Assignmnet -3

(a) Create table **SUBJECT** and insert appropriate values.

Column Name	Data Type	Size	Constraints
SubjectCode	Varchar2	6	Primary key
SubjectName	Varchar2	30	Not null
DeptCode	Varchar2	3	Foreign key Department(DeptCode)
Semester	Varchar2	4	Not Null

create table SUBJECT2076(
SubjectCode varchar2(6) primary key,
SubjectName varchar2(30) not null,
DeptCode varchar(4) references DEPARTMENT2076(DeptCode),
Semester varchar2(4) not null);

```
SQL> desc SUBJECT2076;
 Name                                      Null?    Type
 ----------------------------------------- -------- ----------------
 SUBJECTCODE                               NOT NULL VARCHAR2(6)
 SUBJECTNAME                               NOT NULL VARCHAR2(30)
 DEPTCODE                                           VARCHAR2(4)
 SEMESTER                                  NOT NULL VARCHAR2(4)
```

INSERT INTO SUBJECT2076 values ('CS301', 'Data Structure', 'CSE', 'SEM3');
INSERT INTO SUBJECT2076 VALUES('CS302', 'Computer Organization', 'CSE', 'SEM3');
INSERT INTO SUBJECT2076 VALUES('CS501', 'Discrete Mathematics', 'CSE', 'SEM5');
INSERT INTO SUBJECT2076 VALUES('CS502', 'Data Communication', 'CSE', 'SEM5');
INSERT INTO SUBJECT2076 VALUES('ECS501', 'Data Base systems', 'ECE', 'SEM5');
INSERT INTO SUBJECT2076 VALUES('EC501', 'Analog Signals', 'ECE', 'SEM5');
INSERT INTO SUBJECT2076 VALUES('CS503', 'Operating Systems', 'CSE', 'SEM5');

```
SUBJEC SUBJECTNAME                    DEPT SEME
------ ------------------------------ ---- ----
CS301  Data Structure                 CSE  SEM3
CS302  Computer Organization          CSE  SEM3
CS501  Discrete Mathematics           CSE  SEM5
CS502  Data Communication             CSE  SEM5
ECS501 Data Base systems              ECE  SEM5
EC501  Analog Signals                 ECE  SEM5
CS503  Operating Systems              CSE  SEM5
```

(b) Create table: **RESULT**

Column Name	Data Type	Size	Constraints
RollNo	Number	6	Not Null, Foreign key Student references
Sub_code	Varchar2	8	Not null
Marks	Number	3	<=100
Pass Marks	Number	2	

Primary key (rollno,Sub_code)

CREATE TABLE RESULT2076(
RollNo NUMBER(6) NOT NULL references STUDENT2076(RollNo),
Sub_code VARCHAR2(8) NOT NULL,
Marks NUMBER(3) CHECK (Marks <= 100),
PassMarks NUMBER(2),
PRIMARY KEY (RollNo, Sub_code));

```
SQL> desc RESULT2076;
 Name                                      Null?    Type
 ----------------------------------------- -------- -------------
 ROLLNO                                    NOT NULL NUMBER(6)
 SUB_CODE                                  NOT NULL VARCHAR2(8)
 MARKS                                              NUMBER(3)
 PASSMARKS                                          NUMBER(2)
```

INSERT INTO RESULT2076 VALUES (1001, 'CS501', 68, 40);
INSERT INTO RESULT2076 VALUES(1002, 'CS501', 76, 40);
INSERT INTO RESULT2076 VALUES(1003, 'CS501', 91, 40);
INSERT INTO RESULT2076 VALUES(1001, 'CS502', 38, 40);
INSERT INTO RESULT2076 VALUES(1002, 'CS502', 81, 40);
INSERT INTO RESULT2076 VALUES(1003, 'CS502', 82, 40);
INSERT INTO RESULT2076 VALUES(1023, 'CS301', 92, 40);
INSERT INTO RESULT2076 VALUES(1029, 'CS301', 83, 40);
INSERT INTO RESULT2076 VALUES(1500, 'CS301', 65, 40);
INSERT INTO RESULT2076 VALUES(1023, 'CS302', 75, 40);
INSERT INTO RESULT2076 VALUES(1029, 'CS302', 71, 40);
INSERT INTO RESULT2076 VALUES(1500, 'CS302', 35, 40);
INSERT INTO RESULT2076 VALUES(2001, 'ECS501', 67, 30);
INSERT INTO RESULT2076 VALUES(2002, 'ECS501', 72, 30);
INSERT INTO RESULT2076 VALUES(2101, 'EC501', 77, 40);

```
    ROLLNO SUB_CODE        MARKS  PASSMARKS
---------- ---------- ---------- ----------
      1001 CS501              68         40
      1002 CS501              76         40
      1003 CS501              91         40
      1001 CS502              38         40
      1002 CS502              81         40
      1003 CS502              82         40
      1023 CS301              92         40
      1029 CS301              83         40
      1500 CS301              65         40
      1023 CS302              75         40
      1029 CS302              71         40

    ROLLNO SUB_CODE        MARKS  PASSMARKS
---------- ---------- ---------- ----------
      1500 CS302              35         40
      2001 ECS501             67         30
      2002 ECS501             72         30
      2101 EC501              77         40
```