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Queries:

1. Display the first name and salary for all employees who earn more than employee number 103.
2. Display all the information of employees who are working in Sales or IT department.
3. Write a query to display the first name and last name, salary, department id for those employees whose salary in average salary of any of departments.
4. Write a query to display the first name, last name and hiredate for all employees, who are working in the same department as an employee whose last name is Fox. Exclude Fox.
5. Display the employee first name, last name and employee id, for all employees whose department location is London.
6. Display the employee ID and Full name of all employees who works in same department where the employees having first name containing a letter 'Z'.
7. Find out the names of all employees whose salary is greater than 50% of their department's total salary bill.
8. Write a query to get the details of employees who are managers.
9. Display the employee id, name, salary, department name and city for all the employees who gets the salary as the salary earn by the employee which is maximum within the joining person January 1st, 1990 and December 31st, 1991.
10. Find all departments that do not have any employees.
11. Write a query in SQL to show the details of employees of job type ST_CLERK, SA-REP, AD_ASST whose working location is Seattle.
12. Find out the employees whose salaries are greater than the salaries of their managers.
13. List the highest paid employees working under DEN.
14. Display the detail information of departments which starting salary is at least 8000.
15. Display the full name of manager who is supervising 4 or more employees.

Answers:

Query:1

```
mysql> select first_name, last_name, salary from employees where salary > (select salary from employees where employee_id =103);
```

Query 2:

```
mysql> select * from employees where department_id in(select department_id from departments
where department_name = "sales" or department_name = "IT");
```

query 3:

```
mysql> select first_name , last_name, salary from employees where salary =any (select avg(salary) from
employees group by department_id);
```

Query 4:

```
mysql> select first_name,last_name,hire_date from employees where last_name != "fox" and
department_id in(select department_id from employees where last_name ="Fox");
```

Query 5:

```
mysql> select first_name , last_name, employee_id from employees where department_id in (select
department_id from departments where location_id in(select location_id from locations where
city="London"));
```

Query 6:

```
mysql> select employee_id , first_name , last_name from employees where department_id in(select
department_id from employees where first_name like "%Z%");
```

Query 7:

```
mysql> select first_name, last_name from employees where (salary*50/100) > (select avg(salary) from
employees);
```

Query 8:

```
mysql> select * from employees e where employee_id in(select manager_id from employees);
```

Query 9:

```
mysql> select first_name, last_name,employee_id,salary,department_name,city from employees join
departments using (department_id) join locations using(location_id) where salary in (SELECT
MAX(salary) FROM employees WHERE hire_date BETWEEN '1990-01-01' AND '1991-12-31');
```

Query 10:

```
mysql> SELECT department_name FROM departments d WHERE NOT EXISTS (SELECT 1 FROM
employees e WHERE e.department_id = d.department_id);
```

Query 11:

```
mysql> select * from employees e where e.job_id in ("st_clerk", 'sa_rep' , 'ad_asst') and
e.department_id in (select d.department_id from departments d join locations l using(location_id)
where l.city="seattle");
```

Query 12:

```
mysql> SELECT first_name FROM employees e1 WHERE salary > ALL (SELECT e2.salary FROM employees e2 WHERE e2.employee_id = e1.manager_id);
```

Query 13:

```
mysql> select first_name , salary from employees where salary =( select max(salary) from employees e1 where salary in(select e1.salary from employees e1 join employees e2 on e1.manager_id=e2.employee_id where e2.first_name ="den" ));
```

Query 14:

```
mysql> select * from departments where department_id in(select department_id from departments join employees using(department_id) where salary=8000);
```

Query 15:

```
mysql> SELECT manager_id, min(first_name) FROM employees GROUP BY manager_id HAVING COUNT(employee_id) >= 4;
```