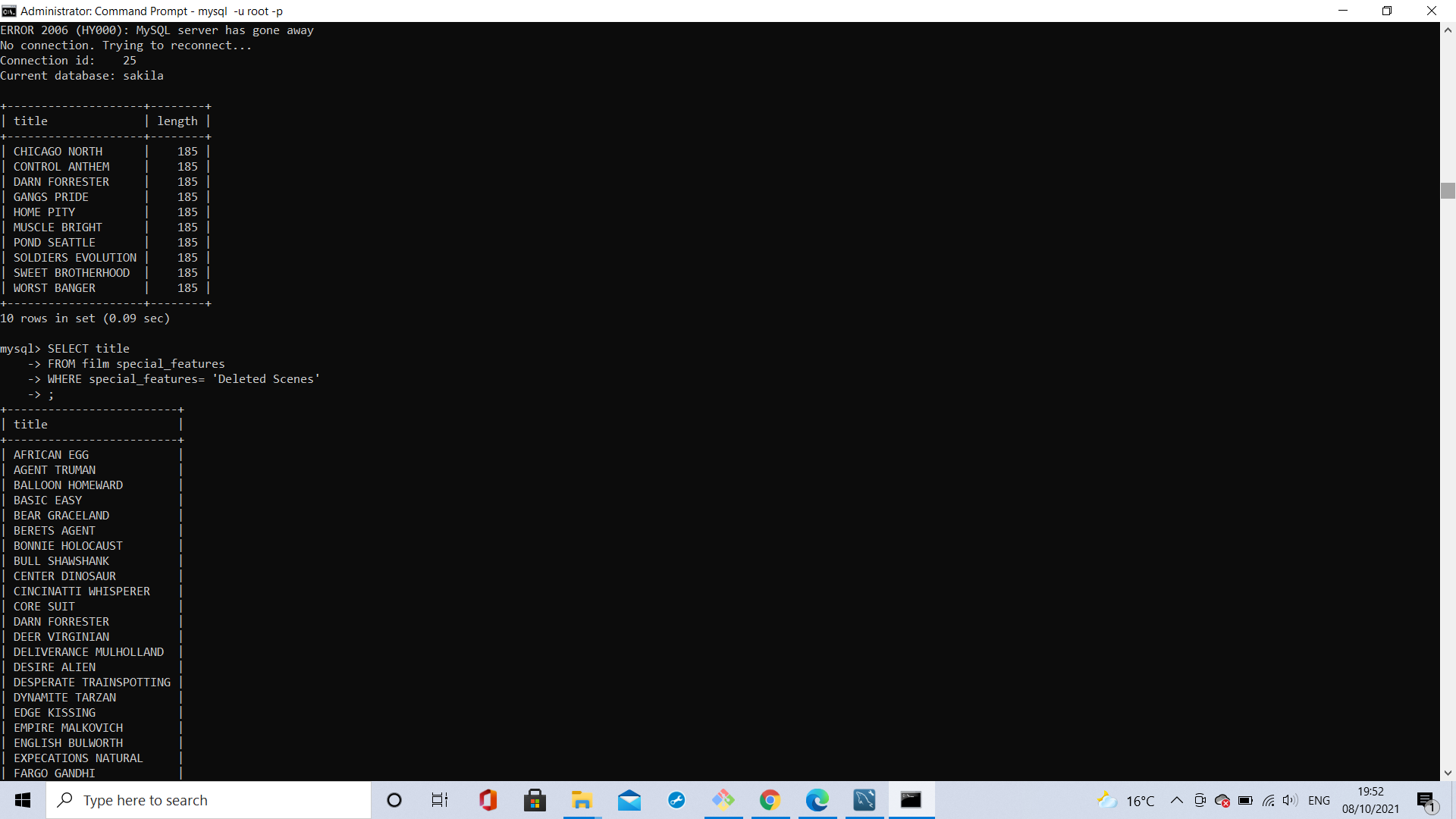


### **10) Find all movies that have deleted scenes.**

SELECT title

FROM film

WHERE special\_features='Deleted Scenes';



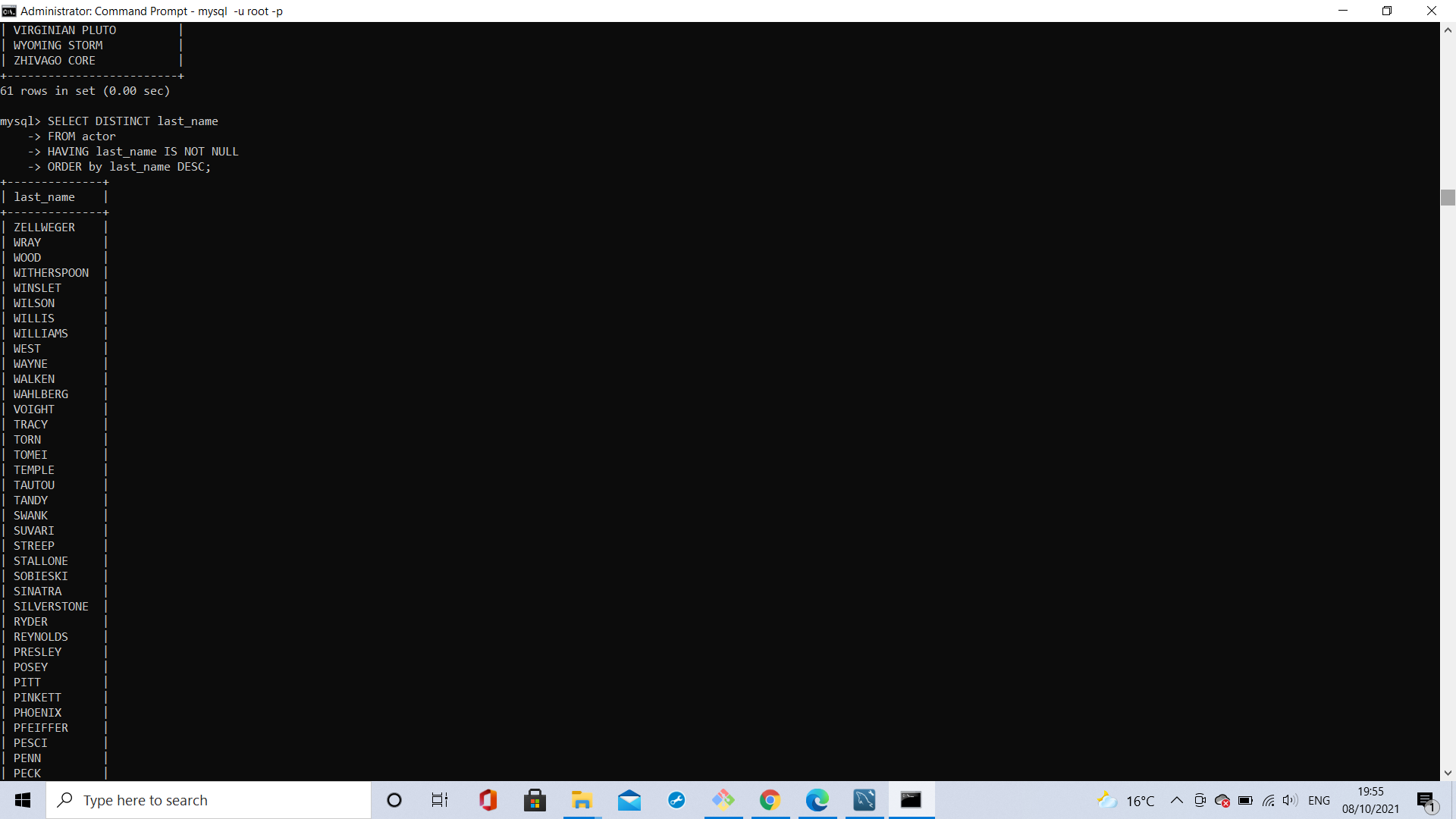
### **11) Using HAVING, reverse-alphabetically list the last names that are not repeated.**

