

Assignment – 7

i. Display student names along with the department name.

Select name, deptname from student2076 , department2076 where STUDENT2076.DeptCode = DEPARTMENT2076.DeptCode ;

```
SQL> Select name, deptname from student2076 , department2076 where STUDENT2076.DeptCode = DEPARTMENT2076.DeptCode ;
```

NAME	DEPTNAME
ANKIT DAS	Computer Science and Engineering
MOINAK GHOSH	Computer Science and Engineering
PARIMAL KUMAR	Computer Science and Engineering
SANCHITA SINGH	Electronics and Communication Engineering
ANANYA BISWAS	Electronics and Communication Engineering
ASHISH KUMAR	Electronics and Communication Engineering
NATIK PRASAD	Computer Science and Engineering
SATNAM JYOTI	Information Technology
SAURAV ROY	Electrical Engineering
ADARSH KUMAR	Computer Science and Engineering
NIKHIL SINGH	Electronics and Communication Engineering

NAME	DEPTNAME
SAMPRIKTA BISWAS	Computer Science and Engineering
RAHUL KHAN	Computer Science and Engineering
SHUBHAM	Computer Science and Engineering
GAURAV PRAKASH	Electronics and Communication Engineering
RAHUL JOSHI	Electrical Engineering
MRIGENDRA	Information Technology
SUBARNA MITRA	Computer Science and Engineering
AMARITA DEV	Computer Science and Engineering
AYUSH RAJ	Computer Science and Engineering

ii. Display student names, subject code and marks of students who took admission in the year 2017 and read subject CS502.

select name, sub_code marks from STUDENT2076, RESULT2076 where STUDENT2076.yearOfAdm = 2017 and STUDENT2076.ROLLNO = RESULT2076.ROLLNO and RESULT2076.sub_code = 'CS502';

```
SQL> select name, sub_code marks from STUDENT2076, RESULT2076 where STUDENT2076.yearOfAdm = 2017 and STUDENT2076.ROLLNO = RESULT2076.ROLLNO and RESULT2076.sub_code = 'CS502';
```

NAME	MARKS
ANKIT DAS	CS502

iii. Find the name of the students who got marks between 70 to 89 in CS501.

SQL> select name from STUDENT2076, RESULT2076 where RESULT2076.sub_code = 'CS501' and RESULT2076.rollno = STUDENT2076.rollno and (RESULT2076.marks>=70 and RESULT2076.marks<=89);

```
SQL> select name from STUDENT2076, RESULT2076 where RESULT2076.sub_code = 'CS501' and RESULT2076.rollno = STUDENT2076.rollno and (RESULT2076.marks>=70 and RESULT2076.marks<=89);
```

NAME
MOINAK GHOSH

iv. Find the student name, roll no who appeared in the examination for paper DBMS.

Select name, STUDENT2076.rollno from STUDENT2076, RESULT2076 , SUBJECT2076 where SUBJECT2076.subjectname = 'Data Base Systems' and SUBJECT2076.SUBJECTCODE = RESULT2076.sub_code and RESULT2076.rollno = STUDENT2076.rollno;

```
SQL> Select name, STUDENT2076.rollno from STUDENT2076, RESULT2076 , SUBJECT2076 where SUBJECT2076.subjectname = 'Data Base Systems' and SUBJECT2076.SUBJECTCODE = RESULT2076.sub_code and RESULT2076.rollno = STUDENT2076.rollno;
```

no rows selected

v. Show student names, subject code and marks for CSE 3rd year students.

```
SELECT NAME, SUB_CODE , MARKS FROM STUDENT2076, RESULT2076 WHERE
STUDENT2076.SEMESTER='SEM5' AND STUDENT2076.DEPTCODE='CSE' AND
STUDENT2076.ROLLNO=RESULT2076.ROLLNO;
```

```
SQL> SELECT NAME, SUB_CODE , MARKS FROM STUDENT2076, RESULT2076 WHERE
STUDENT2076.SEMESTER='SEM5' AND STUDENT2076.DEPTCODE='CSE' AND
STUDENT2076.ROLLNO=RESULT2076.ROLLNO; 2      3

NAME                SUB_CODE      MARKS
-----
ANKIT DAS           CS501         68
MOINAK GHOSH        CS501         76
PARIMAL KUMAR       CS501         91
ANKIT DAS           CS502         40
MOINAK GHOSH        CS502         81
PARIMAL KUMAR       CS502         82

6 rows selected.
```

