Assignment

Feb19/ DBT/ 008

Database Technologies

Diploma in Advance Computing

February 2019

**Joins**

USE *n2employee, n2department, n2employee\_department, n2salary, n2commission, n2contact, n2address, n2qualification, n2hobbies, n2order, and n2jobhistory*relation to solve the following queries.

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| 1. Display *(firstname, lastname, gender, line1, line2, city,* and *pin)* from *n2employee* and *n2address* relation. |
| select firstname, lastname, gender, line1, line2, city, pin from n2employee e, n2address a where e.id = a.employeeid; |
|  |
| 1. Display *(firstname, lastname, gender, name, and institute)* name from *n2employee* and *n2qualification* relations. |
| select firstname, lastname, gender, name, institute from n2employee e, n2qualification q where e.id = q.employeeid; |
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| 1. Display *(firstname, lastname, institute, and university)* who have studied in 'Yale University' |
| select firstname, lastname, institute, university from n2employee e, n2qualification q where e.id = q.employeeid and university='Yale University'; |
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| 1. Display all employee's with their hobby detail whose hobby *NAME* is 'Swimming'. |
| select \* from n2employee e, n2hobbies h where e.id = h.employeeid; |
|  |
| 1. Display *(employeeid, name, stream institute, university, and grade)* whose stream is ‘Commerce’. |
| select employeeid, name, stream institute, university, grade from n2qualification a where exists (select \* from n2qualification b where a.employeeid= b.employeeid and stream='commerce'); |
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| 1. Display *(n2employee.id, firstname, lastname, employeeid, name, stream institute, university, and grade)* whose stream is ‘Commerce’. |
| select n2employee.id, firstname, lastname, employeeid, name, stream institute, university, grade from n2qualification a, n2employee where exists (select \* from n2qualification b where a.employeeid= b.employeeid and stream='commerce') and n2employee.id = a.employeeid; |
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| 1. Display *(firstname, lastname, gender, qualification name, stream, and grade)* of all a employees who have got ‘A’ grade throughout. |
| select e.firstname, e.lastname, e.gender, a.employeeid, a.name, a.stream, a.grade from n2employee e, n2qualification a where exists (select b.employeeid from n2qualification b where a.employeeid = b.employeeid and b.grade ='A' group by b.employeeid having count(\*)>=3) and e.id = a.employeeid |
|  |
| 1. Display the hobby detail of all employees who have hobby same as ‘SMITH’ (lastName). |
| select \* from n2hobbies h2 where exists (select name from n2hobbies h, n2employee e where e.id=h.employeeid and lastname='smith' and h2.name=h.name); |
|  |
| 1. Display *(firstname, lastname, gender, line1, line2, and city)* of all employees who are staying in “Las Vega” *city*. |
| select firstname, lastname, gender,line1, line2,city from n2employee e, n2address a where e.id = a.employeeid and city = "Las Vega"; |
|  |
| 1. Display *(department name)* who are currently working in departments 10 or 20. |
| select employeeid, departmentid, todate, d.name from n2employee\_department e1, n2department d where e1.departmentid = d.id and todate in (select max(todate) from n2employee\_department group by employeeid) and departmentid in(10, 20); |
|  |
| 1. Display *(employee id, firstname, lastname, gender, and department name)* of all employees who are working in current department. |
| select e.id, firstname ,lastname, gender, d.name from n2employee e,n2department d, n2employee\_department e1, n2employee\_department e2 where e.id = e1.employeeid and e1.departmentid = d.id and e1.employeeid = e2.employeeid and e1.todate = e2.todate and e2.todate in ( select max(todate) from n2employee\_department group by employeeid) order by e.id; |
|  |
| 1. Display *(firstname, lastname, gender, department name, and location)* of all employees whose *firstname* starts with a letter ‘K’ |
| select firstname, lastname, gender, name, location from n2employee e, n2department d, n2employee\_department d1 where (d1.employeeid, d1.todate) in (select employeeid, max(todate) from n2employee\_department group by employeeid) and d.id = d1.departmentid and e.id= d1.employeeid and firstname like 'K%'; |
|  |
| 1. Display *(employee id, firstname, lastname, department name, location, fromdate, and todate)* of employeeid 10. |
| select e.id, e.firstname, e.lastname, d.name, d.location, e1.fromdate, e1.todate from n2employee e, n2department d, n2employee\_department e1 where e.id=e1.employeeid and e1.departmentid = d.id and e.id=10; |
|  |
| 1. Display *(firstname, lastname, phonenumber, and emailid)* of employeeid 14. |
| select firstname, lastname, phonenumber, emailid from n2employee e, n2contact c where e.id = c.employeeid and e.id=14; |
|  |
| 1. Display *(firstname and count the total number of phone an employee is having)* for all employees. |
| select firstname, count(\*) "R1" from n2employee e, n2contact c where e.id = c.employeeid group by firstname, c.employeeid; |
|  |
| 1. Display *(employee id, firstname, lastname, department name, and location)* of all employees who are currently working in ‘FINANCE’ department in ascending order of *employee id*. |
| select e1.employeeid,e.firstname, e.lastname, d.name, d.location from n2employee e, n2department d, n2employee\_department e1 where e.id = e1.employeeid and d.id = e1.departmentid and (employeeid, todate) in(select employeeid, max(todate) from n2employee\_department e1 group by employeeid) and d.name=upper('Finance') order by e1.employeeid; |
|  |
| 1. Get employee’s *(firstname, lastname,* *gender, phonenumber, and emailid)* whose employeeid is 14. |
| select firstname, lastname, gender, phonenumber, emailid from n2employee e, n2contact c where e.id=c.employeeid and e.id=14; |
|  |
| 1. Get *(firstname, lastname, gender, and all department details)* of the employee 21. |
