A. Add extra attribute to the Subject table - department varchar2 (4), year varchar2 (1)

```
SQL> alter table SUBJECT add DEPARTMENT VARCHAR2(3);
ALTER TABLE SUBJECT ADD YEAR NUMBER(4);
Table altered.
SQL>
Table altered.
SQL> describe subject;
                                            Null?
 Name
                                                      Type
 SUBJECTCODE
                                            NOT NULL VARCHAR2(4)
 SUBJECTNAME
                                            NOT NULL VARCHAR2(15)
 FACULTYCODE
                                            NOT NULL VARCHAR2(4)
 DEPARTMENT
                                                      VARCHAR2(3)
 YEAR
                                                      NUMBER (4)
```

B. Insert values into the fields - department, year.

update subject set year= 3;

update subject set department= 'CSE';

update faculty set salary = salary + 50000 where FACULTYCODE = 'FHH';

update faculty set salary = salary + 5000 where FACULTYCODE = 'FAA';

SUBJ	SUBJECTNAME	FACU	DEP	YEAR	
2 2 7 7 4			7.7.7		
2501	DBMS	FHH	CSE	3	
IT01	SOFTWARE	FAA	CSE	3	
2502	0S	FBB	CSE	3	
PH01	LIGHT	FCC	CSE	1	
101	ALGEBRA	FDD	CSE	2	
1001	CHARECTER	FEE	CSE	1	

C. Find the maximum salary among the faculties.

```
SQL> SELECT MAX(SALARY) FROM FACULTY;

MAX(SALARY)

65000
```

D. Find the names of faculties who earn more than the average of all faculties.

E. List the names of faculties of CSE department who earn more than the average salary of the department.

```
SQL> SELECT FACULTYNAME, SALARY FROM FACULTY WHERE SALARY > (SELECT AVG(SALARY) FROM FACULTY) AND DEPTCODE='CSE';

FACULTYNAME SALARY

ANANYA MAM 65000
```

F. Find the maximum and minimum salaries among faculties.

```
SQL> SELECT MAX(SALARY), MIN(SALARY) FROM FACULTY;
MAX(SALARY) MIN(SALARY)
65000 15000
```

G. Find the second maximum salary among all faculties.

SQL> SELECT MAX(SALARY) FROM FACULTY WHERE SALARY < (SELECT MAX(SALARY) FROM FACULTY); MAX(SALARY) 20000

H. Find the names of faculties who are not the HOD's of any department.

SQL> SELECT FACULTYNAME FROM FACULTY WHERE FACULTYNAME NOT IN (SELECT HOD FROM DEPARTMENT); FACULTYNAME ANANYA MAM PAPRI MAM KKS MAM IVY MAM PHULTULI MAM DCD MAM

I. Find the names of subjects for students of CSE 3

SQL> SELECT SUBJECTNAME FROM SUBJECT WHERE YEAR =3; SUBJECTNAME DBMS SOFTWARE 05