

The image shows a Windows 10 desktop environment. On the left side, there is a vertical taskbar with several icons: a calendar, a recycle bin, a folder named 'Software', a folder named 'bootstrap-5...', a folder named 'College_CS', a folder named 'Software BootCamp', and a folder named 'Outside School'. The main area of the screen is occupied by a web browser window running pgAdmin 4. The browser's address bar shows the URL '127.0.0.1:49951/browser/'. The pgAdmin 4 interface is visible, showing a tree view on the left with 'Servers (1)' > 'PostgreSQL 13' > 'Databases (3)' > 'test'. The 'Query Editor' is open, displaying a SQL query. The query is as follows:

```
--Part A:
/*
1. Select the first and last names of all the actors who have starred
in movies directed by Wes Anderson
2. Which director has the highest domestic takings.
*/
--1--
SELECT a.first_name, a.last_name
FROM actors a
JOIN movies_actors ma ON a.actor_id=ma.actor_id
JOIN movies m ON ma.movie_id=m.movie_id
JOIN directors d ON d.director_id=m.director_id
WHERE d.first_name = 'Wes'
AND d.last_name='Anderson'
--2--
SELECT d.first_name, d.last_name
FROM directors d
JOIN movies m ON d.director_id = m.director_id
JOIN movie_revenues mr ON mr.movie_id = m.movie_id
```

The 'Data Output' section shows the results of the query:

	first_name character varying (30)	last_name character varying (30)
1	Adrien	Brody
2	Willem	Dafoe
3	Ralph	Fiennes
4	Jeff	Goldblum
5	Jude	Law
6	Bill	Murray

A notification at the bottom right of the pgAdmin window states: 'Successfully run. Total query runtime: 34 msec. 20 rows affected.' The Windows taskbar at the bottom shows the Start button, a search bar, and several application icons including File Explorer, Chrome, VS Code, and others. The system clock in the bottom right corner shows the time as 10:27 PM on 1/31/2021.

calendar-1...

Recycle Bin

Software

bootstrap-5...

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pgAdmin 4

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Query Editor

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--1--

SELECT a.first_name, a.last_name FROM actors a

WHERE date_of_birth >

(SELECT date_of_birth FROM actors WHERE first_name = 'Marlon'

AND last_name = 'Brando');

--2--

SELECT m.movie_name

FROM movies m

JOIN movie_revenues mr ON m.movie_id=mr.movie_id

WHERE mr.domestic_takings > 300;

SELECT MAX(movie_length), MIN(movie_length)

FROM movies

WHERE movie_id IN (SELECT movie_id FROM movie_revenues

WHERE domestic_takings >

(SELECT AVG(mr.domestic_takings) FROM movie_revenues)

Query History

Notifications

Successfully run. Total query runtime: 35 msec. 7 rows affected.

Data Output

	movie_name	
1	Forrest Gump	
2	Spider-Man	
3	Spider-Man 2	
4	Spider-Man 3	
5	Star Wars: A New Hope	
6	Star Wars: Return of the Jedi	

Successfully run. Total query runtime: 35 msec. 7 rows affected.

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Query Editor

12 JOIN directors d ON d.director_id=m.director_id

13 WHERE d.first_name = 'Wes'

14 AND d.last_name='Anderson'

15

16 --2--

17 SELECT d.first_name, d.last_name

18 FROM directors d

19 JOIN movies m ON d.director_id = m.director_id

20 JOIN movie_revenues mr ON mr.movie_id = m.movie_id

21 WHERE domestic_takings IS NOT NULL

22 GROUP BY d.first_name, d.last_name

23 ORDER BY SUM(mr.domestic_takings) DESC

24

25

26 --PART B

27 /*

28 1. Select the first and last names of all the actors older than Marlon

29 Brandow

30 2. Select the movie names of all movies that have domestic takings

31 above 300 million

Query History

Notifications

Successfully run. Total query runtime: 36 msec. 34 rows affected.

Data Output

	first_name character varying (30)	last_name character varying (30)
1	Sam	Raimi
2	George	Lucas
3	James	Cameron
4	Robert	Zemeckis
5	Steven	Spielberg
6	Ana	Lee

Successfully run. Total query runtime: 36 msec. 34 rows affected.

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WHERE movie_id IN (SELECT movie_id FROM movie_revenues

WHERE domestic_takings >

(SELECT AVG(mr.domestic_takings) FROM movie_revenues)

--PART C

/*

1. Select the first name, last name and date of birth for the oldest actors of each

2. Select the movie name, movie length and age certificate for movies with an above

length for their age certificate

*/

SELECT first_name, last_name, date_of_birth FROM actors

WHERE date_of_birth IS NOT NULL

ORDER BY MAX(date_of_birth) AND actor.gender='F'

SELECT movie_name, movie_length, age_certificate FROM movies

WHERE

Successfully run. Total query runtime: 32 msec. 24 rows affected.

Data Output

	movie_id integer	movie_name character varying (50)	first_name character varying (30)	last_name character varying (30)
1	20	Let the Right One In	Tomas	Alfredson
2	40	The Darjeeling Limited	Wes	Anderson
3	15	Grand Budapest Hotel	Wes	Anderson
4	41	The Fifth Element	Luc	Besson
5	48	Titanic	James	Cameron
6	26	Pans Labyrinth	Guillermo	del Toro

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26 --PART B

27 /*

28 1. Select the first and last names of all the actors older than Marlon

29 Brando

30 2. Select the movie names of all movies that have domestic takings

31 above 300 million

32 3.Return the shortest and longest movie length for movies with an

33 above verage domestic takings

34 */

35

36 --1.--

37 SELECT a.first_name, a.last_name FROM actors a

38 WHERE date_of_birth >

39 (SELECT date_of_birth FROM actors WHERE first_name = 'Marlon'

40 AND last_name = 'Brando');

41

42 --2--

43 SELECT m.movie_name

Query History

Notifications

Successfully run. Total query runtime: 36 msec. 140 rows affected.

Data Output

	first_name character varying (30)	last_name character varying (30)
1	Malin	Akerman
2	Tim	Allen
3	Julie	Andrews
4	Ivana	Baquero
5	Lorraine	Bracco
6	Alice	Braqa

Successfully run. Total query runtime: 36 msec. 140 rows affected.

Type here to search

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