SELECT DISTINCT last\_name

FROM actor

HAVING last\_name IS NOT NULL

ORDER BY last\_name DESC;



### **12) Using HAVING, list the last names that appear more than once, from highest to lowest frequency.**

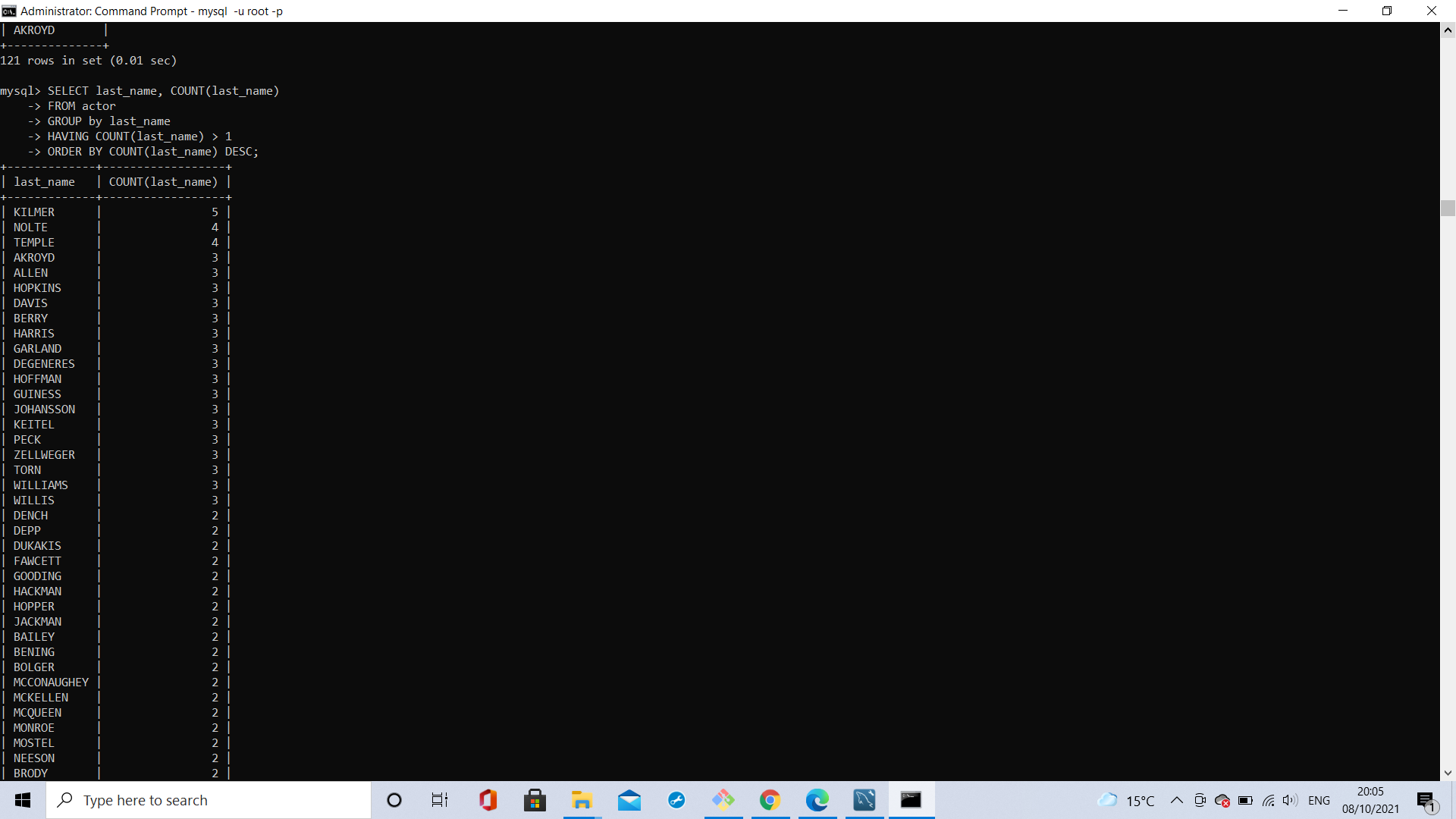
SELECT last\_name, COUNT(last\_name)

FROM actor

GROUP BY last\_name

HAVING COUNT(last\_name) > 1

ORDER BY COUNT(last\_name) DESC;



### **13) Which actor has appeared in the most films?**

SELECT actor\_info.first\_name, actor\_info.last\_name

FROM actor\_info

JOIN film\_actor ON actor\_info.actor\_id=film\_actor.actor\_id

GROUP BY actor\_info.actor\_id

ORDER BY COUNT(\*) DESC

LIMIT 1;

OR

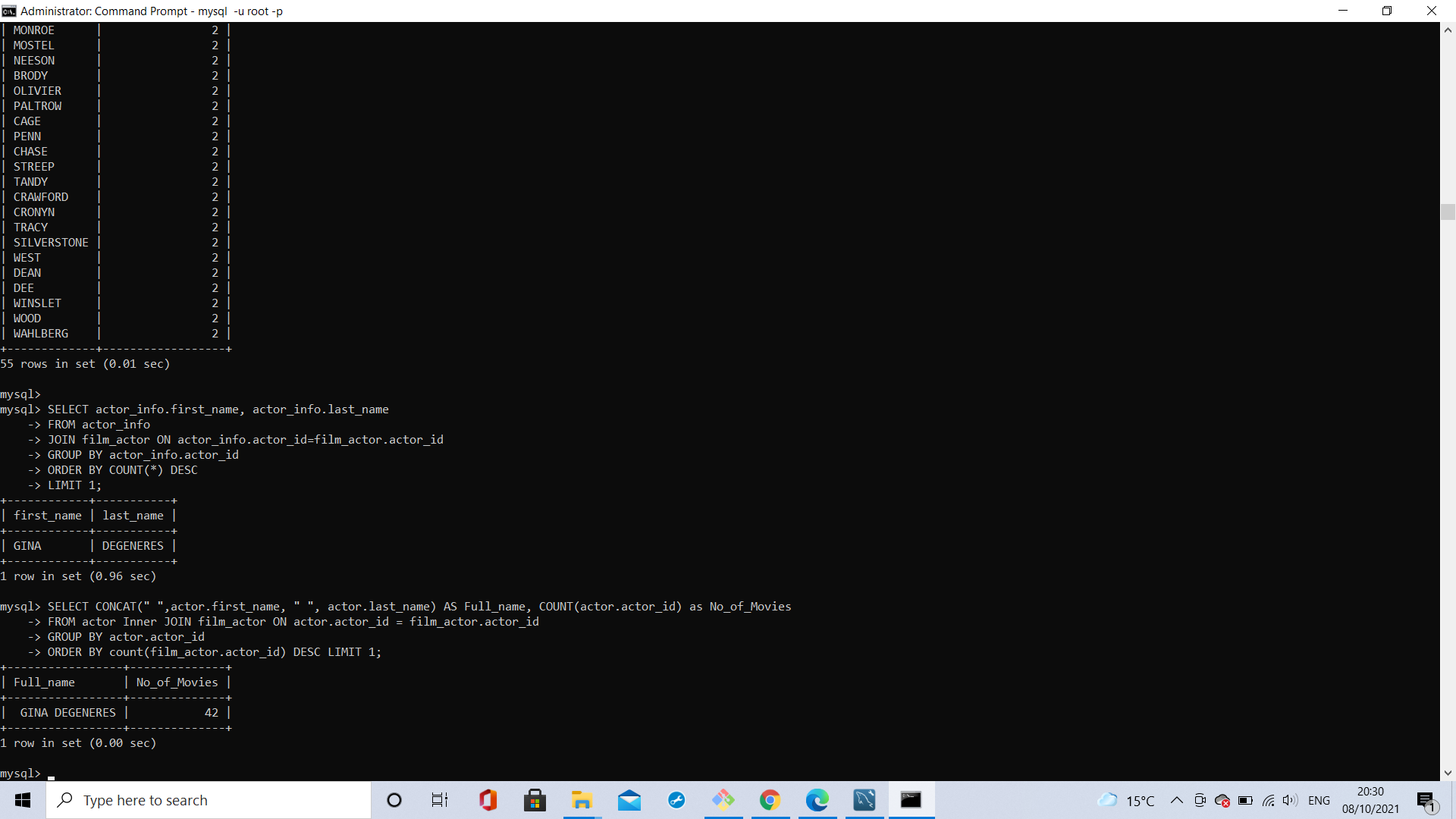
SELECT CONCAT(" ",actor.first\_name, " ", actor.last\_name) AS Full\_name, COUNT(actor.actor\_id) as No\_of\_Movies

