Practice Problem Set - 2

Business Case Scenario for Sakila DVD Rental Store

Sakila DVD Rental Store is a bustling business that offers its customers a wide array of movies for rental. To enhance its operational efficiency and cater to customer preferences effectively, the store management is keen on gaining insights from its existing database, which contains detailed information about the movies it offers.

Objective

To leverage data analysis and insights to optimize movie selection, understand customer preferences, and enhance revenue generation at Sakila DVD Rental Store.

Approach

Utilizing the Sakila database, the business aims to perform a comprehensive analysis of the available movie data to better understand various aspects related to movie ratings, duration, revenue generation, customer preferences, and more.

1. Retrieve the film titles and their corresponding category names.
2. Display the names of customers residing in the city 'London'.
3. Determine the count of films available in the 'Comedy' category.
4. Retrieve the first 10 rows from the 'actor' table.
5. Display the films sorted by their rental duration in ascending order.
6. Show unique payment amounts made by customers.
7. Calculate the total sales amount per customer.
8. Determine customers who have made more than 30 transactions.
9. Retrieve the names of films that have a rental rate greater than $4.
10. Count the number of distinct rental durations available in the film table.
11. Retrieve the first 10 records starting from the 15th row in the 'inventory' table.
12. Display the customer names sorted in descending order of their last names.

13. Show the distinct payment dates from the 'payment' table.
14. Find the maximum rental rate per film
15. Identify the customer IDs having a total amount greater than $200.
16. Retrieve all columns from the `customer` table.
17. Display different special features from the ‘film’ table.
18. Select the first 10 records from the `film` table.
19. Find the range of length of movie from the ‘film’ table.
20. Retrieve the first 5 payments from the `payments` table.
21. Display the title of the film having the second highest length.
22. Count the total number of movies from the film table.
23. Find the range of the payment in the payment table.
24. Select all columns from the `film table where the replacement cost is greater than 15 and the length is greater than 100.
25. Retrieve customer names and emails from India.
26. Show the distribution of the total amount and how frequent payment made by each customer.
27. Show only those customers who have placed more than 20 payments.
28. Find the total number of payments and amounts made done different staffs.
29. Extract the customer names and email addresses for the ‘Active‘ Customers;
30. Find the rating of movies having length greater than 120.
31. Give the frequency distribution of movies for different rating having length greater than 120.
32. Group films by rating and show the average rental rate for each rating.
33. Find the total number of rentals by each customer, only including customers with more than 25 rentals.