

Sakila Database SQL Practice Tasks

This worksheet contains 40 progressive SQL tasks based on the Sakila database and covering the following SQL concepts: SELECT, WHERE, ORDER BY, GROUP BY, and HAVING.

Task Sheet

Section A – Basic SELECT & WHERE (Tasks 1–10)

1. Task 1: Show all columns from the actor table.
2. Task 2: List the first_name and last_name of customers.
3. Task 3: Display all films released in 2006.
4. Task 4: Show the titles of films beginning with 'C'.
5. Task 5: Find films with rental_rate between 1.00 and 2.99.
6. Task 6: List the title and length of films longer than 120 minutes.
7. Task 7: Show all films with rating = 'PG' OR rating = 'G'.
8. Task 8: Display films where the rating is in 'PG', 'PG-13', 'R'.
9. Task 9: Retrieve customers whose first_name is not 'MARY'.
10. Task 10: Find films where the description contains 'Drama'.

Section B – ORDER BY & GROUP BY (Tasks 11–20)

11. Task 1: Show the title and length of films, sorted by length DESC.
12. Task 2: List all customers, ordered alphabetically by last_name.
13. Task 3: Display the rating and number of films in each rating category.
14. Task 4: Show the replacement_cost and number of films for each cost.
15. Task 5: List the rental_rate and average length of films for each rate.
16. Task 6: Show the release_year and number of films released per year.
17. Task 7: Find the minimum and maximum length of films grouped by rating.
18. Task 8: Count how many customers exist in each store_id.
19. Task 9: Show the rating and total replacement_cost of films per rating.
20. Task 10: Display the rental_rate and number of films, sorted by film count DESC.

Section C – Challenging Combinations (Tasks 21–30)

21. Task 1: Show the rating and number of films, but only ratings with more than 200 films.
22. Task 2: List the rental_rate and average film length, but only where the average length is greater than 115 minutes.
23. Task 3: Show replacement_cost and number of films, but only include groups with less than 50 films.
24. Task 4: Display the rating and maximum length of films, but only where the rating is not 'R'.
25. Task 5: Find the release_year and number of films, but only include years where more than 400 films were released.
26. Task 6: Show the rental_rate and count of films, but exclude rental_rate values between 2.00 and 3.00.

27. Task 7: Display the rating and average replacement cost, but only include ratings where the average replacement cost is greater than 18.00.
28. Task 8: List the release_year and average film length, but only for films longer than 60 minutes (apply WHERE first, then GROUP BY).
29. Task 9: Find the rental_rate and number of films with that rental rate, but only show groups where the number of films is between 70 and 90.
30. Task 10: Show the rating and total replacement cost, but only for ratings where the total replacement cost is above 5,000 and sort them in descending order.

Section D – INSERT, UPDATE, DELETE (Tasks 31–40)

31. Task 31: Insert a new actor with first_name = 'JOHN' and last_name = 'DOE' into the actor table.
32. Task 32: Insert a new customer into the customer table with store_id = 1, first_name = 'ALICE', last_name = 'SMITH', and active = 1. (Leave other fields blank/default.)
33. Task 33: Insert a new film into the film table with title = 'SQL BEGINNERS', release_year = 2006, language_id = 1, and rental_duration = 5.
34. Task 34: Update the last_name of the actor with actor_id = 1 to JOHNSON.
35. Task 35: Update the active status of all customers in store_id = 1 to 0.
36. Task 36: Update the rental_rate of all films released in 2006 to 3.99.
37. Task 37: Delete the actor with actor_id = 201.
38. Task 38: Delete all customers who are marked as active = 0.
39. Task 39: Delete all films with a rental_rate less than 1.00.
40. Task 40: Insert a new staff member into the staff table with first_name = 'DAVID', last_name = 'LEE', username = 'DLEE', and active = 1.