FROM actor Inner

JOIN film\_actor ON actor.actor\_id = film\_actor.actor\_id

GROUP BY actor.actor\_id

ORDER BY count(film\_actor.actor\_id) DESC LIMIT 1;



### **14) When is 'Academy Dinosaur' due?**

SELECT film.title, DATE\_ADD(rental.rental\_date, INTERVAL film.rental\_duration DAY) AS due\_date

FROM film

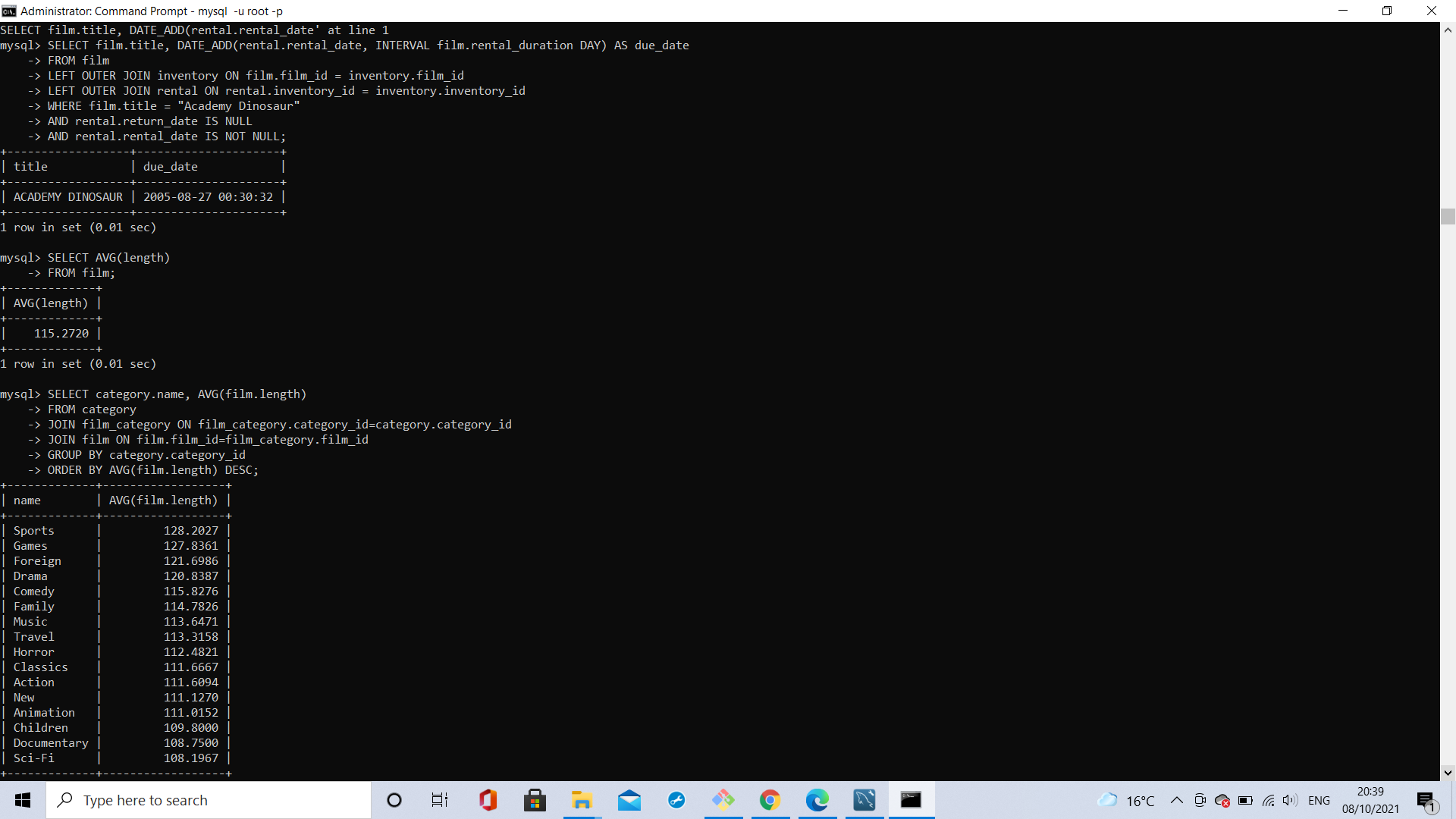
LEFT OUTER JOIN inventory ON film.film\_id = inventory.film\_id

LEFT OUTER JOIN rental ON rental.inventory\_id = inventory.inventory\_id

WHERE film.title = "Academy Dinosaur"

AND rental.return\_date IS NULL

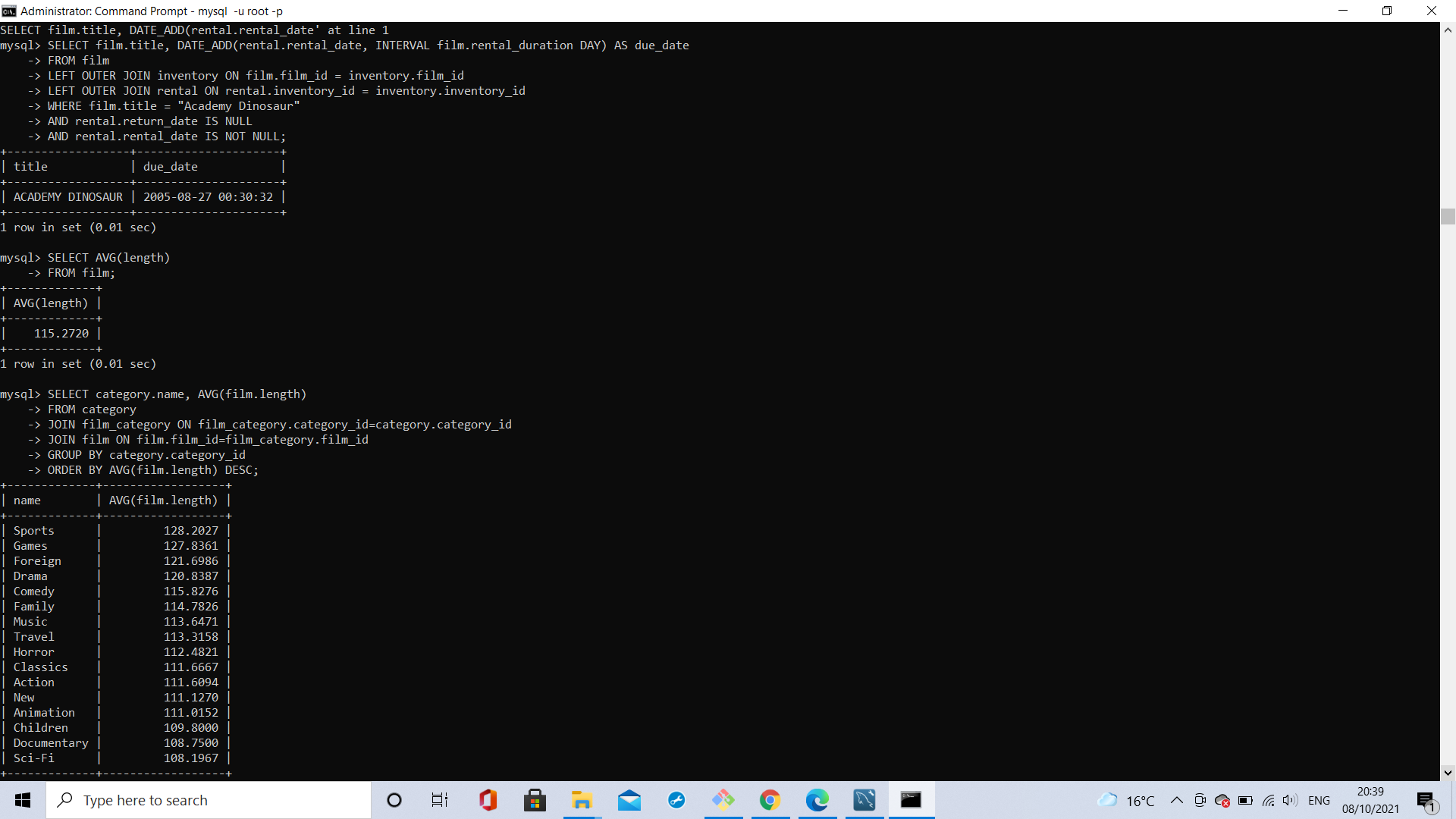
AND rental.rental\_date IS NOT NULL;



