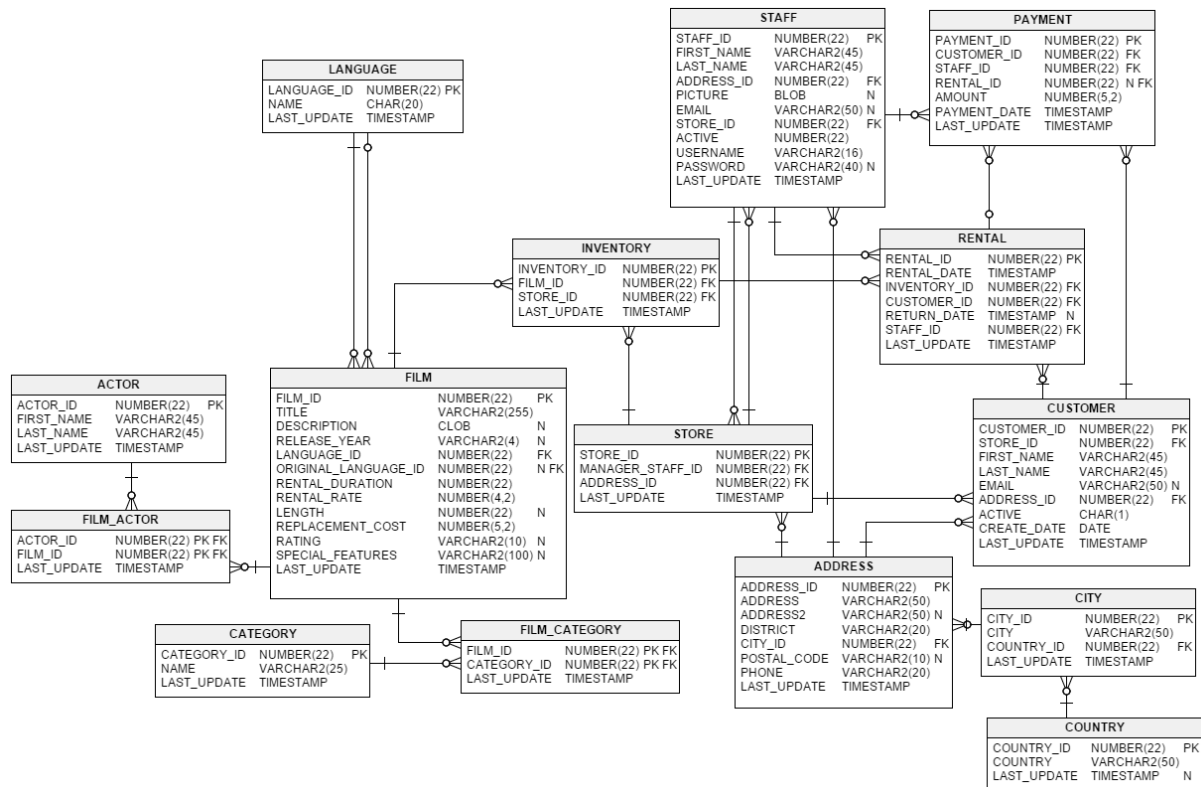


SQL Sakila Dataset



BASIC QUERIES

1. List all actors' first and last names in alphabetical order.

Expected output:

First name, Last name

Adam, Grant

Amy, Adams

Angela, Basset

2. Find all films released in the year 2006.

Expected output:

Title, Release year

Academy Dinosaur, 2006

Adaptation Holes, 2006

3. Retrieve all unique film categories.

Expected output:

Name

Action

Comedy

Drama

4. Get the total number of customers.

Expected output:

Total customers

599

5. Find all rental records where the return date is null.

Expected output:

Rental id, Customer id, Inventory id, Rental date

1523, 45, 1023, 2024-03-10 14:30:00

1678, 98, 1289, 2024-03-12 10:15:00

6. Display the names and emails of customers from the city of London.

Expected output:

First name, Last name, Email

John, Doe, john.doe@email.com

Jane, Smith, jane.smith@email.com

7. List the staff members along with the store they work at.

Expected output:

Staff id, First name, Last name, Store id

1, Mike, Johnson, 1

2, Sarah, Adams, 2

8. Retrieve a list of countries that have customers.

Expected output:

Country

USA

Canada

UK

9. Find all films with a rental duration greater than five days.

Expected output:

