Assignment

Feb19/ DBT/ 011

Database Technologies

Diploma in Advance Computing

February 2019

**Sub-queries**

USE *n2employee, n2department, n2employee\_department, n2salary, n2commission, n2contact, n2address, n2qualification, n2hobbies, and n2jobhistory*relation to solve the following queries.

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| 1. Display all employee and hobby details of those employees who have more than or equal to 4 hobbies. |
| select \* from n2employee e, n2hobbies h where e.id = h.employeeid and e.id in (select employeeid from n2hobbies group by employeeid having count(\*) >=4); |
|  |
| 1. Display the employee’s detail who have least hobbies. |
| select \* from n2employee where id = (select employeeid from n2hobbies group by employeeid having count(\*) = (select min(r1) from (select count(\*) r1 from n2hobbies group by employeeid) e)); |
|  |
| 1. Display all employee’s detail who have least hobbies for *gender* ‘M’. |
| select \* from n2employee where id in (select employeeid from n2hobbies group by employeeid having count(\*) in (select min(r1) from (select employeeid, count(\*) r1 from n2employee e, n2hobbies h where e.id = h.employeeid and gender = 'M' group by employeeid) e1)) and gender='M'; |
|  |
| 1. Display *(firstname, lastname)* who are having more than 4 hobbies. |
| select firstname, lastname from n2employee e where exists (select h.employeeid from n2hobbies h where e.id = h.employeeid group by h.employeeid having count(\*)>4); |
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| 1. Get all department details where no employees are working. |
| select \* from n2department d where not exists (select distinct departmentid from n2employee\_department where (employeeid, todate) in (select employeeid, max(todate) from n2employee\_department group by employeeid) and d.id = n2employee\_department.departmentid); |
|  |
| 1. Get all department details where employees are working. |
| select \* from n2department d where exists (select distinct departmentid from n2employee\_department where (employeeid, todate) in (select employeeid, max(todate) from n2employee\_department group by employeeid) and d.id = n2employee\_department.departmentid); |
|  |
| 1. Get the *(employeeid,* and *salary)* for those employees who earn less than the employee earn whose *employeeID* is 10. |
| select employeeid ,salary from n2salary where (employeeid, todate) in (select employeeid, max(todate) from n2salary group by employeeid) and salary < (select salary from n2salary where (todate, employeeid) = (select max(todate), employeeid from n2salary where employeeid=10)); |
|  |
| 1. Get the *(firstname, lastname, gender, departmentid, department name,* *and* *location)* for those employees who works in the same department as the employee who holds the *firstname* as `EMMA`. |
| select firstname, lastname, gender, d.name, d.location, d.id, e1.id, departmentid from n2employee e1, n2employee\_department , n2department d where e1.id=n2employee\_department.employeeid and n2employee\_department.departmentid = d.id and (employeeid, todate) in (select employeeid, max(todate) from n2employee\_department group by employeeid) and departmentid in (select departmentid from n2employee\_department where (employeeid, todate) = (select employeeid, max(todate) from n2employee e,n2employee\_department e1 where e.id=e1.employeeid and e.firstname='emma' group by e1.employeeid));  select \* from n2employee e, n2employee\_department e1 where e.id=e1.employeeid and (employeeid, todate) in (select employeeid, max(todate) from n2employee\_department group by employeeid) and e1.departmentid = (select departmentid from n2employee e, n2employee\_department e1 where e.id=e1.employeeid and firstname='emma' and (e1.employeeid, e1.todate) in (select employeeid, max(todate) from n2employee\_department group by employeeid)); |
|  |
| 1. Display all salary details who are having same *salaries* for the current jobs. |
| select \* from (select \* from n2salary where (employeeid ,todate) in (select employeeid, max(todate) from n2salary group by employeeid)) e1, (select salary from n2salary where (employeeid, todate) in (select employeeid, max(todate) from n2salary group by employeeid) group by salary having count(\*)>1) e2 where e1.salary = e2.salary order by 5; |
|  |
| 1. Display *(salary, and count of salaries)* of all employees who same salary for the current job. |
| select salary, count(\*) from n2salary where (employeeid, todate) in (select employeeid, max(todate) from n2salary group by employeeid) group by salary having count(\*) > 1; |
|  |
| 1. Get all employees who earns more than the average salary for the current job. |
| select \* from n2employee e, n2salary s where e.id = s.employeeid and (employeeid, todate) in (select employeeid, max(todate) from n2salary group by employeeid) and salary > (select avg(salary) from n2employee e, n2salary s where e.id = s.employeeid and (employeeid, todate) in (select employeeid, max(todate) from n2salary group by employeeid)); |
|  |
| 1. Get all employees whose employer is either 'sharmin' or 'saleel' |
| select \* from n2employee e, n2jobhistory j where e.id=j.employeeid and employeer in ('sharmin', 'saleel') and (employeeid, todate) in (select employeeid, max(todate) from n2jobhistory group by employeeid); |
|  |
