Name Alok Anand Roll No 20051481 Batch CSE-19 Bonanch CSE Subject DBMS

Assignment -6

Ques 1 Display employee John Smith's department select employee frame, employee Iname, dept. deptrame from employee INNER JOIN Dept ON employee deptid = dept. deptid where employee frame = (select frame from employee where frame = 'John');

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

select supervison from employee where employee id = (select employee id from employee where employee id = 433);

Ques 3 Who has same qualification as Lavory.

Belect employee. frame, employee. Iname, qualification.

qualdesc from employee INNER JOIN Qualifications ON

Qualification. QualID = Employee. QualID where qualification.

qual. ID = (select employee. qual ID from employee where employee frame = 'Larry') AND frame < > 'Larryy';

Ques 4 Which department has more employees than department 20.

select deptid, count(*) from employee group by deptid having count(*) > (select count(*) from employee where deptid = 10);

```
SQL> select deptid, count(*) from employee group by deptid having count(*)>
2 (select count(*) from employee where deptid=10);

DEPTID COUNT(*)

20 2
```

Ques 5 Which employees are working in the company longer than Lavery.

Select hiredate from employee where frame = 'Larry's,

Ques 6 Find all employees in sales department by using a nested query.

select concot (employee. finame, concot (',', employee. Lname))
as "Employee Name", dept. deptname from Employee
INNER JOIN Dept ON Employee. dept1D = dept. dept1D
where dept. dept Name = "Sales";

	1 × 3	 · .		e6"	
			,',employee.lname)) as yee.deptid = dept.depti		
Employe	ee Name	D	EPTNAME		
John, Sr	mith	S	ales		

Ques 7 Coeste a new table, EMP30, I populate it with amployees in deportment 30, using an existing table of a subquery. Use employee od, Iname, finance, Hisedate, Salary

create table emp30 as select * from employee where deptid = 30;

select * forom emp 30;

SQL> select	* from emp30;							
EMPLOYEEID	LNAME	FNAME	POSITIONID SUPERVISOR	HIREDATE	SALARY CO	MMISSION	DEPTID	QUALID
	Smith Houstan	John Larry	1 Scott 2 Emma	15-APR-60 19-MAY-67	320650	35000 10000	30 40	1 2

Ques 8 Add more nows to EMP30 table with amployee in department 40

insert into emp30 (employee id, Iname, frame, position id, supervison, hiredate, commission, deptid, qualid) select employee id, Iname, frame, positionid, supervisor, hiredate, commission, deptid, qualid from employee where deptid= 40;

SQL> insert into emp30 (employeeid, lname, fname, positionid, supervisor, hiredate, commission, deptid, qualid)
2 select employeeid, lname, fname, positionid, supervisor, hiredate, commission, deptid, qualid from employee where deptid=40;
1 row created.

Ques q Update salvery of newly townsferred employee from employee table to EMP30 table with MERGIE Statement, I Insert employees who are not in EMP30 table.

Morge Into emp30 o USING (Select EmployeeID, Linux, Frame, Hireclate, Salary forom Employee) & ON

(o. Employee of = e. EmployeeID) when Matched Then

Update Set o. Salary When NOT MATCHE!

Then INSERT (o. EmployeeID, o. Lnome, o. Frame, o. Hireolate, o. Salary) values (e. EmployeeID, e. Iname, e. frame,
e. Hireclate, e. Salary);

2 e ON (o.EmployeeId 3 SET o.Salary = e.Sa	= e.EmployeeId)WHEN M lary WHEN NOT MATCHED	eeId, Lname, Fname, HireDate, Salar ATCHED THEN UPDATE THEN INSERT (o.EmployeeId,o.Lname, ireDate,e.Salary,e.deptid);			/,o.deptid)		
5 rows merged.							
SQL> select * from emp30							
offs serece thom cuibse	•						
MPLOYEEID LNAME	FNAME	POSITIONID SUPERVISOR	HIREDATE	SALARY (COMMISSION	DEPTID	QUALID
							QUALID
111 Smith	John	POSITIONID SUPERVISOR 1 Scott	HIREDATE 	SALARY (COMMISSION 	DEPTID 	QUALID 1
			15-APR-60	320650		30	QUALID 1 1
111 Smith 433 McCall	John Alex		15-APR-60 05-MAY-97	320650 66500		30 20	QUALID 1 1
111 Smith 433 McCall 543 Dave	John Alex Derek		15-APR-60 05-MAY-97 15-MAR-95	320650 66500 80000		30 20 20	QUALID 1 1 2

Ques 10 Find employees with minimum salary in their own department with the use of correlated subquery.

Select Iname, frame, salvey, deptiD from employee c where salvey: (Select Min(Salvey) from employee where DeptiD= 0. DeptiD group by deptiD);

	ame, Fname, Salary, Dep oyee WHERE DeptId = o.0			ary = (SELECT MIN(Sa	lary)
LNAME	FNAME	SALARY	DEPTID		
Smith	John	320650	30		
Houstan Gupta	Larry Nikhil	150000 75000	40 10		
McCall	Alex	66500	20		
				Company of the	

Ques 11 Use multiple level subqueing to display dependent information for employee who belongs to finance department

select * from dependent where employeeid = (select employeeid from dept where depthone = 'Finance');

```
SQL> select * from dependent where employeeid =
2 (select employeeid from dept where deptname='Finance');

EMPLOYEEID DEPENDENTID DEPDOB RELATION

123 2 23-AUG-97 Son
```

Ques 12 Use set operator of subquery to find employees who do not have any dependents.

select Iname, from from employee where employee id = ANY (Select employee id from employee minus select distinct employee id from dependent);

```
SQL> (select employeeid from employee minus select distinct employeeid from dependent);

EMPLOYEEID

------
246
433
```

Ques 13 Write subquery that finds overage salary by each department. Check to find if employee 543's by each department. Check to find if employee 543's Salary satisfies = ANY < ANY, > ANY, < ALL, 097 > ALL salary those departmental overage salaries. Condition against those departmental overage salaries.

