

ASSIGNMENT 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 SUBJECT2078(
SubjectCode Varchar2(6) Primary key,
SubjectName Varchar2(30) Not null,
DeptCode Varchar(4) references DEPARTMENT2078(DeptCode),
Semester Varchar2(4) Not null);

```
SQL> DESC SUBJECT2078;
```

Name	Null?	Type
SUBJECTCODE	NOT NULL	VARCHAR2(6)
SUBJECTNAME	NOT NULL	VARCHAR2(30)
DEPTCODE		VARCHAR2(4)
SEMESTER	NOT NULL	VARCHAR2(4)

```
INSERT INTO SUBJECT2078 VALUES('CS301', 'Data Structure', 'CSE', 'SEM3');
INSERT INTO SUBJECT2078 VALUES('CS302', 'Computer Organization', 'CSE', 'SEM3');
INSERT INTO SUBJECT2078 VALUES('CS501', 'Discrete Mathematics', 'CSE', 'SEM5');
INSERT INTO SUBJECT2078 VALUES('CS502', 'Data Communication', 'CSE', 'SEM5');
INSERT INTO SUBJECT2078 VALUES('ECS501', 'Data Base systems', 'ECE', 'SEM5');
INSERT INTO SUBJECT2078 VALUES('EC501', 'Analog Signals', 'ECE', 'SEM5');
INSERT INTO SUBJECT2078 VALUES('CS503', 'Operating Systems', 'CSE', 'SEM5');
```

```
SQL> SELECT * FROM SUBJECT2078;
```

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

(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)

Insert rows in all the table.

```
CREATE TABLE RESULT2078(  
RollNo NUMBER(6) NOT NULL REFERENCES STUDENT2078(RollNo),  
Sub_code VARCHAR2(8) NOT NULL,  
Marks NUMBER(3) CHECK (Marks <= 100),  
PassMarks NUMBER(2),  
PRIMARY KEY (RollNo, Sub_code));
```

```
SQL> DESC RESULT2078;  
Name                               Null?    Type  
-----  
ROLLNO                             NOT NULL NUMBER(6)  
SUB_CODE                           NOT NULL VARCHAR2(8)  
MARKS                              NUMBER(3)  
PASSMARKS                          NUMBER(2)
```

```
INSERT INTO RESULT2078 VALUES (1001, 'CS501', 68, 40);  
INSERT INTO RESULT2078 VALUES (1002, 'CS501', 76, 40);  
INSERT INTO RESULT2078 VALUES (1003, 'CS501', 91, 40);  
INSERT INTO RESULT2078 VALUES (1001, 'CS502', 38, 40);  
INSERT INTO RESULT2078 VALUES (1002, 'CS502', 81, 40);  
INSERT INTO RESULT2078 VALUES (1003, 'CS502', 82, 40);  
INSERT INTO RESULT2078 VALUES (1023, 'CS501', 92, 40);  
INSERT INTO RESULT2078 VALUES (1029, 'CS301', 83, 40);  
INSERT INTO RESULT2078 VALUES (1500, 'CS301', 65, 40);  
INSERT INTO RESULT2078 VALUES (1023, 'CS302', 75, 40);  
INSERT INTO RESULT2078 VALUES (1029, 'CS302', 71, 40);  
INSERT INTO RESULT2078 VALUES (1500, 'CS302', 35, 40);  
INSERT INTO RESULT2078 VALUES (2001, 'ECS501', 67, 30);  
INSERT INTO RESULT2078 VALUES (2002, 'ECS501', 72, 30);
```

INSERT INTO RESULT2078 VALUES (2101, 'ECS501', 77, 40);

```
SQL> select * from RESULT2078;
```

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	CS501	92	40
1029	CS301	83	40
1500	CS301	65	40
1023	CS302	75	40
1029	CS302	71	40
1500	CS302	35	40
2001	ECS501	67	30
2002	ECS501	72	30
2101	ECS501	77	40