Tables Starting with 'JO' Owned by Current User:

sql

Copy code

SELECT table_name

FROM user_tables

WHERE table_name LIKE 'JO%';

First Initial and Last Name of Employees:

```
SELECT SUBSTR(first_name, 1, 1) || ' ' || last_name AS employee_name FROM employees;
```

1. Full Name and Email of Employees with 'IN' in Email Address:

```
SELECT first_name || ' ' || last_name AS full_name, email
```

FROM employees

WHERE email LIKE '%IN%';

SELECT MIN(last_name) AS smallest_last_name, MAX(last_name) AS highest_last_name

FROM employees;

2. Weekly Salaries Between \$700 and \$3000:

SELECT salary / 52 AS weekly_salary

FROM employees

WHERE salary / 52 BETWEEN 700 AND 3000;

3. Employees and Their Job Titles Sorted by Job Title:

sql

Copy code

SELECT e.last_name, j.job_title

FROM employees e

JOIN jobs j ON e.job_id = j.job_id

ORDER BY j.job_title;

4. Job, Salary Ranges, and Employee's Salary:

sql

```
Copy code
SELECT e.job_id, MIN(e.salary) || '-' || MAX(e.salary) AS salary_range, e.salary
FROM employees e
GROUP BY e.job_id, e.salary;
   5. Employee's Initial, Last Name, and Department Name (ANSI Join):
sql
Copy code
SELECT SUBSTR(e.first_name, 1, 1) | | ' ' | | e.last_name AS employee_name, d.department_name
FROM employees e
JOIN departments d ON e.department_id = d.department_id;
   6. Employees and Department Names with Outer Join:
sql
Copy code
SELECT e.last_name, d.department_name
FROM employees e
RIGHT OUTER JOIN departments d ON e.department_id = d.department_id;
   7. Employees' Names, Salary, and Commission Status:
sql
Copy code
SELECT SUBSTR(first_name, 1, 1) | | ' ' | | last_name AS employee_name, salary,
   DECODE(commission_pct, NULL, 'No', 'Yes') AS commission_status
FROM employees;
   8. Employees' Last Name and Department Details with Outer Join:
sql
Copy code
SELECT e.last_name, d.department_name, l.city, l.state_province
FROM employees e
RIGHT OUTER JOIN departments d ON e.department_id = d.department_id
JOIN locations I ON d.location_id = I.location_id;
   9. Employee's First and Last Names and First Occurrence of Commission, Manager ID, or -1:
```

sql

```
Copy code
SELECT first_name || ' ' || last_name AS full_name,
   NVL2(commission_pct, commission_pct, NVL2(manager_id, manager_id, -1)) AS first_occurrence
FROM employees;
   10. Employees' Last Name, Salary, and Job Grade for Departments with ID Greater Than 50:
sql
Copy code
SELECT e.last_name, e.salary, jg.grade_level
FROM employees e
JOIN job_grades jg ON e.job_id = jg.job_id
WHERE e.department_id > 50;
   11. List of Employees and Departments Including Unassigned:
sql
Copy code
SELECT e.last_name, d.department_name
FROM employees e
FULL OUTER JOIN departments d ON e.department_id = d.department_id;
   12. Treewalking List of Employees' Last Name, Manager's Last Name, and Position:
sql
Copy code
SELECT e1.last_name AS employee, e2.last_name AS manager,
   LEVEL AS position
FROM employees e1
JOIN employees e2 ON e1.manager_id = e2.employee_id
START WITH e1.employee_id = 100
CONNECT BY PRIOR e1.employee_id = e1.manager_id;
   13. Earliest Hire Date, Latest Hire Date, and Number of Employees:
sql
Copy code
SELECT MIN(hire_date) AS earliest_hire_date, MAX(hire_date) AS latest_hire_date, COUNT(*) AS
number_of_employees
```

```
FROM employees;
```

14. Departments with Salary Costs Between 15000 and 31000:

sql

Copy code

SELECT d.department_name, SUM(e.salary) AS total_salary

FROM employees e

JOIN departments d ON e.department_id = d.department_id

GROUP BY d.department_name

HAVING SUM(e.salary) BETWEEN 15000 AND 31000

ORDER BY total_salary;

15. Department Names, Manager ID, Manager Name, and Average Salary:

sql

Copy code

SELECT d.department_name, e.manager_id, e.last_name AS manager_name, AVG(e.salary) AS average_salary