| 1. Get salary details of the current employees, whose salary is below 2500. |
| select \* from n2salary where (employeeid, todate) in (select employeeid, max(todate) from n2salary group by employeeid) and salary < 2500 order by employeeid; |
|  |
| 1. Display *(department name, location)* of the current employee whose current salary below 2500. |
| select \* from n2department d, n2employee\_department ed, n2salary s where (s.employeeid, s.todate) in (select employeeid, max(todate) from n2salary group by employeeid) and (ed.employeeid, ed.todate) in (select employeeid, max(todate) from n2salary group by employeeid) and (s.employeeid, s.todate) = (ed.employeeid, ed.todate) and d.id = ed.departmentid and d.name='accounting' order by ed.employeeid; |
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| 1. Display all employees who are getting commission. |
| select e.\* from n2employee e where exists (select \* from n2commission c where e.id = c.employeeid); |
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| 1. Display all employees who are not getting commission. |
| select e.\* from n2employee e where not exists (select \* from n2commission c where e.id = c.employeeid); |
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| 1. Display all employees’ commission details for the currentjob who are not getting commission. |
| select \* from n2commission where (employeeid, todate) in (select employeeid, max(todate) from n2commission group by employeeid) and commission is null; |
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| 1. Display all employees’ commission details for the currentjob who are getting commission. |
| select \* from n2commission where (employeeid, todate) in (select employeeid, max(todate) from n2commission group by employeeid) and commission is not null; |
|  |
| 1. Display all employee details who have three or more emailid. |
| select \* from n2employee where id in (select employeeid from n2contact group by employeeid having count(emailid)>=3); |
|  |
| 1. Get lowest salary of employee working in current job? |
| select min(salary) from n2salary where (employeeid, todate) in (select employeeid, max(todate) from n2salary group by employeeid); |
|  |
| 1. Get lowest salary of employee working in current job? |
| select min(salary) from n2salary where (employeeid, todate) in (select employeeid, max(todate) from n2salary group by employeeid); |
|  |
| 1. Get *(employee id, firstname, lastname, gender, and hiredate)* lowest salary of employee working in current job? |
| select e.\* from n2employee e, n2salary s where e.id = s.employeeid and (employeeid, todate) in (select employeeid, max(todate) from n2salary group by employeeid having salary = (select min(salary) from n2salary where (employeeid, todate) in (select employeeid, max(todate) from n2salary group by employeeid))); |
|  |
| 1. Get average salary of employee working in current job? |
| select avg(salary) from n2salary where (employeeid, todate) in (select employeeid, max(todate) from n2salary group by employeeid); |
|  |
| 1. Get sum salary of employee working in current job? |
| select sum(salary) from n2salary where (employeeid, todate) in (select employeeid, max(todate) from n2salary group by employeeid); |
|  |
| 1. Get highest *commission* of employee for the current job. |
| select max(commission) from n2commission where (employeeid, todate) in (select employeeid, max(todate) from n2commission group by employeeid); |
|  |
| 1. Get second highest *salary* of employee for the current job. |
| select max(commission) from n2commission where (employeeid, todate) in (select employeeid, max(todate) from n2commission group by employeeid) and commission < (select max(commission) from n2commission where (employeeid, todate) in (select employeeid, max(todate) from n2commission group by employeeid)); |
|  |
| 1. Print *salary* of all employees in the given format 3000\*\*\*\*\* for the current job. |
| select rpad(salary, 9, "\*") from n2salary where (employeeid, todate) in (select employeeid, max(todate) from n2salary group by employeeid); |
|  |
| 1. Get the *(department name, and count)*, than how many employees are working in which department for the current job. |
| select d.name, count(\*) from n2employee e, n2department d, n2employee\_department e1 where e.id=e1.employeeid and e1.departmentid = d.id and (e1.employeeid, todate) in (select employeeid, max(todate) from n2employee\_department group by employeeid) group by d.name; |
|  |
| 1. Display the name of stream where maximum number of employees has taken admission in ‘BE’. |
| select stream from n2qualification where name='BE' group by stream having count(\*) = (select max(R1) from (select count(\*) R1 from n2qualification where name = 'BE' group by stream) s ); |
|  |
| 1. Count how many employee are not getting commission for the current job. |
| select count(\*) from n2commission where (employeeid, todate)in (select employeeid, max(todate) from n2commission group by employeeid) and commission is null; |
|  |
| 1. Count how many employee are getting commission for the current job. |
| select count(\*) from n2commission where (employeeid, todate)in (select employeeid, max(todate) from n2commission group by employeeid) and commission is not null; |
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