Assignment-5

Stream : IT

Subject : Database Management System Lab

Subject Code: IT-694

1. Find the names of faculties of CSE Department.

```
SQL> SELECT FacultyName FROM FACULTY_005 WHERE DeptCode = 'CSE';

FACULTYNAME

S.RoyChoudhury

P.Roy

SQL>
```

2. Find the number of faculties in the Master of Computer Application department

```
SQL> SELECT COUNT(*) AS faculty_count FROM FACULTY_005 WHERE DeptCode = 'MCA';

FACULTY_COUNT
------
1
```

3. Show the names of the heads of departments with department name.

```
SQL> SELECT HOD, DeptName FROM DEPARTMENT_005;

HOD DEPTNAME
F201 Information Technology
F801 Electrical Engineering
F101 Computer Science and Engineering
F701 Electronics Engineering
F301 Master of Computer Application
```

4. Find the names of 3rd year CSE students whose date of birth is earlier than 15th August 1981.

```
SQL> SELECT Name FROM Student_005 WHERE YearOfAdm = 3 AND DeptCode = 'CSE' AND BirthDate < '15/08/1981';
no rows selected
```

5. Find the number of faculties who joined in August.

```
SQL> SELECT COUNT(*) AS faculty_count FROM FACULTY_005 where DateOfJoin like '___08%';

FACULTY_COUNT
1
```

6. Add an extra attribute to the faculty table - Salary Number(8,2)

```
SQL> alter table FACULTY_005 ADD Salary Number(8,2);

Table altered.

SQL> select * from FACULTY_005;

FACU FACULTYNAME DATEOFJO DEPT SALARY

F101 S.RoyChoudhury 01-10-05 CSE
F105 P.Roy 01-05-06 CSE
F201 D.Dutta 24-08-05 IT
F301 S.Paul 15-03-03 MCA
F401 D.Majumdar 01-02-02 IT
F501 N.Sanyal 31-12-03 EE
F601 I.Majumdar 10-04-00 ECE
F701 S.Ghosh 01-01-04 ECE
F801 P.Das 15-06-02 EE
```

7. Insert values into the corresponding field **Salary Number(8,2)** (Enter distinct values).

```
SQL> update FACULTY 005 set Salary = 600000 where FacultyName = 'S.Ghosh';
1 row updated.
SQL> update FACULTY 005 set Salary = 600000 where FacultyName = 'P.Das';
1 row updated.
SQL> COMMIT
Commit complete.
SQL> SELECT * FROM FACULTY 005;
FACU FACULTYNAME
                         DATEOFJO DEPT
                                               SALARY
F101 S.RoyChoudhury 01-10-05 CSE
                                               700000
              01-05-06 CSE
24-08-05 IT
F105 P.Roy
                                               800000
F201 D.Dutta
                                               800000
F301 S.Paul 15-03-03 MCA
F401 D.Majumdar 01-02-02 IT
F501 N.Sanyal 31-12-03 EE
F601 I.Majumdar 10-04-00 ECE
F701 S.Ghosh 01-01-04 ECE
                                              600000
                                               400000
                                               500000
                                               600000
                                               600000
                        15-06-02 EE
F801 P.Das
                                               600000
9 rows selected.
```

8. Find the Department having more than one faculty.

```
SQL> SELECT DeptCode FROM FACULTY_005 GROUP BY DeptCode HAVING COUNT(*) > 1;

DEPT
----
IT
EE
CSE
ECE
```

9. Find the name, department of the faculties who earn between 8000 and 12000.

```
SQL> SELECT FacultyName, DeptCode FROM FACULTY_005 where Salary BETWEEN 8000 AND 12000;
no rows selected
```

10. Find the department having maximum number of students or faculties

```
SQL> SELECT DeptCode, MAX(MaxMember) AS Max FROM (SELECT DeptCode, COUNT(*) AS MaxMember FROM Student_005 GROUP BY DeptCode UNION ALL SELECT DeptCode, COUNT(*) AS MaxMember FROM Student_005 GROUP BY DeptCode UNION ALL SELECT DeptCode, COUNT(*) AS MaxMember FROM Student_005 GROUP BY DeptCode UNION ALL SELECT DeptCode, COUNT(*) AS MaxMember FROM Student_005 GROUP BY DeptCode UNION ALL SELECT DeptCode, COUNT(*) AS MaxMember FROM Student_005 GROUP BY DeptCode UNION ALL SELECT DeptCode, COUNT(*) AS MaxMember FROM Student_005 GROUP BY DeptCode UNION ALL SELECT DeptCode, COUNT(*) AS MaxMember FROM Student_005 GROUP BY DeptCode UNION ALL SELECT DeptCode, COUNT(*) AS MaxMember FROM Student_005 GROUP BY DeptCode UNION ALL SELECT DeptCode, COUNT(*) AS MaxMember FROM Student_005 GROUP BY DeptCode UNION ALL SELECT DeptCode, COUNT(*) AS MaxMember FROM Student_005 GROUP BY DeptCode UNION ALL SELECT DeptCode, COUNT(*) AS MaxMember FROM Student_005 GROUP BY DeptCode UNION ALL SELECT DeptCode, COUNT(*) AS MaxMember FROM Student_005 GROUP BY DeptCode UNION ALL SELECT DeptCode, COUNT(*) AS MaxMember FROM Student_005 GROUP BY DeptCode UNION ALL SELECT DeptCode, COUNT(*) AS MaxMember FROM Student_005 GROUP BY DeptCode UNION ALL SELECT DeptCode, COUNT(*) AS MaxMember FROM Student_005 GROUP BY DeptCode UNION ALL SELECT DeptCode, COUNT(*) AS MaxMember FROM Student_005 GROUP BY DeptCode UNION ALL SELECT DeptCode, COUNT(*) AS MaxMember FROM STUDENT_005 GROUP BY DeptCode UNION ALL SELECT DeptCode, COUNT(*) AS MaxMember FROM STUDENT_005 GROUP BY DeptCode UNION ALL SELECT DeptCode, COUNT(*) AS MaxMember FROM STUDENT_005 GROUP BY DeptCode UNION ALL SELECT DeptCode, COUNT(*) AS MaxMember FROM STUDENT_005 GROUP BY DeptCode UNION ALL SELECT DeptCode, COUNT(*) AS MaxMember FROM STUDENT_005 GROUP BY DeptCode UNION ALL SELECT DeptCode, COUNT(*) AS MaxMember FROM STUDENT_005 GROUP BY DeptCode UNION ALL SELECT DeptCode UN
```

11. Display the details of HOD of the department where 'S.Ghosh' belongs.

SQL> SELECT * FROM FACULTY_005 WHERE FacultyCode=(select HOD from DEPARTMENT_005 WHERE DeptCode = (select DeptCode from FACULTY_005 WHERE FacultyName='S.Ghosh'));

FACU FACULTYNAME DATEOFJO DEPT SALARY

F701 S.Ghosh 01-01-04 ECE 600000