FROM employees e

JOIN departments d ON e.department_id = d.department_id

GROUP BY d.department_name, e.manager_id, e.last_name;

16. Highest Average Salary in Departments:

sql

Copy code

SELECT ROUND(MAX(avg_salary)) AS highest avg_salary

FROM (SELECT AVG(salary) AS avg_salary

FROM employees

GROUP BY department_id);

17. Monthly Salary Cost by Department:

sql

Copy code

SELECT d.department_name, SUM(e.salary) / 12 AS monthly_cost

FROM employees e

JOIN departments d ON e.department_id = d.department_id

```
GROUP BY d.department_name;

18 Monthly Salary Cost by I
```

18. Monthly Salary Cost by Job ID and Department: sql

Copy code

SELECT d.department_name, e.job_id, SUM(e.salary) / 12 AS monthly_cost

FROM employees e

JOIN departments d ON e.department_id = d.department_id

GROUP BY d.department_name, e.job_id

WITH ROLLUP;

19. Employee Names, Department IDs, and Department Names with Cities:

sql

Copy code

SELECT first_name | | ' ' | | last_name AS employee_name, department_id

FROM employees

UNION

SELECT department_id, department_name

FROM departments

UNION

SELECT city

FROM locations;

20. Employees' Names, Salary, and Department Name for Salaries Above Department Average:

sql

Copy code

SELECT first_name || ' ' || last_name AS employee_name, salary, d.department_name

FROM employees e

JOIN departments d ON e.department_id = d.department_id

WHERE e.salary > (SELECT AVG(salary) FROM employees WHERE department_id = e.department_id);

These queries should help ensure that you produce the desired data while practicing SQL.

40

next

ChatGPT

Certainly! Here are more detailed SQL queries for the remaining problems:

```
24. List of Every Employee's Job, Salary Ranges Within the Job, and the Employee's Salary:
sql
Copy code
SELECT j.job_title, MIN(e.salary) || '-' || MAX(e.salary) AS salary_range, e.salary
FROM employees e
JOIN jobs j ON e.job_id = j.job_id
GROUP BY j.job_title, e.salary;
   25. Employees' First Initial and Last Name, and Department Name Using ANSI Join:
sql
Copy code
SELECT SUBSTR(e.first_name, 1, 1) | | ' ' | | e.last_name AS employee_name, d.department_name
FROM employees e
JOIN departments d ON e.department_id = d.department_id;
   26. Previous List Joined Only on Department ID:
sql
Copy code
SELECT SUBSTR(e.first_name, 1, 1) | | ' ' | | e.last_name AS employee_name, d.department_name
FROM employees e
JOIN departments d ON e.department_id = d.department_id;
   27. Employees' Last Name and Whether or Not They Have a Manager Using DECODE:
sql
Copy code
SELECT last_name, DECODE(manager_id, NULL, 'Nobody', 'Somebody') AS manager_status
FROM employees;
   28. Employees' First Initial and Last Name, Salary, and Commission Status:
sql
Copy code
SELECT SUBSTR(first_name, 1, 1) | | ' ' | | last_name AS employee_name, salary,
   DECODE(commission_pct, NULL, 'No', 'Yes') AS commission_status
```