vi. Show student names, department name for 5 th semester students who born in MAY.

```
SELECT NAME , DEPTNAME FROM DEPARTMENT2076, STUDENT2076 WHERE
STUDENT2076.SEMESTER='SEM5' AND EXTRACT(MONTH FROM
STUDENT2076.BIRTHDATE)=5
AND STUDENT2076.DEPTCODE=DEPARTMENT2076.DEPTCODE;
```

```
SQL> SELECT NAME , DEPTNAME FROM DEPARTMENT2076, STUDENT2076 WHERE
STUDENT2076.SEMESTER='SEM5' AND EXTRACT(MONTH FROM STUDENT2076.BIRTHDATE)=5
AND STUDENT2076.DEPTCODE=DEPARTMENT2076.DEPTCODE; 2      3

NAME                DEPTNAME
-----
MOINAK GHOSH        Computer Science and Engineering
```

vii. Show student names, subject name for 5th semester student where subject name contains the word 'DATA'

```
SELECT NAME, SUBJECTNAME FROM STUDENT2076, SUBJECT2076 WHERE
STUDENT2076.SEMESTER='SEM5' AND SUBJECT2076.SUBJECTNAME LIKE '%Data%' AND
STUDENT2076.DEPTCODE=SUBJECT2076.DEPTCODE AND
STUDENT2076.SEMESTER=SUBJECT2076.SEMESTER;
```

```
SQL> SELECT NAME, SUBJECTNAME FROM STUDENT2076, SUBJECT2076 WHERE
STUDENT2076.SEMESTER='SEM5' AND SUBJECT2076.SUBJECTNAME LIKE '%Data%' AND
STUDENT2076.DEPTCODE=SUBJECT2076.DEPTCODE AND
STUDENT2076.SEMESTER=SUBJECT2076.SEMESTER; 2      3      4

NAME                SUBJECTNAME
-----
ANKIT DAS           Data Communication
MOINAK GHOSH        Data Communication
PARIMAL KUMAR       Data Communication
SANCHITA SINGH      Data Base systems
ANANYA BISWAS       Data Base systems
ASHISH KUMAR        Data Base systems
NIKHIL SINGH        Data Base systems
RAHUL KHAN          Data Communication

8 rows selected.
```

viii. Show student names, subject name and marks for 5th semester students.

```
SELECT NAME, SUBJECTNAME, MARKS FROM STUDENT2076, SUBJECT2076, RESULT2076
WHERE
STUDENT2076.SEMESTER='SEM5' AND STUDENT2076.ROLLNO=RESULT2076.ROLLNO
AND
RESULT2076.SUB_CODE=SUBJECT2076.SUBJECTCODE;
```

```
SQL> SELECT NAME, SUBJECTNAME, MARKS FROM STUDENT2076, SUBJECT2076, RESULT2076 WHERE
STUDENT2076.SEMESTER='SEM5' AND STUDENT2076.ROLLNO=RESULT2076.ROLLNO AND
RESULT2076.SUB_CODE=SUBJECT2076.SUBJECTCODE; 2 3
```

NAME	SUBJECTNAME	MARKS
ANKIT DAS	Discrete Mathematics	68
MOINAK GHOSH	Discrete Mathematics	76
PARIMAL KUMAR	Discrete Mathematics	91
ANKIT DAS	Data Communication	40
MOINAK GHOSH	Data Communication	81
PARIMAL KUMAR	Data Communication	82
SANCHITA SINGH	Data Base systems	67
ANANYA BISWAS	Data Base systems	72
ASHISH KUMAR	Analog Signals	77

9 rows selected.