### **15)What is the average runtime of all films?**

SELECT AVG(length)

FROM film;



### **16) List the average runtime for every film category.**

SELECT category.name, AVG(film.length)

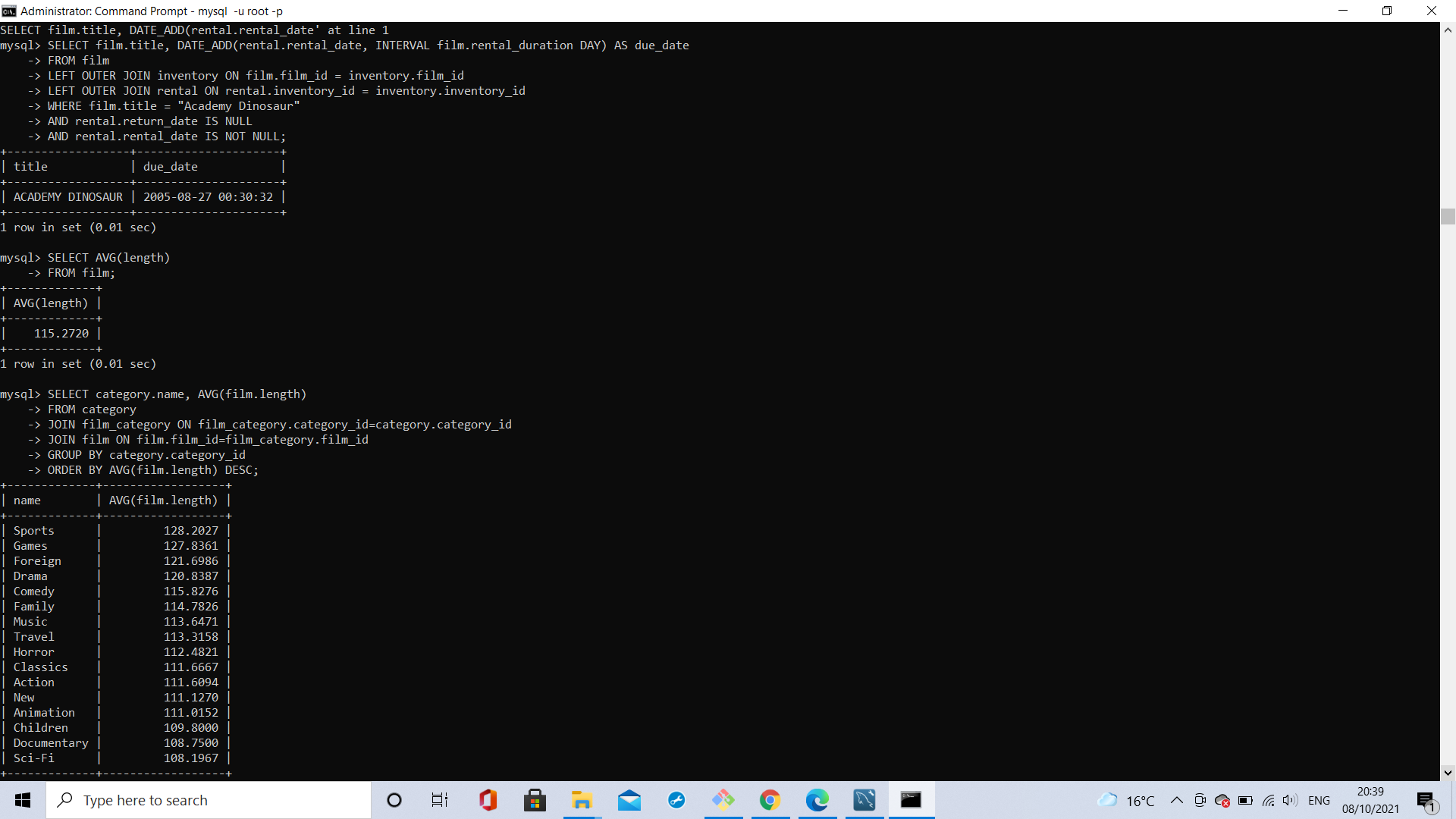
FROM category

JOIN film\_category ON film\_category.category\_id=category.category\_id

JOIN film ON film.film\_id=film\_category.film\_id

GROUP BY category.category\_id

ORDER BY AVG(film.length) DESC;