| select firstname, lastname, gender, d.name, d.location, e1.fromdate, e1.todate from n2employee e, n2department d, n2employee\_department e1 where e.id = e1.employeeid and e1.departmentid = d.id and e1.employeeid=21; |
|  |
| 1. Get *(employee id, firstname, lastname, gender, and all hobby name)* for all employees. |
| select e.id, firstname, lastname, gender, h.name from n2employee e, n2hobbies h where e.id = h.employeeid; |
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| 1. Get highest salary of the current employee. |
| select max(salary) from n2salary where (employeeid, todate) in (select employeeid, max(todate) from n2salary group by employeeid); |
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| 1. Display employee details and his job history details for all employees. |
| select \* from n2employee e, n2jobhistory j where e.id = j.employeeid; |
|  |
| 1. Display *(employee id, firstname, lastname, gender, his previous employeer, fromdate, and todate)* for the employee whose id is 20. |
| select id, firstname, lastname, gender, employeer, fromdate, todate from n2employee e, n2jobhistory j where e.id = j.employeeid and e.id=20; |
|  |
| 1. Display *(employee id, firstname, lastname, gender, his/her employeer, fromdate, and todate)* who had previously worked under ‘leena’ |
| select e.id, e.firstname, e.lastname, e.gender, j.employeer, j.fromdate, j.todate from n2employee e, n2jobhistory j where e.id = j.employeeid and employeer = 'leena'; |
|  |
| 1. Get the first name, last name, department number and department name, for all employees for current department ID is 10 or 70. |
| select \* from n2employee e, n2department d where (e.id, d.id) in (select employeeid, departmentid from n2employee\_department where (employeeid, todate) in (select employeeid, max(todate) from n2employee\_department group by employeeid)and departmentid in (10, 70)); |
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| 1. Get all department details where no employees are working. |
| select \* from n2department d where d.id not in (select departmentid from n2employee\_department where (employeeid, todate) in (select employeeid, max(todate) from n2employee\_department group by employeeid)); |
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| 1. Get employee firstname and phone no employee id is 7. |
| select firstname, phonenumber from n2employee e, n2contact c where e.id = c.employeeid and e.id=7; |
|  |
| 1. Get employee details with hobbies. |
| select \* from n2employee e, n2hobbies h where e.id = h.employeeid; |
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| 1. Get the list of employees having hobby is ‘Running’ |
| select \* from n2employee e, n2hobbies h where e.id = h.employeeid and name = 'Running'; |
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| 1. Display all employee and address details who are staying in ‘New York’ city. |
| select \* from n2employee e, n2address a where e.id = a.employeeid and a.city='New York'; |
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| 1. Display *employeeid, phonenumber, emailid, line1, line2*, and *city* (*from n2contact and n2address relation*). |
| select c.employeeid, phonenumber, emailid,line1, line2,city from n2contact c, n2address d where c.employeeid = d.employeeid order by c.employeeid; |
|  |
| 1. Display *firstname, lastname, gender, line1, line2, city,* and *pin* whose *pin* starts with 3. |
| select firstname, lastname, gender, line1, line2, city, pin from n2employee e, n2address a where e.id = a.employeeid and pin like '3%'; |
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| 1. Get all employee details whose qualification is ‘M.Com.’. |
| select e.\* from n2employee e, n2qualification q where e.id = q.employeeid and name='M.Com.'; |
|  |
| 1. Display all employee, qualification name, and grade whose grade is ‘A’ and has done ‘BE’. |
| select e.\*,name, grade from n2employee e, n2qualification q where e.id = q.employeeid and grade = 'A' and name='BE'; |
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| 1. Display all employee details and his qualification name, and stream who have done ‘arts’. |
| select e.\*,name, grade, stream from n2employee e, n2qualification q where e.id = q.employeeid and stream ='arts'; |
|  |
| 1. Display all employee details and his qualification name, and stream who have done ‘arts’ is 12th. |
| select e.\*,name, grade, stream from n2employee e, n2qualification q where e.id = q.employeeid and stream ='arts' and name=12; |
|  |
| 1. Get *(employee id, firstname, lastname, gender, phonenumber, and emailid)* for all employees whose length of email id is more than 20 characters. |
| select id, firstname, lastname, gender, phonenumber, and emailid from n2employee e, n2contact c where e.id = c.employeeid and length(emailid) > 20; |
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| 1. Display all employee with address details who are staying in ‘PUNE’ city. |
| select \* from n2employee e, n2address a where e.id = a.employeeid and city = 'PUNE'; |
|  |
| 1. Display all employee with address and hobby details whose hobby is ‘RUNNING’. |
| select \* from n2employee e, n2address a, n2hobbies h where e.id = a.employeeid and e.id = h.employeeid and name = 'running'; |
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| 1. Display (*id, firstname, lastname, gender, hiredate, departmentid,* and *todate*) for their current department. |
| select e.\*, departmentid, todate from n2employee e, n2employee\_department ed where (ed.employeeid, ed.todate) in (select employeeid, max(todate) from n2employee\_department group by employeeid) and e.id = ed.employeeid order by employeeid; |
|  |
| 1. Display (*id, firstname, lastname, gender, hiredate, departmentid, name, todate* and *location*) for their current department. |
| select e.\*, d.\* from n2employee e, n2department d, n2employee\_department ed where (ed.employeeid, ed.todate) in (select employeeid, max(todate) from n2employee\_department group by employeeid) and e.id = ed.employeeid and ed.departmentid = d.id order by employeeid; |
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