

Q. LinkedIn interview questions

Table:

Employee — employee_id, name, job_title, level_sk, dept_sk, manager_id, location_sk, salary, start_date, tenu_date

Level — level_sk, level_name

Department — dept_sk, dept_name

Location — location_sk, city, state, country

1. Select the employee in each department with the highest salary in the us include employee name, department name, and salary in output
2. Same as above, top 5
3. Create a table in database with information from all tables for department of BizOPS
4. Pull a list of managers and their direct reports in the output
5. Find the number of employees that started at the company each quarter
6. Find the average tenure(how many days the person worked here) of all employee by level. If an employee is still at the company tenu_date is null, use today's date to calculate tenure

1.
Select name, dept_name, max(salary) from employee e
Left join department d on e.dept_sk = d.dept_sk
Left join location l on l.location_sk = e.location_sk
Where country = 'US'
Group by dept_sk;

2.
select n.name, d.dept_name, n.salary
from (Select *, dense_rank(employee_id) over(partition by dept_sk order by salary desc) as salary_rank From employee e
Left join location l on l.location_sk = e.location_sk
Where country = 'US') n
Left Join department d on d.dept_sk = n.dept_sk
Where n.salary_rank < 6;

3.
Select * from employee e
Left join department d on d.dept_sk = e.dept_sk
Left join level l on l.level_sk = e.level_sk
Left join location lo on lo.location_sk = e.location_sk
Where d.dept_name = 'BizOPS'

CREATE TABLE t AS

Select *
from (
Select employee_id, name, job_title, e.level_sk, level_name, e.dept_sk, dept_name,
manager_id, e.location_sk, city, state, country, salary, start_date, tenu_date
from employee e
Left join department d on d.dept_sk = e.dept_sk
Left join level l on l.level_sk = e.level_sk
Left join location lo on lo.location_sk = e.location_sk
Where d.dept_name = 'BizOPS') n

4.
Select employee_id, name, manager_id as reportTo from employee

Where employee_id in (select manager_id from employee);

Select
From employee as m
Left join employee as e
On m.employee_id = e.manager_id

5.
Select QUARTER(start_date) as start_quarter, count(employee_id) from employee
Group by QUARTER(start_date);

Select
Sum case when 1<=month(start_date)<4 then...

6.
Select l.level_name, avg(e.tenure) as AvgTenure from
(Select *,
(Case
When tenu_date is NULL then CURDATE()-start_date
Else tenu_date-start_date
End) as tenure
From employee) e
Left join level l on e.level_sk = l.level_sk
Group by e.level_sk;

HIVE:

SELECT level_sk, AVG(DATEDIFF(coalesce(term_date,curent_date()), start_date) as avg_tenure
FROM employee
GROUP BY level_sk;

coalesce— — check NULL, is NULL then use the second one