### **17) List all movies featuring a robot.**

SELECT film.title

FROM film\_text

JOIN film ON film.film\_id=film\_text.film\_id

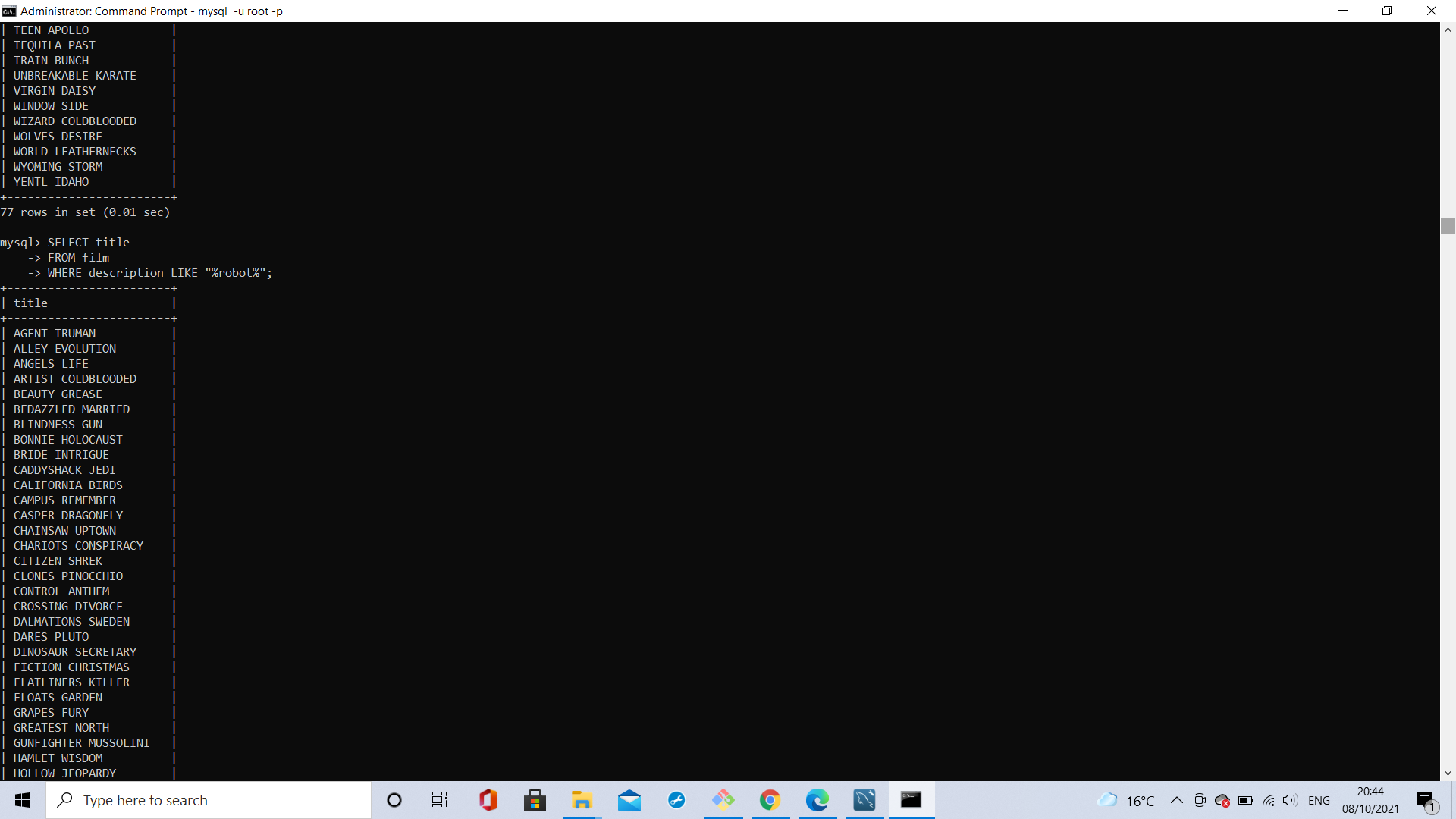
WHERE film\_text.description LIKE '%robot%';

OR

SELECT title

FROM film

WHERE description LIKE "%robot%";

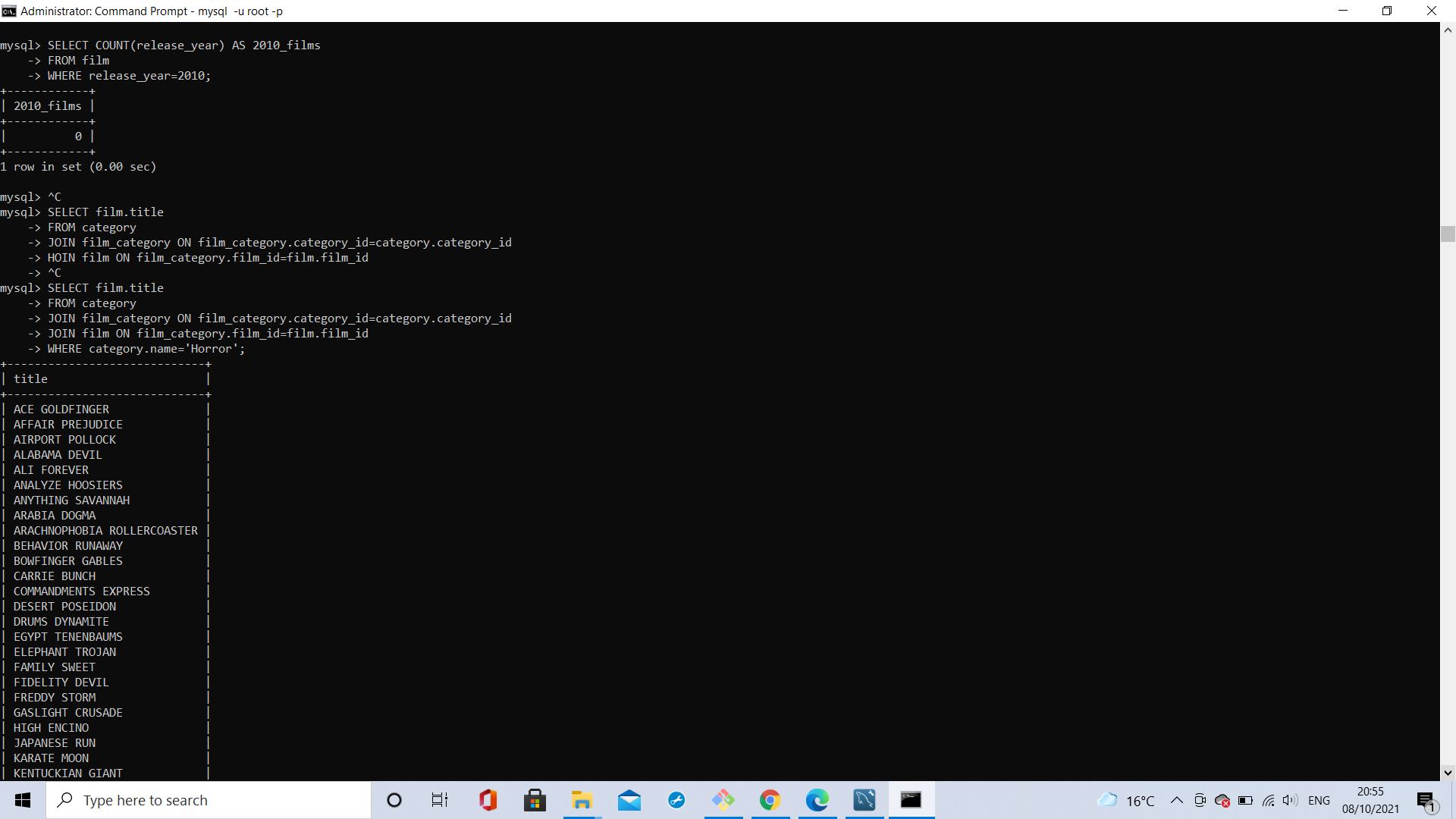


### **18) How many movies were released in 2010?**

SELECT COUNT(release\_year) AS 2010\_films

FROM film

WHERE release\_year=2010;