ix. Find the roll number, student names and marks for CSE students who get more than 80 in Data Structure.

```
SELECT STUDENT2076.ROLLNO, NAME, MARKS FROM STUDENT2076, RESULT2076 ,
SUBJECT2076
WHERE STUDENT2076.DEPTCODE='CSE' AND MARKS > 80 AND
STUDENT2076.ROLLNO=RESULT2076.ROLLNO AND
SUBJECT2076.SUBJECTNAME='Data Structure'
AND RESULT2076.SUB_CODE=SUBJECT2076.SUBJECTCODE;
```

```
SQL> SELECT STUDENT2076.ROLLNO, NAME, MARKS FROM STUDENT2076, RESULT2076 , SUBJECT2076
WHERE STUDENT2076.DEPTCODE='CSE' AND MARKS > 80 AND
STUDENT2076.ROLLNO=RESULT2076.ROLLNO AND SUBJECT2076.SUBJECTNAME='Data Structure'
AND RESULT2076.SUB_CODE=SUBJECT2076.SUBJECTCODE; 2 3 4
```

ROLLNO	NAME	MARKS
1023	SAMPRIKTA BISWAS	92
1029	NAITIK PRASAD	83

x. Show student names, department name, subject name and subject wise marks for which the student get more than 90.

```
SELECT NAME, DEPTNAME, SUBJECTNAME , MARKS FROM STUDENT2076 ,
DEPARTMENT2076,
```

SUBJECT2076, RESULT2076 WHERE MARKS > 90 AND STUDENT2076.ROLLNO =
 RESULT2076.ROLLNO
 AND STUDENT2076.DEPTCODE=DEPARTMENT2076.DEPTCODE AND
 RESULT2076.SUB_CODE=SUBJECT2076.SUBJECTCODE;

```
SQL> SELECT NAME, DEPTNAME, SUBJECTNAME , MARKS FROM STUDENT2076 , DEPARTMENT2076,
SUBJECT2076, RESULT2076 WHERE MARKS > 90 AND STUDENT2076.ROLLNO = RESULT2076.ROLLNO
AND STUDENT2076.DEPTCODE=DEPARTMENT2076.DEPTCODE AND
RESULT2076.SUB_CODE=SUBJECT2076.SUBJECTCODE; 2 3 4
```

NAME	DEPTNAME	
SUBJECTNAME		MARKS
SAMPRIKTA BISWAS Data Structure	Computer Science and Engineering	92
PARIMAL KUMAR Discrete Mathematics	Computer Science and Engineering	91

xi. Add column HOD in DEPARTMENT. Insert faculty id in place of HoD.

```
ALTER TABLE DEPARTMENT2076 ADD HOD VARCHAR2(4);
UPDATE DEPARTMENT2076 SET HOD = 'F01' WHERE DEPTCODE='CSE';
UPDATE DEPARTMENT2076 SET HOD = 'F02' WHERE DEPTCODE='ECE';
UPDATE DEPARTMENT2076 SET HOD = 'F03' WHERE DEPTCODE='IT';
UPDATE DEPARTMENT2076 SET HOD = 'F04' WHERE DEPTCODE='EE';
```

DEPT	DEPTNAME	STUDENT	ALLOCATED	BLOCK	HOD
CSE	Computer Science and Engineering	135	C		F01
ECE	Electronics and Communication Engineering	120	B		F02
IT	Information Technology	75	C		F03
EE	Electrical Engineering	60	B		F04

xii. Add column TEACHER in table SUBJECT. Insert faculty id in this column.

```
ALTER TABLE SUBJECT2076 ADD TEACHER VARCHAR2(4);
UPDATE SUBJECT2076 SET TEACHER = 'F01' WHERE SUBJECTCODE='CS301';
UPDATE SUBJECT2076 SET TEACHER = 'F02' WHERE SUBJECTCODE='CS302';
UPDATE SUBJECT2076 SET TEACHER = 'F03' WHERE SUBJECTCODE='CS501';
UPDATE SUBJECT2076 SET TEACHER = 'F04' WHERE SUBJECTCODE='CS502';
UPDATE SUBJECT2076 SET TEACHER = 'F05' WHERE SUBJECTCODE='ECS501';
UPDATE SUBJECT2076 SET TEACHER = 'F06' WHERE SUBJECTCODE='EC501';
UPDATE SUBJECT2076 SET TEACHER = 'F07' WHERE SUBJECTCODE='CS503';
```

