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Batch CSE-06

Branch CSE

Subject DBMS

Assignment 5

Ques 1 Display all Employee names & their department names

select concat(employee.fname, concat(' ', employee.lname)) as "Employee Name", dept.deptname from employee INNER JOIN dept ON employee.deptid = dept.deptid;

```
SQL> select concat(employee.fname, concat(' ', employee.lname)) as "Employee Name", dept.deptname  
2 from employee INNER JOIN dept ON employee.deptid = dept.deptid;
```

Employee Name	DEPTNAME
John Smith	Finance
Nikhil Gupta	Finance
Derek Dave	Infosys
Alex McCall	Infosys
Larry Houstan	Marketing

Ques 2 Find name of the supervisor for employee number 433.

select concat(employee.fname, concat(' ', employee.lname)) as "Employee Name", supervisor from employee where

EmployeeID = '433';

```
SQL> select concat(employee.fname,concat(' ',employee.lname)) as "Employee Name",supervisor  
2 from employee where EMPLOYEEID = '433';
```

Employee Name	SUPERVISOR
Alex McCall	543

Ques 3 Find all employee's ~~salary~~ full names (last name, first name format) with salary, & their supervisor's name with salary.

select concat(employee.lname,concat(' ',employee.fname))
as "Employee Name", supervisor, salary from employee;

```
SQL> select concat(employee.lname,concat(' ',employee.fname)) as "Employee Name", supervisor, salary from employee;
```

Employee Name	SUPERVISOR	SALARY
Smith John		320650
Houston Larry	111	150000
Gupta Nikhil	111	75000
Dave Derek	111	80000
McCall Alex	543	66500

Ques 4 Find each employee's salary information & level based on the salary.

select concat(employee.fname, concat(' ', employee.lname))
"Employee Name", employee.salary, emplevel.levelno from
employee INNER JOIN emplevel ON employee.salary >=

emplevel.lowsalary and employee.salary <= emplevel.
highsalary;

```
SQL> select concat(employee.fname,concat(' ',employee.lname)) "Employee name",employee.Salary,emplevel.levelno
2 from employee INNER JOIN emplevel ON employee.salary>=emplevel.lowsalary and
3 employee.salary<=emplevel.highsalary;
```

Employee name	SALARY	LEVELNO
John Smith	320650	4
Larry Houston	150000	4
Derek Dave	80000	3
Nikhil Gupta	75000	3
Alex McCall	66500	3

Ques 5 Display each employee's name, department name,
position description, & qualification description.

```
select concat (employee.lname, concat(' ', employee.fname))
as "Employee Name", dept.deptname, position.poscdesc,
qualification.qualdesc from Employee INNER JOIN Dept
ON Employee.deptID=dept.deptid INNER JOIN position ON
Employee.PositionID=Position.PositionID INNER JOIN
Qualification ON Employee.QualID=Qualification.QualID;
```

```
SQL> select concat(employee.lname, concat(' ',employee.fname)) as "Employee Name", dept.deptname, position.poscdesc,
2 qualification.qualdesc from Employee INNER JOIN Dept ON Employee.deptid=dept.deptid INNER JOIN position ON Employee.PositionID=Position.PositionID
3 INNER JOIN Qualification ON Employee.QualID = Qualification.QUALID;
```

Employee Name	DEPTNAME	POSDESC	QUALDESC
Smith,John	Finance	President	Doctorate
Dave,Derek	Infosys	Manager	Doctorate
Gupta,Nikhil	Finance	Manager	Masters
Houston,Larry	Marketing	Manager	Masters
McCall,Alex	Infosys	Programmer	Associates

Ques 6 Find all employee in the sales department.

Select concat(employee.fname, concat(',', employee.lname)) as "Employee Name", dept.deptname from Employee
INNER JOIN Dept ON Employee.deptID = dept.deptID
where dept.deptname = 'Sales';

```
SQL> select concat(employee.fname, concat(',', employee.lname)) as "Employee Name", dept.deptname  
2 from Employee INNER JOIN Dept ON Employee.deptid = dept.deptid where dept.deptname = 'Finance';
```

Employee Name	DEPTNAME
John,Smith	Finance
Nikhil,Gupta	Finance

Ques 7 Display employee name & dependent information
using an outer join.

Select concat(employee.lname, concat(',', employee.fname)) as "EmployeeName", dependent.relation
Employee FULL OUTER JOIN Dependent ON Employee.
EmployeeID = Dependent.EmployeeID;

```
SQL> select concat(employee.lname, concat(',', employee.fname)) as "Employee Name", dependent.* from  
2 Employee FULL OUTER JOIN Dependent ON Employee.EmployeeID = Dependent.EmployeeID;
```

Employee Name	EMPLOYEEID	DEPENDENTID	DEPDOB	RELATION
Dave,Derek	543	1	28-SEP-58	Spouse
,	200	2	14-OCT-88	Son
,	222	3	06-OCT-76	Spouse
Smith,John	111	1	02-APR-75	Daughter
Gupta,Nikhil	123	2	23-AUG-97	Son
McCall,Alex				
Houston,Larry				

7 rows selected.

