

1. Write a query to fetch the top 5 highest-paid employees from each department.
2. Use a window function to rank employees within their departments based on salary.
3. Use a recursive CTE to display the employee hierarchy if each employee has a manager_id.
4. Write a query to find the total budget for each department.
5. Retrieve the list of employees who are earning more than the average salary of their department.
6. Find employees whose salary is above the department's average salary.
7. List all employees and the projects they are working on, along with their department.
8. Find the number of active tasks for each project.
9. Write a query to get the department with the highest number of employees.
10. Calculate the total number of hours worked by each employee.
11. Identify the department that has the lowest average salary.
12. Get the list of clients for projects that are still active.
13. List all projects with a budget greater than the average budget of all projects.
14. Find the top 3 departments by the number of active employees.

15. Write a query to calculate the total salary expenditure for each department.
16. Retrieve the list of tasks that are overdue.
17. Find the most expensive project in each department.
18. Write a query to fetch employees who were hired in the last year.
19. Find the average completion time of tasks across all projects.
20. List all employees who have not been assigned any tasks.
21. Calculate the budget remaining for each project.
22. Find projects that have a budget exceeding their estimated hours multiplied by the hourly rate.
23. Identify employees with the same last name and different departments.
24. Retrieve all projects that started in the last month.
25. Write a query to find employees who have not taken any sick leave.
26. List the departments that have more than 30% of employees active.
27. Find the project with the highest number of tasks.
28. Write a query to get the percentage of completed tasks per project.

29. List all employees along with the average salary of their department.
30. Find the clients who have been contacted the most.
31. Write a query to determine the average number of tasks per employee.
32. List all tasks assigned to employees who are no longer active.
33. Find the total number of projects for each client.
34. Identify projects that have exceeded their budget.
35. Retrieve employees who work in multiple departments.
36. Write a query to find the project manager for each project along with their contact information.
37. Calculate the average salary of employees who have been hired for more than 3 years.
38. List all departments that have a budget greater than their total salary expenditure.
39. Find all employees who are currently working on multiple projects.
40. Write a query to fetch the last hired employee in each department.
41. List the top 10 highest-paid employees across all departments.
42. Retrieve tasks that are assigned to the top 5 highest-paid employees.

43. Find projects with a duration greater than 6 months.
44. Calculate the average budget per project for each department.
45. List all employees who are older than 50 and have a salary above the department average.
46. Identify the most common job title in the employee table.
47. Retrieve the names of employees who have received a promotion in the last year.
48. Write a query to find the top 3 projects by total budget.
49. Find the total number of employees in each department who have left the company.
50. List all projects that are associated with clients that have not been contacted recently.
51. Calculate the average duration of tasks per project.
52. Identify the top 3 clients based on the total number of projects.
53. Retrieve employees who are working on projects that have a budget lower than average.
54. Write a query to find employees who are assigned to tasks that exceed 100 hours.
55. List all tasks along with the name of the employee assigned to them.
56. Find departments where the total salary is less than the total budget.

57. Retrieve all employees who work in the 'Engineering' department and have more than 5 years of experience.
58. Identify projects that have had no tasks completed.
59. Write a query to calculate the percentage of employees who are active.
60. List all departments that have employees older than 60.
61. Find the employee who has worked on the most projects.
62. Retrieve the number of tasks that are marked as 'Critical'.
63. Identify the least expensive project in each department.
64. Write a query to get the total number of employees hired in the last month.
65. List all projects that have an assigned project manager.
66. Find the employee with the longest tenure in the company.
67. Retrieve the average salary for employees in projects that are completed.
68. Identify departments with employees who have salaries above the industry average.
69. Write a query to find the tasks that have not been updated in the last 6 months.

70. List all clients along with the total budget for projects they are associated with.
71. Find employees who have been with the company for less than a year and are still active.
72. Retrieve the number of active tasks for each department.
73. Write a query to find the project with the highest budget variance.
74. Identify departments with more than 50% of employees who are remote.
75. List all employees who have worked on projects for more than 3 years.
76. Find the top 5 departments by average employee tenure.
77. Retrieve the list of employees who are currently on leave.
78. Write a query to find employees who are assigned to projects in multiple departments.
79. Identify the clients who have the highest average project budget.
80. Find the total number of completed tasks in each department.
81. List all employees along with the total budget of the projects they are working on.
82. Retrieve the most recent hire in each department along with their hire date.
83. Write a query to calculate the average salary of employees per project.

84. Identify employees who have not been assigned to any projects in the last year.
85. List departments that have had budget increases in the last year.
86. Find the average salary of employees who have worked on at least 3 projects.
87. Write a query to retrieve tasks that are pending for more than 30 days.
88. List clients who have the least number of projects associated with them.
89. Identify employees who have received training in the last year.
90. Retrieve the names of all projects that are scheduled to start next month.
91. Find the number of tasks that have been assigned to employees in the 'HR' department.
92. Write a query to get the total budget spent on completed projects.
93. Identify employees who are also project managers.
94. List departments with the highest turnover rate.
95. Find the project with the most resources allocated.
96. Retrieve the list of employees who have switched departments in the last year.
97. Write a query to find the total number of active projects.

98. Identify employees who are not associated with any active tasks.

99. List all tasks along with their status and assigned employee names.

100. Write a query to find the percentage increase in the budget for each project compared to the previous year.