SUBJECTC	SUBJECTNAME	DEPT	SEME	PASSMARKS	TEAC
CS301	Data Structure	CSE	SEM3	40	F01
CS302	Computer Organization	CSE	SEM3	40	F02
CS501	Discrete Mathematics	CSE	SEM5	40	F03
CS502	Data Communication	CSE	SEM5	40	F04
ECS501	Data Base systems	ECE	SEM5	30	F05
EC501	Analog Signals	ECE	SEM5	40	F06
CS503	Operating Systems	CSE	SEM5	40	F07

xiii. Show the department name, semester, subject name along with faculty name.

```
SELECT DEPTNAME, SEMESTER, SUBJECTNAME, NAME FROM
SUBJECT2076 ,DEPARTMENT2076 , FACULTY2076 WHERE
SUBJECT2076.DEPTCODE=DEPARTMENT2076.DEPTCODE AND
SUBJECT2076.TEACHER=FACULTY2076.FID;
```

DEPTNAME	SEME	SUBJECTNAME	NAME
Computer Science and Engineering	SEM3	Data Structure	Aloke Kumar Dutta
Computer Science and Engineering	SEM3	Computer Organization	Abhijit Roy
Computer Science and Engineering	SEM5	Discrete Mathematics	Probal Kumar
Computer Science and Engineering	SEM5	Data Communication	Mousumi Dey
Electronics and Communication Engineering	SEM5	Data Base systems	Sharmistha Nag
Electronics and Communication Engineering	SEM5	Analog Signals	Dipti Bhattacharyya
Computer Science and Engineering	SEM5	Operating Systems	Sanjay Kumar Das

7 rows selected.

xiv. Find the names of all faculties whose HOD name is given.

```
SELECT NAME , DEPARTMENT2076.DEPTNAME FROM FACULTY2076 ,
DEPARTMENT2076 WHERE
FACULTY2076.FID = DEPARTMENT2076.HOD;
```

NAME	DEPTNAME
Aloke Kumar Dutta	Computer Science and Engineering
Abhijit Roy	Electronics and Communication Engineering
Probal Kumar	Information Technology
Mousumi Dey	Electrical Engineering

xv. Display subject name, subject code, marks including all subjects. [Outer join]

```
SELECT SUBJECT2076.SUBJECTNAME, SUBJECT2076.SUBJECTCODE,
RESULT2076.MARKS FROM
SUBJECT2076 LEFT OUTER JOIN RESULT2076 ON
SUBJECT2076.SUBJECTCODE=RESULT2076.SUB_CODE;
```

SUBJECTNAME	SUBJECTC	MARKS
Discrete Mathematics	CS501	68
Discrete Mathematics	CS501	76
Discrete Mathematics	CS501	91
Data Communication	CS502	40
Data Communication	CS502	81
Data Communication	CS502	82
Data Structure	CS301	92
Data Structure	CS301	83
Data Structure	CS301	65
Computer Organization	CS302	80
Computer Organization	CS302	76
Computer Organization	CS302	40
Data Base systems	ECS501	67
Data Base systems	ECS501	72
Analog Signals	EC501	77
Operating Systems	CS503	

xvi. Display students name, subject code, marks. Include all students. [Outer join]

```
SELECT STUDENT2076.NAME, RESULT2076.SUB_CODE, RESULT2076.MARKS FROM
STUDENT2076 LEFT
OUTER JOIN RESULT2076 ON STUDENT2076.ROLLNO=RESULT2076.ROLLNO;
```

NAME	SUB_CODE	MARKS
ANKIT DAS	CS501	68
MOINAK GHOSH	CS501	76
PARIMAL KUMAR	CS501	91
ANKIT DAS	CS502	40
MOINAK GHOSH	CS502	81
PARIMAL KUMAR	CS502	82
SAMPRIKTA BISWAS	CS301	92
NAITIK PRASAD	CS301	83
SUBARNA MITRA	CS301	65
SAMPRIKTA BISWAS	CS302	80
NAITIK PRASAD	CS302	76
SUBARNA MITRA	CS302	40
SANCHITA SINGH	ECS501	67
ANANYA BISWAS	ECS501	72
ASHISH KUMAR	EC501	77
RAHUL JOSHI		
ADARSH KUMAR		
SHUBHAM		
AYUSH RAJ		
SAURAV ROY		
GAURAV PRAKASH		
MRIGENDRA		
AMARITA DEV		
NIKHIL SINGH		
RAHUL KHAN		
SATNAM JYOTI		

26 rows selected.