

Assignment – 6

- i. Display name, phone number of students with 'a' as the second letter in their names who read subject CS301.

select Name, PhoneNo from STUDENT2078 where Name like '_A%' and RollNo in (select RollNo from RESULT2078 where Sub_code = 'CS301');

```
SQL> select Name, PhoneNo from STUDENT2078 where Name like '_A%' and RollNo in (select RollNo from RESULT2078 where Sub_code = 'CS301');
NAME
-----
NAITIK PRASAD
SAMPRIKTA BISWAS      8877565643
```

- ii. Display the marks for all available subjects for the students who born in JUNE.

select Marks from RESULT2078 where RollNo in (select RollNo from STUDENT2078 where to_char(BirthDate, 'MM') = '06');

```
SQL> select Marks from RESULT2078 where RollNo in (select RollNo from STUDENT2078 where to_char(BirthDate, 'MM') = '06');
no rows selected
```

- iii. Show the student details of 5th semester Computer science and engineering Department.

select * from STUDENT2078 where Semester = 'SEM5' and DeptCode in (select DeptCode from DEPARTMENT2078 where DeptName = 'Computer Science and Engineering');

```
SQL> SELECT * FROM STUDENT2076 WHERE Semester='SEM5' AND DeptCode IN (SELECT DeptCode FROM DEPARTMENT2076 WHERE DeptName='Computer Science and Engineering');
ROLLNO NAME          ADDRESS          PHONENO  YEAROFADM DEPT SEME BIRTHDATE  COLLEGEPHONENO
-----
1001 ANKIT DAS        VIP Road,Kolkata 9830675221 2017 CSE SEM5 10-FEB-99 25739607
1002 MOINAK GHOSH     MG Road,Kolkata 7988822201 2015 CSE SEM5 01-MAY-98 25739607
1003 PARIMAL KUMAR    NSB Road,Birati 8699922211 2016 CSE SEM5 17-MAR-01 25739607
1011 RAHUL KHAN       Jadavpur, Kolkata 2017 CSE SEM5 07-JUL-01 25739607
```

- iv. Show the subject details of 3rd semester Computer science and engineering Department.

```
SELECT * FROM SUBJECT2078
WHERE Semester ='SEM3' AND DeptCode IN (SELECT DeptCode FROM
DEPARTMENT2078 WHERE DeptName='Computer Science and Engineering');
```

```
SQL> SELECT * FROM SUBJECT2076 WHERE Semester ='SEM3' AND DeptCode IN (SELECT DeptCode FROM DEPARTMENT2076 WHERE DeptName='Computer Science and Engineering');
```

SUBJECTC	SUBJECTNAME	DEPT	SEME	PASSMARKS
CS301	Data Structure	CSE	SEM3	40
CS302	Computer Organization	CSE	SEM3	40

v. Display the department name for which some student get more than 90.

```
SELECT DeptName FROM DEPARTMENT2078
WHERE DeptCode IN (SELECT DeptCode FROM STUDENT2078
WHERE RollNo IN (SELECT RollNo FROM RESULT2078 WHERE
Marks>90));
```

```
DEPTNAME
-----
Computer Science and Engineering
```

vi. Display the student name who reads in 5th semester and get more than 80 in any subject.

```
SELECT Name FROM STUDENT2078
WHERE Semester='SEM5' AND RollNo IN (SELECT RollNo FROM
RESULT2078 WHERE
Marks > 80);
```

```
SQL> SELECT Name FROM STUDENT2078
WHERE Semester='SEM5' AND RollNo IN (SELECT RollNo FROM RESULT2078 WHERE
Marks > 80); 2    3
```

NAME
MOINAK GHOSH
PARIMAL KUMAR

vii. Display the name of CSE student who born in 2000 and get more than 80 in CS301.

```
SELECT Name FROM STUDENT2078
WHERE DeptCode='CSE' AND EXTRACT(YEAR FROM BirthDate)=2000
```

