

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

**Code:**

```
SELECT NAME,PHONENO FROM STUDENT
WHERE NAME LIKE '_A%' AND SEMESTER='SEM3' AND DEPTCODE IN (SELECT
DEPTCODE FROM SUBJECT WHERE SUBJECTCODE='CS301');
```

**Output:**

NAME	PHONENO
NAITIK PRASAD	
SAMPRIKTA BISWAS	8877565643

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

**Code:**

```
SELECT MARKS FROM RESULT
WHERE ROLLNO IN (SELECT ROLLNO FROM STUDENT WHERE EXTRACT(MONTH
FROM BIRTHDATE)=6);
```

**Output:**

no rows selected

iii. Show the student details of 5<sup>th</sup> semester Computer science and engineering Department.

**Code:**

```
SELECT * FROM STUDENT
WHERE SEMESTER='SEM5' AND DEPTCODE IN (SELECT DEPTCODE FROM DEPARTMENT
WHERE DEPTNAME='Computer Science and Engineering');
```

**Output:**

ROLLNO	NAME	ADDRESS	PHONENO	YEAROFADM	DEPT	SEME	BIRTHDAT	COLLEGE_PHONE_NO
1001	ANKIT DAS	VIP Road kolkata	9830675221	2017	CSE	SEM5	10-02-99	25739607
1002	MOINAK GHOSH	MG Road, Kolkata	7988822201	2015	CSE	SEM5	01-05-98	25739607
1003	PARIMAL KUMAR	NSB Road, Birati	8099922211	2016	CSE	SEM5	17-03-01	25739607
1011	RAHUL KHAN	Jadavpur, Kolkata	8910793249	2017	CSE	SEM5	07-07-01	25739607
3055	CHONK PRAMANIK	Dunlop		2021	CSE	SEM5	24-02-03	25739607

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

**Code:**

```
SELECT * FROM SUBJECT
WHERE SEMESTER ='SEM3' AND DEPTCODE IN (SELECT DEPTCODE FROM DEPARTMENT
WHERE DEPTNAME='Computer Science and Engineering');
```

**Output:**

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

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

**Code:**

```
SELECT DEPTNAME FROM DEPARTMENT
WHERE DEPTCODE IN (SELECT DEPTCODE FROM STUDENT
WHERE ROLLNO IN (SELECT ROLLNO FROM RESULT WHERE MARKS>90));
```

**Output:**

DEPTNAME
Computer Science and Engineering

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

**Code:**

```
SELECT NAME FROM STUDENT
WHERE SEMESTER='SEM5' AND ROLLNO IN (SELECT ROLLNO FROM RESULT WHERE
MARKS > 80);
```

**Output:**

NAME
MOINAK GHOSH
PARIMAL KUMAR

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

**Code:**

```
SELECT NAME FROM STUDENT  
WHERE DEPTCODE='CSE' AND EXTRACT(YEAR FROM BIRTHDATE)=2000 AND ROLLNO IN  
(SELECT ROLLNO FROM RESULT WHERE MARKS > 80);
```

**Output:**

```
no rows selected
```

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

**Code:**

```
SELECT * FROM DEPARTMENT WHERE STUDENT_ALLOTTED < 80 AND DEPTCODE IN  
(SELECT DEPTCODE FROM SUBJECT WHERE SUBJECTNAME='Data Communication');
```

**Output:**

```
no rows selected
```

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

**Code:**

```
SELECT SUBJECTNAME,SUBJECTCODE FROM SUBJECT WHERE DEPTCODE IN (SELECT  
DEPTCODE FROM DEPARTMENT WHERE STUDENT_ALLOTTED < 100);
```

**Output:**

```
no rows selected
```

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

**Code:**

```
SELECT ROLLNO,SUB_CODE,MARKS FROM RESULT WHERE ROLLNO IN (SELECT ROLLNO
FROM STUDENT WHERE (SEMESTER='SEM5' OR SEMESTER='SEM6') AND
DEPTCODE='CSE') AND SUB_CODE IN (SELECT SUBJECTCODE FROM SUBJECT WHERE
SUBJECTNAME LIKE 'D%');
```

**Output:**

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.

**Code:**

```
SELECT ROLLNO,SUB_CODE,MARKS FROM RESULT WHERE SUB_CODE='CS50' AND
ROLLNO IN (SELECT ROLLNO FROM STUDENT WHERE YEAROFADM=2017);
```

**Output:**

no rows selected

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

**Code:**

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

**Output:**

ROLLNO	NAME	ADDRESS	PHONENO	YEAROFADM	DEPT	SEME	BIRTHDAT	COLLEGE_PHONE_NO
1011	RAHUL KHAN	Jadavpur, Kolkata	8910793249	2017	CSE	SEM5	07-07-01	25739607
1060	SHUBHAM	Sealdah, Kolkata	9833221098	2017	CSE	SEM3	09-08-03	25739607
1101	AMARITA DEV	Gariahat, Kolkata		2019	CSE	SEM1	06-01-04	25739607
3055	CHONK PRAMANIK	Dunlop		2021	CSE	SEM5	24-02-03	25739607

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

**Code:**

```
SELECT SUBJECTNAME,SUBJECTCODE FROM SUBJECT WHERE  
SUBJECTCODE NOT IN (SELECT DISTINCT SUB_CODE FROM RESULT);
```

**Output:**

```
no rows selected
```