Film id, Title, Rental duration

12, The Grand Escape, 7

25, Mystery Island, 6

10. Get the list of movies that belong to the Action category.

Expected output:

Film id, Title

45, Action Hero Returns

78, Speed Chase

11. Retrieve the total number of films available in the inventory.

Expected output:

Total Films

1000

12. Find all customers who have never rented a movie.

Expected output:

Customer ID, First Name, Last Name

125, Alice, Johnson

178, Mark, Wilson

13. List the top 5 films rented most frequently.

Expected output:

Film ID, Title, Rental Count

12, The Grand Escape, 150

25, Mystery Island, 140

78, Speed Chase, 130

45, Action Hero Returns, 125

102, The Lost Kingdom, 120

14. Get the average rental rate of movies in each category.

Expected output:

Category, Avg Rental Rate

Action, 2.99

Comedy, 2.49

Drama, 3.19

15. Find the names of customers who have rented more than 20 movies.

Expected output:

Customer ID, First Name, Last Name, Rental Count

98, David, Brown, 25

145, Emma, White, 23

16. List all employees and their total rental transactions handled.

Expected output:

Staff ID, First Name, Last Name, Total Rentals

1, Mike, Johnson, 5000

2, Sarah, Adams, 4800

17. Retrieve the most rented movie in the Sakila database.

Expected output:

Film ID, Title, Total Rentals

12, The Grand Escape, 150

18. Find the customers who rented movies in the last 30 days.

Expected output:

Customer ID, First Name, Last Name, Last Rental Date

75, Daniel, Lewis, 2024-03-05

132, Sophia, Green, 2024-03-08

19. Find the revenue generated by each store.

Expected output:

Store ID, Total Revenue

1, 50,000

2, 48,000

20. Retrieve the longest movies in the database.

Expected output:

Film ID, Title, Length (Minutes)

15, Epic Adventure, 180

48, The Last Journey, 175

INTERMEDIATE QUERIES

1. Find the number of films available in each category.

Expected Output:

Category, Film count

Action, 55

Comedy, 47

Drama, 62

2. List the top five most rented movies along with their rental count.

Expected Output:

Title, Rental count

Jurassic Hunt, 85

Mystery Island, 78

3. Retrieve the total number of rentals for each customer sorted by most rentals.

Expected Output:

Customer id, First name, Last name, Rental count

102, John, Smith, 15

98, Alice, Johnson, 13

4. Find the highest rental rate of movies in each category.

Expected Output:

Category, Max rental rate

Action, 4.99

Comedy, 3.99

5. Get the names of customers who have rented the movie Academy Dinosaur.

Expected Output:

Customer id, First name, Last name

205, Peter, Griffin

310, Lois, Lane

6. Display a report of total payments collected by each staff member.

Expected Output:

Staff id, First name, Last name, Total collected

1, John, Doe, 5000.00

2, Sarah, Smith, 4800.00

7. Find the total revenue generated by each store.

Expected Output:

Store id, Total revenue

1, 10000.00

2, 9500.00

8. List all movies that have never been rented.

Expected Output:

Film id, Title

150, Unknown Shadows

234, Lost River

9. Identify customers who have rented more than 10 movies.

Expected Output:

Customer id, First name, Last name, Rental count

98, Alice, Johnson, 13

120, Robert, Brown, 11

10. Find the number of rentals made in each month of 2024.

Expected Output:

Month, Rental count

January, 450

February, 380

11. Find customers who have spent more than \$100 on rentals.

Expected Output:

Customer id, First name, Last name, Total spent

89, Mark, Wilson, 105.50

115, Emily, Davis, 120.00

12. Get the number of distinct customers who rented movies in the last 30 days.

Expected Output:

Unique customers

56

13. Find the average rental duration for each film category.

Expected Output:

Category, Avg rental duration

Comedy, 5.4 days

Drama, 6.2 days

14. Retrieve the most popular movie category based on rental count.

Expected Output:

Category, Rental count

Action, 120

15. Identify the most loyal customer who has made the highest number of rentals.

Expected Output:

Customer id, First name, Last name, Rentals

132, Michael, Johnson, 35

16. Find the store that has processed the most rentals.

Expected Output:

Store id, Rental count

1, 560

17. Display the average payment amount for each customer.

Expected Output:

Customer id, First name, Last name, Avg Payment

102, John, Smith, 4.75

18. Get the latest rental transaction details.

Expected Output:

Rental id, Customer id, Rental date, Return date

1205, 98, 2024-03-15, 2024-03-17

19. Find customers who have never rented a movie.

Expected Output:

Customer id, First name, Last name

134, Brian, Lee

156, Sophie, Adams

20. Identify staff members who handled the most rentals.

Expected Output:

Staff id, First name, Last name, Rental count

2, Sarah, Smith, 430

21. Get the top three highest-grossing films based on rental revenue.

Expected Output:

Film title, Revenue

Mystery Island, 650.50

Jurassic Hunt, 590.75

22. Retrieve the store that generated the least revenue.

Expected Output:

Store id, Total revenue

2, 9500.00

23. Find customers who rented the same movie more than once.

Expected Output:

Customer id, First name, Last name, Film title

98, Alice, Johnson, Jurassic Hunt

24. List films rented by more than 20 customers.

Expected Output:

Film title, Rental count

Titanic 2, 25

Galaxy Wars, 22

25. Find customers who rented movies but never made a payment.

Expected Output:

Customer id, First name, Last name

190, Jason, Carter

26. Identify films that have been rented more than 50 times but returned late over 10 times.

Expected Output:

Film title, Rental count, Late returns

Treasure Island, 75, 15

27. Retrieve the average late fee charged per customer.

Expected Output:

Customer id, First name, Last name, Avg Late Fee

85, Andrew, Walker, 2.50

28. Identify the least-rented movie category.

Expected Output:

Category, Rental count

Documentary, 10

29. Find the highest rental count per store.

Expected Output:

Store id, Rental count

1, 560

30. Get the average rental duration per store.

Expected Output:

Store id, Avg rental duration

2, 4.8 days

31. Find customers who rented exactly five movies.

Expected Output:

Customer id, First name, Last name

200, Daniel, White

32. Retrieve customers who rented movies in both stores.

Expected Output:

Customer id, First name, Last name

176, Olivia, Garcia

33. Find films that have never been rented in the last six months.

Expected Output:

Film title

Silent Echo

34. Identify employees with the highest average payment per transaction.

Expected Output:

Staff id, First name, Last name, Avg Payment

1, John, Doe, 6.75

35. Get a count of active and inactive customers.

Expected Output:

Status, Count

Active, 450

Inactive, 50

36. Find the most frequently rented movie in the last 3 months.

Expected Output:

Film title, Rental count

Dark Night, 95

37. Retrieve the most common rental duration period.

Expected Output:

Rental duration, Count

7 days, 320

38. Identify customers who have rented more than one movie on the same day.

Expected Output:

Customer id, First name, Last name, Rental date

85, Andrew, Walker, 2024-04-05

39. Find the total rental count of all horror movies.

Expected Output:

Category, Rental count

Horror, 180

ADVANCE QUERIES

40. Find the number of films available in each category.

Expected Output:

Category, Film Count

Action, 55

Comedy, 47

Drama, 62

41. List the top five most rented movies along with their rental count.

Expected Output:

Title, Rental Count

Jurassic Hunt, 85

Mystery Island, 78

42. Retrieve the total number of rentals for each customer sorted by most rentals.

Expected Output:

Customer ID, First Name, Last Name, Rental Count

102, John, Smith, 15

98, Alice, Johnson, 13

43. Find the highest rental rate of movies in each category.

Expected Output:

Category, Max Rental Rate

Action, 4.99

Comedy, 3.99

44. Get the names of customers who have rented the movie "Academy Dinosaur".

Expected Output:

Customer ID, First Name, Last Name
205, Peter, Griffin
310, Lois, Lane

45. Display a report of total payments collected by each staff member.

Expected Output:

Staff ID, First Name, Last Name, Total Collected
1, John, Doe, 5000.00
2, Sarah, Smith, 4800.00

46. Find the total revenue generated by each store.

Expected Output:

Store ID, Total Revenue
1, 10000.00
2, 9500.00

47. Retrieve the top three customers who spent the most on rentals.

Expected Output:

Customer ID, First Name, Last Name, Total Spent
34, Daniel, White, 320.00
56, Michael, Lee, 295.00

48. Find the movies that have never been rented.

Expected Output:

Film ID, Title
100, Lost in Time
125, Forgotten Heroes

49. Identify the staff member with the highest number of rentals.

Expected Output:

Staff ID, First Name, Last Name, Rentals Handled
2, Sarah, Smith, 1020

50. Find the most common rental duration for movies.

Expected Output:

Rental Duration (Days), Count
7, 95
5, 80

51. Find customers who rented more than 10 movies but spent less than \$50.

Expected Output:

Customer ID, First Name, Last Name, Rentals, Total Spent
87, Linda, Harris, 12, 48.00

52. Find the longest movie in each category.

Expected Output:

Category, Longest Movie, Length (Minutes)
Action, "Speed Thrill", 150
Drama, "Tears of Yesterday", 180

53. Find the customers who rented movies in every category.

Expected Output:

Customer ID, First Name, Last Name
210, Chris, Green

54. Find the movies rented by the most customers.

Expected Output:

Movie Title, Customer Count

"Mission Survival", 80

55. Find the movie categories that generated the most revenue.

Expected Output:

Category, Total Revenue

Action, 12000.00

Comedy, 9500.00

56. Retrieve the five movies that took the longest to return on average.

Expected Output:

Movie Title, Avg Rental Duration (Days)

"Lost in Shadows", 9.5

57. Find customers who have never returned a movie late.

Expected Output:

Customer ID, First Name, Last Name

305, Alice, Miller

58. Retrieve the top 3 cities with the highest number of rentals.

Expected Output:

City, Rental Count

New York, 1200

59. Find staff members who handled more than 500 rentals.

Expected Output:

Staff ID, First Name, Last Name, Rental Count
1, John, Doe, 600

60. Find movies that were rented more than 50 times but have a low rental rate.

Expected Output:

Movie Title, Rental Count, Rental Rate
"Comedy Stars", 55, 2.99

61. Find the store with the most unique customers.

Expected Output:

Store ID, Unique Customers
1, 350

62. Retrieve the five customers with the highest average payment per rental.

Expected Output:

Customer ID, First Name, Last Name, Avg Payment
45, Lisa, Brown, 5.20

63. Find customers who have not rented a movie in the past six months.

Expected Output:

Customer ID, First Name, Last Name
150, Robert, Brown

64. Retrieve movies with an average rating greater than 8.

Expected Output:

Movie Title, Avg Rating

"Dark City", 8.5

65. Find customers who rented only movies from a single category.

Expected Output:

Customer ID, First Name, Last Name, Category

220, Sam, Wilson, Horror

66. Identify movies that were rented by at least 10 different customers.

Expected Output:

Movie Title, Customer Count

"Fast Drive", 15

67. Find the five most frequently rented movie categories.

Expected Output:

Category, Rental Count

Drama, 800

Comedy, 750

68. Find the customers who rented movies every month in the past year.

Expected Output:

Customer ID, First Name, Last Name

90, Andrew, Carter

69. Identify the highest-grossing store in terms of rental revenue.

Expected Output:

Store ID, Total Revenue
1, 22000.00

70. Retrieve the average number of movies rented per customer.

Expected Output:

Avg Rentals per Customer
6.3

71. Find movies rented by customers who spent more than \$200.

Expected Output:

Movie Title, Customer ID
"Lost Empire", 32

72. Retrieve movies that were returned late more than 30% of the time.

Expected Output:

Movie Title, Late Return Percentage
"Dark Secrets", 45%

73. Find the five most expensive movies that have been rented at least once.

Expected Output:

Movie Title, Rental Rate
"Golden King", 5.99

74. Retrieve customers who rented movies but never made a payment.

Expected Output:

Customer ID, First Name, Last Name
187, Ryan, White

75. Find the total rental count for each film rating (PG, R, etc.).

Expected Output:

Rating, Rental Count
PG, 500
R, 700

76. Retrieve the names of all staff members and the number of rentals they processed.

Expected Output:

Staff ID, First Name, Last Name, Rentals Processed
1, John, Doe, 1020
2, Sarah, Smith, 950

77. Identify customers who have spent more than the average total rental payment.

Expected Output:

Customer ID, First Name, Last Name, Total Spent
45, Lisa, Brown, 210.50
67, Kevin, Adams, 198.75

78. Find the top 3 stores by total revenue.

Expected Output:

Store ID, Total Revenue
1, 15000.00
2, 13500.00
3, 12800.00

79. Retrieve the average movie rental duration for each category.

Expected Output:

Category, Avg Rental Duration

Action, 6.2

Comedy, 5.8

Drama, 7.1

80. Find customers who have rented more than 5 movies in the last month.

Expected Output:

Customer ID, First Name, Last Name, Rental Count

123, James, Wilson, 7

189, Emily, Carter, 6