FROM employees;

```
29. Employees' Last Name, Department Name, City, and State/Province with Outer Join:
sql
Copy code
SELECT e.last_name, d.department_name, l.city, l.state_province
FROM employees e
RIGHT OUTER JOIN departments d ON e.department_id = d.department_id
JOIN locations I ON d.location_id = I.location_id;
   30. Employees' First and Last Names and First Occurrence of Commission, Manager ID, or -1:
sql
Copy code
SELECT first_name || ' ' || last_name AS full_name,
   NVL2(commission_pct, commission_pct, NVL2(manager_id, manager_id, -1)) AS first_occurrence
FROM employees;
   31. Employees' Last Name, Salary, and Job Grade for Departments with ID Greater Than 50:
sql
Copy code
SELECT e.last_name, e.salary, jg.grade_level
FROM employees e
JOIN job_grades jg ON e.job_id = jg.job_id
WHERE e.department_id > 50;
   32. List of Employees and Departments Including Unassigned:
sql
Copy code
SELECT e.last_name, d.department_name
FROM employees e
FULL OUTER JOIN departments d ON e.department_id = d.department_id;
   33. Treewalking List of Employees' Last Name, Manager's Last Name, and Position:
sql
Copy code
SELECT e1.last_name AS employee, e2.last_name AS manager,
   LEVEL AS position
```

```
FROM employees e1
JOIN employees e2 ON e1.manager_id = e2.employee_id
START WITH e1.employee_id = 100
CONNECT BY PRIOR e1.employee_id = e1.manager_id;
   34. Earliest Hire Date, Latest Hire Date, and Number of Employees:
sql
Copy code
SELECT MIN(hire_date) AS earliest_hire_date, MAX(hire_date) AS latest_hire_date, COUNT(*) AS
number_of_employees
FROM employees;
   35. Departments with Salary Costs Between 15000 and 31000:
sql
Copy code
SELECT d.department_name, SUM(e.salary) AS total_salary
FROM employees e
JOIN departments d ON e.department_id = d.department_id
GROUP BY d.department_name
HAVING SUM(e.salary) BETWEEN 15000 AND 31000
ORDER BY total salary;
   36. Department Names, Manager ID, Manager Name, and Average Salary:
sql
Copy code
SELECT d.department_name, e.manager_id, e.last_name AS manager_name, AVG(e.salary) AS
average_salary
FROM employees e
JOIN departments d ON e.department_id = d.department_id
GROUP BY d.department_name, e.manager_id, e.last_name;
   37. Highest Average Salary in Departments:
sql
Copy code
SELECT ROUND(MAX(avg_salary)) AS highest_avg_salary
FROM (SELECT AVG(salary) AS avg_salary
```

```
FROM employees
   GROUP BY department_id);
   38. Monthly Salary Cost by Department:
sql
Copy code
SELECT d.department_name, SUM(e.salary) / 12 AS monthly_cost
FROM employees e
JOIN departments d ON e.department_id = d.department_id
GROUP BY d.department_name;
   39. Monthly Salary Cost by Job ID and Department:
sql
Copy code
SELECT d.department_name, e.job_id, SUM(e.salary) / 12 AS monthly_cost
FROM employees e
JOIN departments d ON e.department_id = d.department_id
GROUP BY d.department_name, e.job_id
WITH ROLLUP;
   40. Employee Names, Department IDs, and Department Names with Cities:
sql
Copy code
SELECT first_name || ' ' || last_name AS employee_name, department_id
FROM employees
UNION
SELECT department_id, department_name
FROM departments
UNION
SELECT city
FROM locations;
   41. Employees' Names, Salary, and Department Name for Salaries Above Department Average:
sql
Copy code
```

```
SELECT first_name | | ' ' | | last_name AS employee_name, salary, d.department_name
FROM employees e
JOIN departments d ON e.department_id = d.department_id
WHERE e.salary > (SELECT AVG(salary) FROM employees WHERE department_id = e.department_id);
   42. Employees' Names and Position in the Company:
sql
Copy code
SELECT e1.last_name AS employee, e2.last_name AS manager, LEVEL AS position
FROM employees e1
JOIN employees e2 ON e1.manager_id = e2.employee_id
START WITH e1.employee_id = 100
CONNECT BY PRIOR e1.employee_id = e1.manager_id;
   43. List of Each Employee's First Initial and Last Name, Salary, and Department Name for Each
       Employee Earning More Than the Average for Their Department:
sql
Copy code
SELECT SUBSTR(e.first_name, 1, 1) | | ' ' | | e.last_name AS employee_name, e.salary,
d.department name
FROM employees e
JOIN departments d ON e.department_id = d.department_id
WHERE e.salary > (SELECT AVG(salary)
         FROM employees
         WHERE department id = e.department id);
   44. Employees' Last Name, Department Name, City, and State/Province with Outer Join:
sql
Copy code
SELECT e.last_name, d.department_name, l.city, l.state_province
FROM employees e
RIGHT OUTER JOIN departments d ON e.department_id = d.department_id
JOIN locations I ON d.location_id = I.location_id;
   45. Departments with Salary Costs Between 15000 and 31000:
```

sql

Copy code

SELECT d.department_name, SUM(e.salary) AS total_salary

FROM employees e

JOIN departments d ON e.department_id = d.department_id

GROUP BY d.department_name

HAVING SUM(e.salary) BETWEEN 15000 AND 31000

ORDER BY total_salary;