### **19) Find the titles of all the horror movies.**

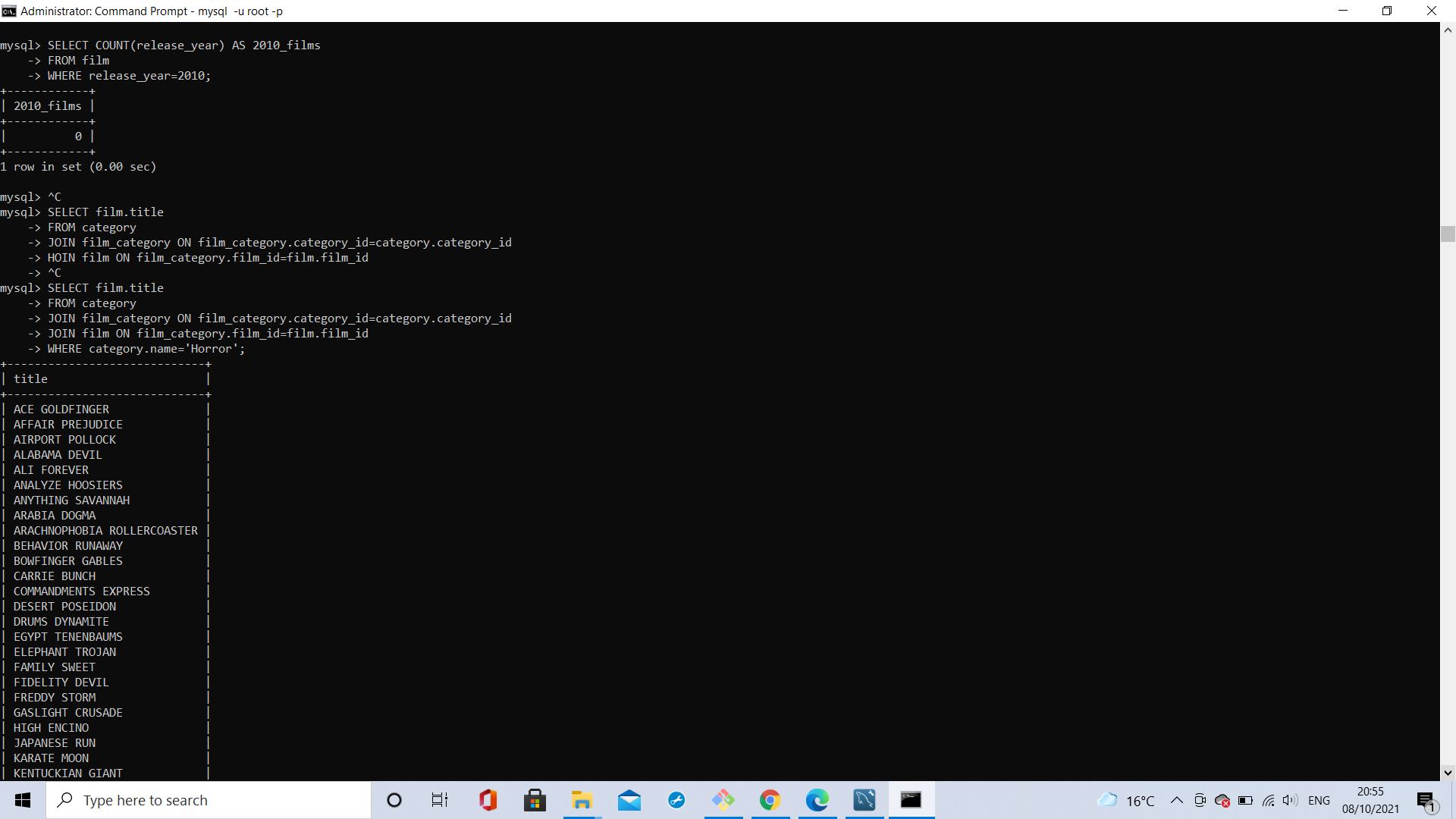
SELECT film.title

FROM category

JOIN film\_category ON film\_category.category\_id=category.category\_id

JOIN film ON film\_category.film\_id=film.film\_id

WHERE category.name='Horror';

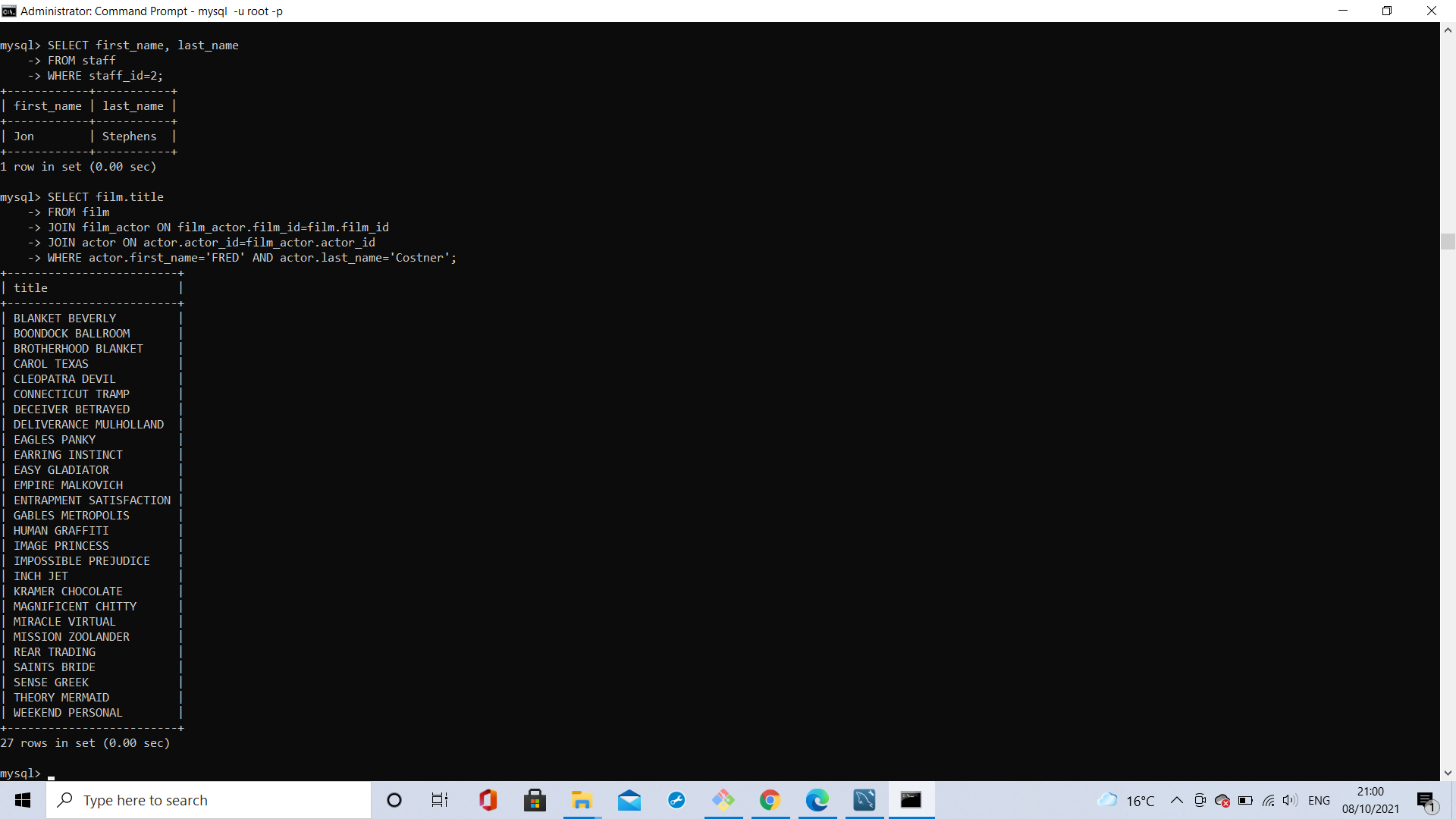


### **20) List the full name of the staff member with the ID of 2.**

SELECT first\_name, last\_name

FROM staff

WHERE staff\_id=2;