= ANY select Iname, frame from employee where employee id= 543 + 80lary = ANY (8elect avg(8alary) from employee group by deptiol);

SQL> select lname, fname from employee where employeeid=543 and salary =ANY 2 (select avg(salary) from employee group by deptid);
no rows selected

7 ANY

Select hame, frame from employee where employeeid: 543 and salary > ANY (select any (salary) from employee group by deptid);

SQL> select lname, fname from employee where employeeid=543 and salary >ANY
2 (select avg(salary) from employee group by deptid);

LNAME FNAME

Dave Derek

ANY

soled knowne, frame from employee where employeeid= 5+13 and Salary < ANY (select AVG, (salary) from employee group by deptid);

_	select lname, (select avg(sa				employeeid=543 by deptid);	and	salary	<any< th=""></any<>
LNAME	:	FNAM	E					
Dave		Dere	k					

> ALL

Select Iname, frame from employee where employee id: 543 and salvery > ALL (select ang (salvery) from employee oproup by deptid);

SQL> select lname, fname from employee where employeeid=543 and salary >ALL
2 (select avg(salary) from employee group by deptid);
no rows selected

< ALL

select Lname, frame from employee where employee id = 5+13 and salary < ALL (select ava(salary) from employee group by deptid);

SQL> select lname, fname from employee where employeeid=543 and salary <ALL 2 (select avg(salary) from employee group by deptid);

no rows selected

Ques 14 Display student Brian Lee faculty advisor's name & phone number.

select foculty name, faculty. phone forom faculty where faculty faculty id= (select faculty id from student where Inome = 'Lee' and frame = 'Borion');

SQL> select faculty.name, faculty.phone from faculty where faculty.facultyid =
2 (select facultyid from student where lname='Lee' and fname='Brian');
no rows selected

Ques 15 Find 9100ms with bottom 2 capacities. Do not include office 9100ms.

select * from location where room type!= '0' and capacity <= ANY (select capacity from (select) capacity from location where roomtype!= '0' group by capacity order by capacity) where rownum <= 2);

```
SQL> select * from location where roomtype != '0' and capacity <= ANY
2 (select capacity from (select capacity from location where roomtype != '0' group by capacity order by capacity)
3 where rownum <= 2);

ROOMID BUILDING ROOMNO CAPACITY ROOMTYPE

2 WingB 602 3 C
4 WingC 802 2 VCO
5 WingD 401 3 ADT
```

Ques 16 Find Spaing 2022 course sections with top three maximum court numbers

Select * from (select * from cresection where term I) = '8P22' order by max count desc) where gronum <=3;

		1 Y 2 9 X	<i>A</i>	'				
GQL> select * from (select * from crssection where termid='SP22' 2 order by maxcount desc) where rownum<=3;								
CSID	COURSEID	SECTION	TERMID	FACULTYID	DAY			
1101	CS1001	01	SP22	111	Mon			

Ques 17 Find all information regarding class 100 ms (Room Type = 'C')

select * from Location INNER JOIN ROOM ON ROOM.

ROOMType = Location. RoomType where Location. RoomType =
'C';

	location INNER JOIN RO	OOM ON Room.RoomType = omType = 'C';			
ROOMID	BUILDING	ROOMNO	CAPACITY ROOMTYPE	ROOMTYPE	ROOMDESC
2	WingB	602	3 C	С	Classroom

Ques 18 Create a new table, SP038ECT, for Spring 2003 semester course sections using a sub query Include course ID, Section, Faculty ID of Room ID columns only.

Create table 8P038ECT as select CourseID, Section, facultyID, RoomID from cresection;

select * from spossect;

SQL> select *	from SP03SECT;			
COURSEID	SECTION	FACULTYID	ROOMID	
DB2002 WT1006	01 03	123 345	13 14	
CO1004	02	345	14	

gues 19 Delete nows from 8P038ECT table for faculty.
Rajdeep.

I the property of the party of the property of

delete from 8P038ECT where faculty ID = (select faculty ID from faculty where nome: 'Rajdeep');

SQL> delete from SP03SECT where facultyID = (select facultyID from faculty where name='Rajdeep');

Jues 20 Find faculty member who do not teach any course in Spaing 2003 semester Use correlated subquery with NOT Exists operator on SPO3SECT table.

Select f. name from faculty f where NOT EXISTS (select * from cresection c where c. faculty ID = f. faculty ID and c. termID = '8P22');

```
SQL> SELECT f.name from faculty f WHERE NOT EXISTS

2 (select * from crssection c where c.facultyid = f.facultyid and c.termid = 'SP22');

NAME

Biswajit
HimansuDas
Williams
Collins
```