Ques 8 Find out the names & number of years worked along with their department names in descending order by number of years worked.

```
select employee.fname, TRUNC((Extract(Years from Sysdate) - Extract(Years from Hiredate))) as "Total Number of Years",  
dept.deptname from Employee INNER JOIN dept ON  
dept.Employee = Employee.EmployeeID Order by  
TRUNC((Extract(Years from Sysdate) - Extract(Years from Hiredate))) Desc;
```

```
SQL> select employee.fname, TRUNC(( EXTRACT(YEAR FROM SYSDATE) - EXTRACT(YEAR FROM HireDate) )) as "Total Number of Years",  
2 dept.deptname from Employee INNER JOIN Dept ON dept.EmployeeID = Employee.EmployeeID  
3 Order by TRUNC(( EXTRACT(YEAR FROM SYSDATE) - EXTRACT(YEAR FROM HireDate) )) Desc;
```

FNAME	Total Number of Years	DEPTNAME
John	62	Managing
Larry	55	Marketing
Nikhil	31	Finance
Derek	27	Infosys

Ques 9 Who works in the same department in which John Smith works

```
select employee.fname, employee.lname, deptname dept.  
deptname from employee INNER JOIN dept ON  
employee.deptid = dept.deptid where dept.deptid =  
(select employee.deptid from employee where employee.  
fname = 'John') And fname != 'John';
```

```
SQL> select employee.fname, employee.lname, dept.deptname from employee INNER JOIN
2 dept ON employee.deptid = dept.deptid where
3 dept.deptid=(select employee.deptid from employee where employee.fname='John')
4 AND fname != 'John';
```

FNAME	LNAME	DEPTNAME
Nikhil	Gupta	Finance

Ques 10 Display a student's full name along with his/her major's description.

```
select concat(student.fname, concat(',', student.lname))
as "Student Name", major.majordesc from Student
INNER JOIN Major ON Major.MajorID = Student.
MajorID;
```

```
SQL> select concat(student.fname, concat(',', student.lname)) as "Student Name", major.majordesc
2 from Student INNER JOIN Major ON Major.MajorID = Student.MajorID;
```

Student Name	MAJORDESC
Tom,Cruise	Accounting
Mickey,Tyler	Computer Science
Rajesh,Patel	Telecommunication
Deborah,Rickles	Mechanical
Brian, Lee	Electronics

Ques 11 Get names of Students, who received final grade 'F' in ~~Final~~ Winter 2003.

```
select concat(student.fname, concat(',', student.lname))
as "Student Name" from Student INNER JOIN
CRSESECTION ON CRSESECTION.FacultyID = Student.FacultyID
INNER JOIN TERM ON TERM.TERMID = CRSESECTION.TERMID
where ENDDATE Between TO_DATE('2022-11-01', 'YYYY-MM-DD')
```

AND TO_DATE('2023-02-01','YYYY-MM-DD');

```
SQL> select concat(student.fname, concat(',', Student.lname)) as "Student Name" from STUDENT INNER JOIN  
2 CRSSECTION ON CRSSECTION.FACULTYID = STUDENT.FACULTYID INNER JOIN TERM ON TERM.TERMID = CRSSECTION.TERMID  
3 where ENDDATE Between TO_DATE('2022-11-01','YYYY-MM-DD') AND TO_DATE('2023-02-01','YYYY-MM-DD');
```

Student Name

Tom,Cruise

Ques 12 Display Student names, their faculty advisors names, & faculty's office location.

```
select concat(student.fname, concat(',', Student.lname)) as "Student Name", Faculty.Name, Location.  
Building, Location.RoomNo from Student INNER JOIN  
Faculty FacultyID = Student.FacultyID INNER JOIN  
Location ON Location.RoomID = Faculty.RoomID;
```

```
SQL> select concat(student.fname, concat(',', Student.lname)) as "Student Name", FACULTY.NAME,  
2 LOCATION.BUILDING, LOCATION.ROOMNO from STUDENT INNER JOIN FACULTY ON  
3 FACULTY.FACULTYID = STUDENT.FACULTYID INNER JOIN  
4 LOCATION ON LOCATION.ROOMID = FACULTY.ROOMID;
```

Student Name

NAME

BUILDING

ROOMNO

Rajesh,Patel

Rajdeep

WingA

501

Tom,Cruise

Biswajit

WingC

703

Ques 13 Get Spring course sections with the faculty member assigned to teach the class. Include course sections without any faculty assigned to them.

Select crssection.*, Faculty.Name "Faculty Name"
 from CRSSECTION FULL JOIN Faculty ON CRSSECTION.
 FacultyID = Faculty.FacultyID FULL JOIN TERM ON
 CRSSECTION.TERMID = TERM.TERMID where startdate between
 TO_DATE('01-01-2022', 'DD-MM-YYYY')
 AND TO_DATE('01-06-2022', 'DD-MM-YYYY');

```
SQL> select CRSSECTION.*, FACULTY.NAME "Faculty Name" from CRSSECTION FULL JOIN
2 FACULTY on CRSSECTION.FACULTYID=FACULTY.FACULTYID FULL JOIN TERM on
3 CRSSECTION.TERMID=TERM.TERMID where startdate between
4 To_DATE('01-01-2022', 'DD-MM-YYYY') AND TO_DATE('01-06-2022', 'DD-MM-YYYY');
```

CSID	COURSEID	SECTION	TERMID	FACULTYID	DAY	STARTTIME	ENDTIME	ROOMID
MAXCOUNT	Faculty Name							
1101	CS1001	01	SP22	111	Mon	09:00	10:30	13
	30 Rajdeep							

Ques 14 Display course titles along with their prerequisite name. Display courses without prerequisite also

select title, prereq from courses;

```
SQL> select title , prereq from course;
```

TITLE	PREREQ
DSA	
DBMS	SQL
OS	BASH
WebTech	HTML
COA	