### **21) List all the movies that Fred Costner has appeared in.**

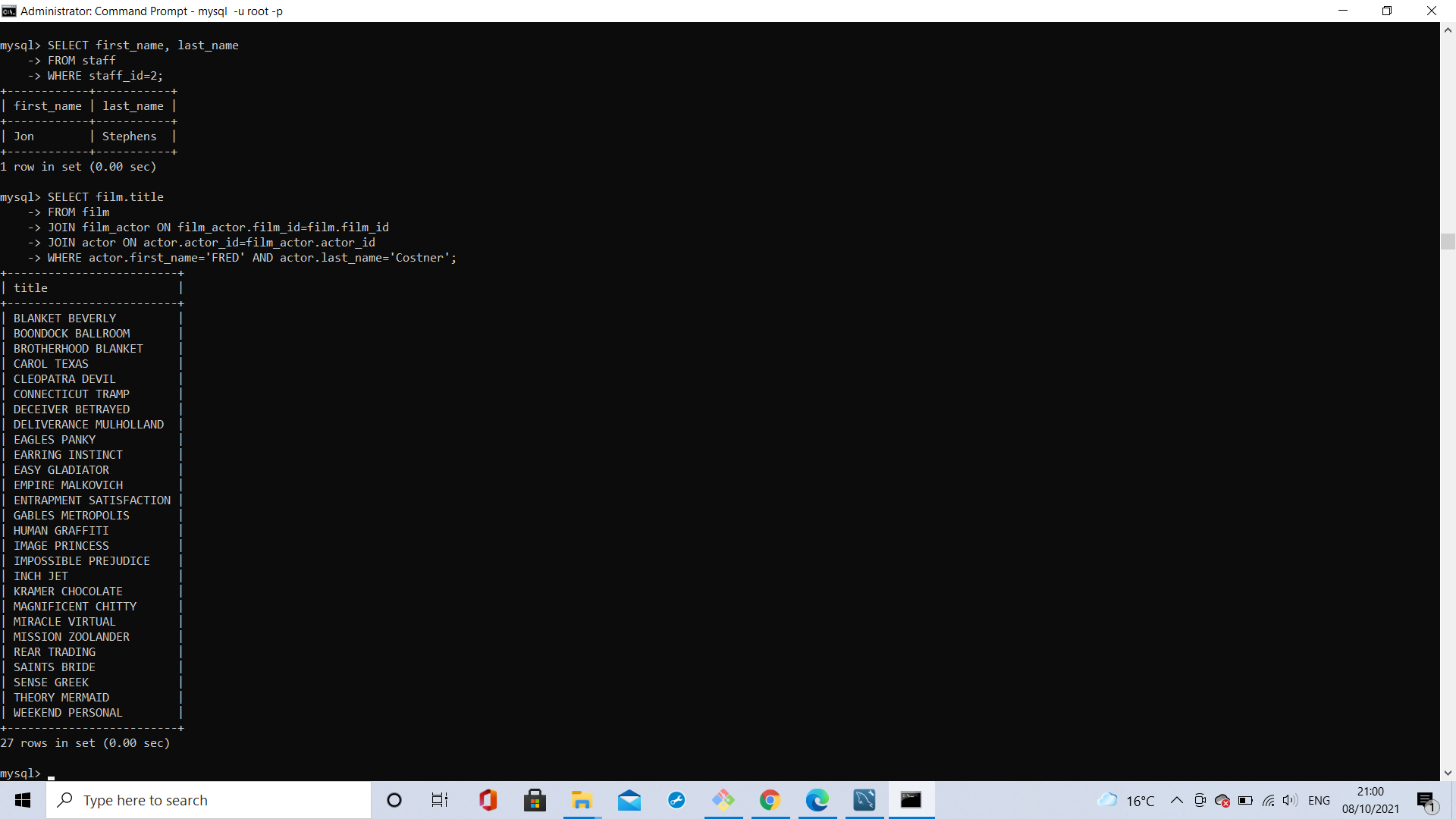
SELECT film.title

FROM film

JOIN film\_actor ON film\_actor.film\_id=film.film\_id

JOIN actor ON actor.actor\_id=film\_actor.actor\_id

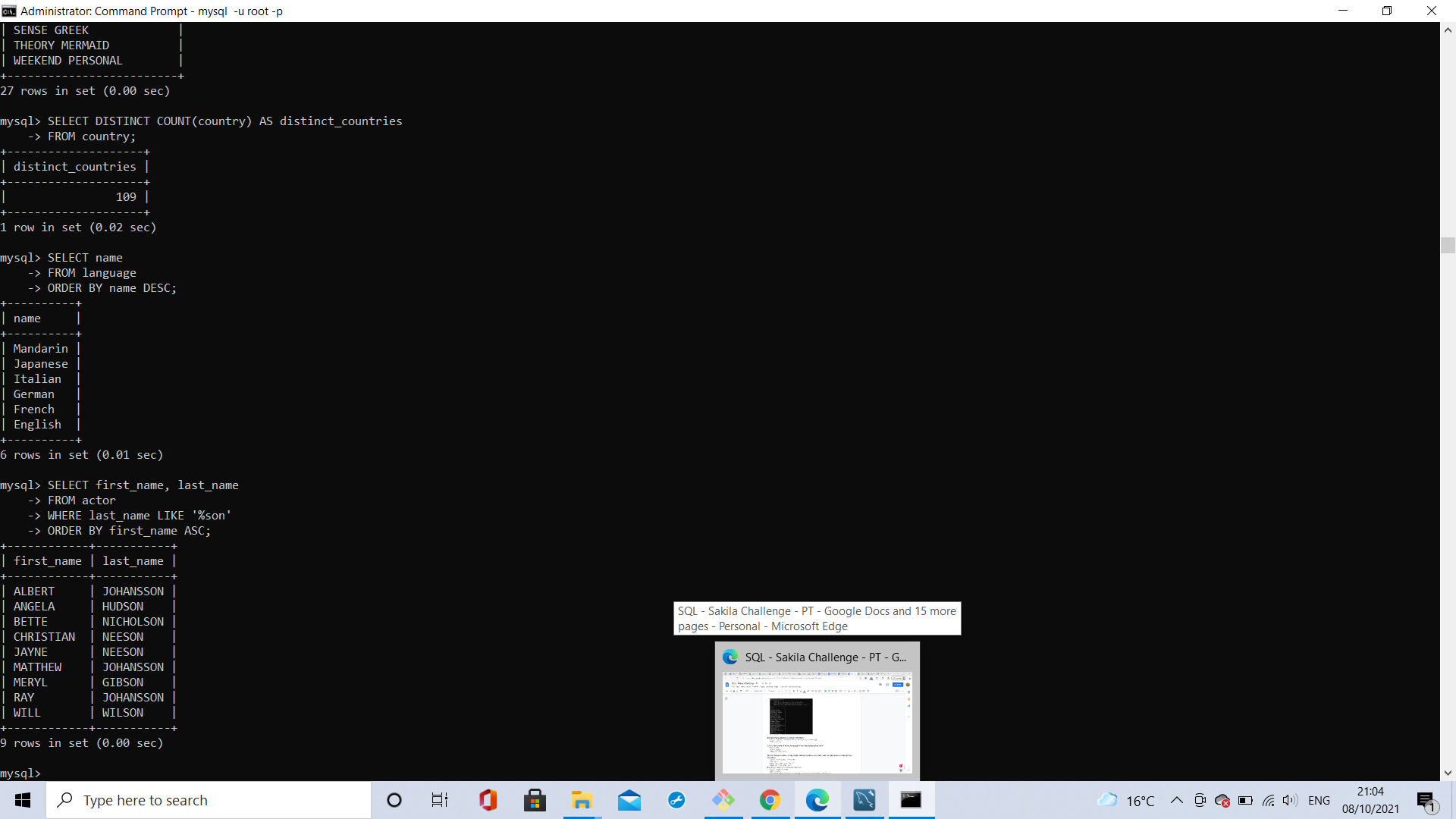
WHERE actor.first\_name='FRED' AND actor.last\_name='Costner';



### **22) How many distinct countries are there?**

SELECT DISTINCT COUNT(country) AS distinct\_countries

FROM country;



