

PostgreSQL Practice Questions - Sure Pro Education

Instruction: Solve each question and upload the solution file to GitHub. Then, share your project and learning outcomes on LinkedIn as done in previous projects.

1. List the first name and last name of all customers.
2. Find all the movies that are currently rented out.
3. Show the titles of all movies in the 'Action' category.
4. Count the number of films in each category.
5. What is the total amount spent by each customer?
6. Find the top 5 customers who spent the most.
7. Display the rental date and return date for each rental.
8. List the names of staff members and the stores they manage.
9. Find all customers living in 'California'.
10. Count how many customers are from each city.
11. Find the film(s) with the longest duration.
12. Which actors appear in the film titled 'Alien Center'?
13. Find the number of rentals made each month.
14. Show all payments made by customer 'Mary Smith'.
15. List all films that have never been rented.
16. What is the average rental duration per category?
17. Which films were rented more than 50 times?
18. List all employees hired after the year 2005.
19. Show the number of rentals processed by each staff member.
20. Display all customers who have not made any payments.
21. What is the most popular film (rented the most)?
22. Show all films longer than 2 hours.
23. Find all rentals that were returned late.

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24. List customers and the number of films they rented.
25. Write a query to show top 3 rented film categories.
26. Create a view that shows all customer names and their payment totals.
27. Update a customer's email address given their ID.
28. Insert a new actor into the actor table.
29. Delete all records from the rentals table where return_date is NULL.
30. Add a new column 'age' to the customer table.
31. Create an index on the 'title' column of the film table.
32. Find the total revenue generated by each store.
33. What is the city with the highest number of rentals?
34. How many films belong to more than one category?
35. List the top 10 actors by number of films they appeared in.
36. Retrieve the email addresses of customers who rented 'Matrix Revolutions'.
37. Create a stored function to return customer payment total given their ID.
38. Begin a transaction that updates stock and inserts a rental record.
39. Show the customers who rented films in both 'Action' and 'Comedy' categories.
40. Find actors who have never acted in a film.