AND

RollNo IN (SELECT RollNo FROM RESULT2078 WHERE Marks> 80);

```
SQL> SELECT Name FROM STUDENT2078
WHERE DeptCode='CSE' AND EXTRACT(YEAR FROM BirthDate)=2000 AND
RollNo IN (SELECT RollNo FROM RESULT2078 WHERE Marks> 80);
 2      3
no rows selected
```

viii. Display the department details with less than 80 students which has subject name Data Communication.

```
SELECT * FROM DEPARTMENT2078 WHERE Student_Alloted < 80 AND
DeptCode IN
(SELECT DeptCode FROM SUBJECT2078 WHERE
SUBJECTNAME='Data Communication')
```

```
SQL> SELECT * FROM DEPARTMENT2078 WHERE Student_Alloted < 80 AND DeptCode IN
(SELECT DeptCode FROM SUBJECT2078 WHERE SUBJECTNAME='Data Communication') 2 ;
no rows selected
```

ix. Display subject name, subject code of the department with allotted student less than 100.

```
SELECT SUBJECTNAME,SUBJECTCODE FROM SUBJECT2078
WHERE DEPTCODE IN (SELECT
```

```
SQL> SELECT SUBJECTNAME,SUBJECTCODE FROM SUBJECT2078 WHERE DEPTCODE IN (SELECT
DEPTCODE FROM DEPARTMENT2078 WHERE Student_Alloted < 100); 2
no rows selected
```

```
DEPTCODE FROM DEPARTMENT2078 WHERE Student_Alloted < 100);
```

x. Show Roll number, subject code and marks for CSE 3rd year students where subject name starts with D.

```
SELECT ROLLNO,SUB_CODE,MARKS FROM RESULT2078 WHERE
ROLLNO IN (SELECT
```

```
ROLLNO FROM STUDENT2078 WHERE (SEMESTER='SEM5' OR
SEMESTER='SEM6') AND
DEPTCODE='CSE') AND SUB_CODE IN (SELECT SUBJECTCODE
FROM SUBJECT2078 WHERE
SUBJECTNAME LIKE 'D%');
```

```
SQL> SELECT ROLLNO,SUB_CODE,MARKS FROM RESULT2078 WHERE ROLLNO IN (SELECT
ROLLNO FROM STUDENT2078 WHERE (SEMESTER='SEM5' OR SEMESTER='SEM6') AND
DEPTCODE='CSE') AND SUB_CODE IN (SELECT SUBJECTCODE FROM SUBJECT2078 WHERE
SUBJECTNAME LIKE 'D%'); 2 3 4
```

ROLLNO	SUB_CODE	MARKS
1001	CS501	68
1002	CS501	76
1003	CS501	91
1001	CS502	40
1002	CS502	81
1003	CS502	82

6 rows selected.

xi. Display roll number, subject and marks of students who took admission in the year 2017 and read subject CS505.

```
SELECT ROLLNO,SUB_CODE,MARKS FROM RESULT2078 WHERE
SUB_CODE='CS505' AND
ROLLNO IN (SELECT ROLLNO FROM STUDENT2078 WHERE
YEAROFADM=2017);
```

```
SQL> SELECT ROLLNO,SUB_CODE,MARKS FROM RESULT2078 WHERE SUB_CODE='CS505' AND
ROLLNO IN (SELECT ROLLNO FROM STUDENT2078 WHERE YEAROFADM=2017); 2
```

no rows selected

xii. Find the student details of CSE students whose marks are not available in result.

```
SELECT * FROM STUDENT2078 WHERE DEPTCODE='CSE' AND
ROLLNO NOT IN (SELECT
ROLLNO FROM RESULT2078);
```

```
SQL> SELECT * FROM STUDENT2078 WHERE DEPTCODE='CSE' AND ROLLNO NOT IN (SELECT
ROLLNO FROM RESULT2078); 2
```

ROLLNO	NAME	ADDRESS	PHONENO	YEAROFADM	DEPT	SEME	BIRTHDATE	COLLEGEPHONENO
2078	ADARSH KUMAR	VIP Road, Kolkata	9835087895	2022	CSE	SEM6	12-APR-02	25739607
1011	RAHUL KHAN	Jadavpur, Kolkata		2017	CSE	SEM5	07-JUL-01	25739607
1060	SHUBHAM	Sealdah, Kolkata	9833221098	2017	CSE	SEM3	09-AUG-03	25739607
1101	AMARITA DEV	CG Block, Saltlake		2019	CSE	SEM1	06-JAN-04	25739607
2076	AYUSH RAJ	VIP Road, Kolkata	9835087544	2022	CSE	SEM6	10-SEP-03	25739607

xiii. Find the subject name, subject code which is not included in result.

```
SELECT SUBJECTNAME,SUBJECTCODE FROM SUBJECT2078
WHERE
SUBJECTCODE NOT IN (SELECT DISTINCT SUB_CODE FROM
RESULT2078);
```

```
SQL> SELECT SUBJECTNAME,SUBJECTCODE FROM SUBJECT2078 WHERE
SUBJECTCODE NOT IN (SELECT DISTINCT SUB_CODE FROM RESULT2078); 2
```

SUBJECTNAME	SUBJECTC
Operating Systems	CS503
Analog Signals	EC501