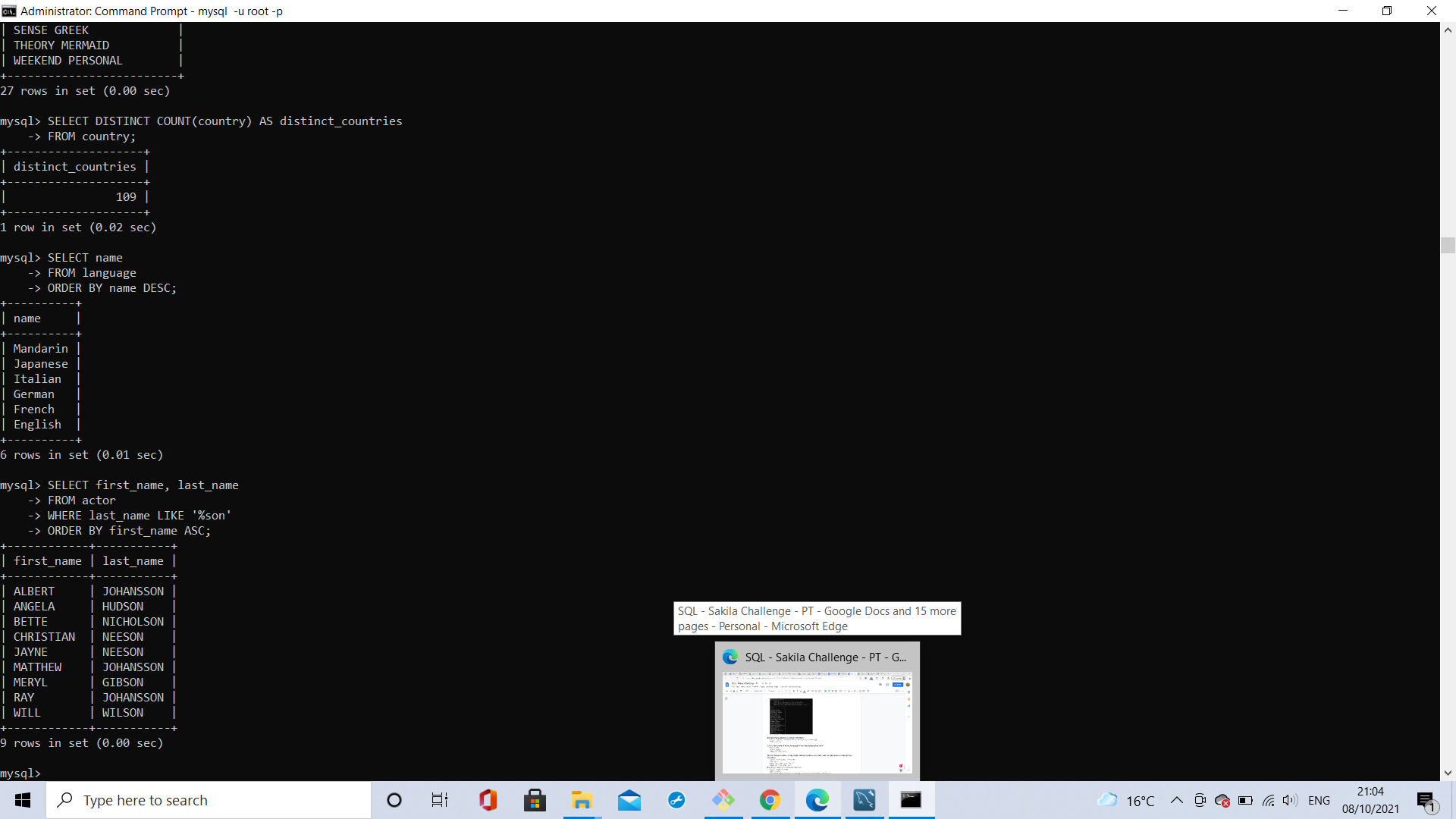
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### **23) List the name of every language in reverse-alphabetical order.**

SELECT name

FROM language

ORDER BY name DESC;



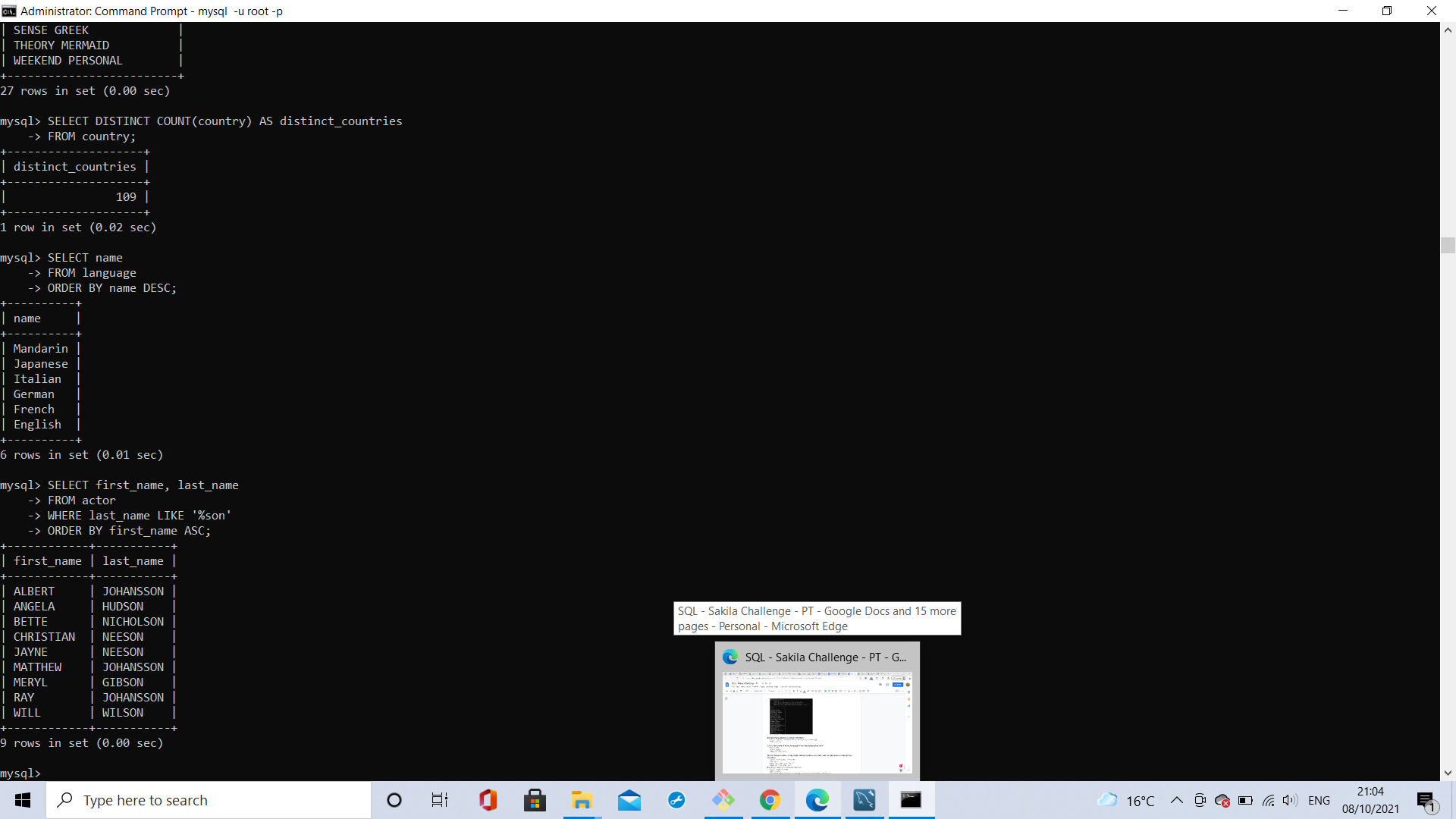
### **24) List the full names of every actor whose surname ends with '-son' in alphabetical order by their forename.**

SELECT first\_name, last\_name

FROM actor

WHERE last\_name LIKE '%son'

ORDER BY first\_name ASC;



### **25) Which category contains the most films?**

SELECT category.name

FROM category

JOIN film\_category ON film\_category.category\_id=category.category\_id

GROUP BY category.category\_id

ORDER BY COUNT(film\_category.category\_id) DESC

LIMIT 1;

