

i. Find the names of subjects for students of CSE 5<sup>th</sup> semester.

Select SubjectName from SUBJECT2078 where Semester = 'SEM5' and DeptCode = 'CSE';

```
SQL> select SubjectName from SUBJECT2078 where Semester = 'SEM5' and DeptCode = 'CSE';

SUBJECTNAME
-----
Discrete Mathematics
Data Communication
Operating Systems
```

ii. Find the roll numbers who got marks between 61 to 70 in CS501.

select RollNo from RESULT2078 where Marks >= 61 and Marks <= 70 and Sub\_code = 'CS501';

```
SQL> select RollNo from RESULT2078 where Marks >= 61 and Marks <= 70 and Sub_code = 'CS501';

ROLLNO
-----
1001
```

iii. Change the address of the student whose roll number is given.

Update STUDENT2078 set Address = 'Kaikhali, kolkata' where RollNo = 2101;

```
SQL> Update STUDENT2078 set Address = 'Kaikhali, kolkata' where RollNo = 2101;

1 row updated.

Commit complete.
SQL> select * from STUDENT2078 WHERE RollNo = 2101;

ROLLNO NAME                ADDRESS                PHONENO  YEAROFADM  DEPT  SEME  BIRTHDATE
-----
2101 ASHISH KUMAR          Kaikhali, kolkata      6544332121      2017  ECE   SEM5  17-SEP-01
```

iv. Increase the total number of student allocation of IT to 75.

Update DEPARTMENT2078 set Student\_alloted = 75 where DeptCode = 'IT';

```
SQL> Update DEPARTMENT2078 set Student_alloted = 75 where DeptCode = 'IT';

1 row updated.

Commit complete.
SQL> select * from DEPARTMENT2078 where DeptCode = 'IT';

DEPT DEPTNAME                STUDENT_ALLOTED
-----
IT   Information Technology      75
```

v. Increase the total number of student allocation of CSE by 15.

Update DEPARTMENT2078 set Student\_alloted = Student\_alloted + 15 where DeptCode = 'CSE';

```
SQL> Update DEPARTMENT2078 set Student_alloted = Student_alloted + 15 where DeptCode = 'CSE';

1 row updated.

Commit complete.
SQL> select * from DEPARTMENT2078 where DeptCode = 'CSE';

DEPT DEPTNAME                                STUDENT_ALLOTED
-----
CSE   Computer Science and Engineering          135

SQL>
```

vi. Increase the marks of all students of subject CS302 by 5.

update RESULT2078 set Marks = Marks + 5 where Sub\_code = 'CS302';

```
SQL> update RESULT2078 set Marks = Marks + 5 where Sub_code = 'CS302';

3 rows updated.

Commit complete.
SQL> select * from RESULT2078 where Sub_code = 'CS302';

ROLLNO SUB_CODE MARKS PASSMARKS
-----
1023 CS302      80      40
1029 CS302      76      40
1500 CS302      40      40
```

vii. Add a default phone number to all CSE 5<sup>th</sup> semester students who do not have phone number.

update STUDENT2078 set PhoneNo = 1234567890 where PhoneNo is null and DeptCode = 'CSE' and Semester = 'SEM5';

```
SQL> update STUDENT2078 set PhoneNo = 1234567890 where PhoneNo is null and DeptCode = 'CSE' and Semester = 'SEM5';

1 row updated.

Commit complete.
SQL> Select * from STUDENT2078 where DeptCode = 'CSE' and Semester = 'SEM5';

ROLLNO NAME                ADDRESS                PHONENO  YEAROFADM DEPT SEME BIRTHDATE
-----
1001 ANKIT DAS             VIP Road,Kolkata      9830675221 2017 CSE SEM5 10-FEB-99
1002 MOINAK GHOSH         MG Road,Kolkata       7988822201 2015 CSE SEM5 01-MAY-98
1003 PARIMAL KUMAR        NSB Road,Birati       8099922211 2016 CSE SEM5 17-MAR-01
1011 RAHUL KHAN           Jadavpur, Kolkata     1234567890 2017 CSE SEM5 07-JUL-01
```

viii. Display the rows from RESULT where a student failed to obtain pass marks.

select \* from RESULT2078 where Marks < PassMarks;

```
SQL> select * from RESULT2078 where Marks < PassMarks;

  ROLLNO SUB_CODE   MARKS  PASSMARKS
-----
    1001  CS502        38         40
```

ix. Add 2 marks to the students who failed for maximum 2 marks to any the subjects with CS code.

update RESULT2078 set Marks = Marks+2 where Marks<PassMarks;

```
SQL> update RESULT2078 set Marks = Marks+2 where Marks<PassMarks;

1 row updated.
```

x. Delete the student with given roll number from student table.

Delete from STUDENT2078 where RollNo = 3005;

```
SQL> Delete from STUDENT2078 where RollNo = 3005;

1 row deleted.

Commit complete.
```

xi. Display the students name, deptcode, semester who admitted before 2017 in alphabetical order of name.

select Name , DeptCode, Semester from STUDENT2078 where YearOfAdm < 2017 order by Name ASC;

```
Commit complete.
SQL> select Name , DeptCode, Semester from STUDENT2078 where YearOfAdm < 2017 order by Name ASC;

NAME                DEPT SEME
-----
MOINAK GHOSH        CSE  SEM5
NIKHIL SINGH         ECE  SEM5
PARIMAL KUMAR        CSE  SEM5
```

xii. Display the roll number, subject code who got more than 90 in either CS301 or CS302.

select RollNO , Sub\_code from RESULT2078 where Marks>90 and (Sub\_code = 'CS301' or Sub\_code = 'CS302');

```
SQL> select RollNO , Sub_code from RESULT2078 where Marks>90 and (Sub_code = 'CS301' or Sub_code = 'CS302');

ROLLNO SUB_CODE
-----
1023 CS301
```

xiii. Insert two students in students table.

insert into STUDENT2078 values(2076, 'AYUSH RAJ', 'VIP Road, Kolkata', 9835087544, 2022 , 'CSE' , 'SEM6' , to\_date('10-09-2003','DD-MM-YYYY'));

insert into STUDENT2078 values(2078, 'ADARSH KUMAR', 'VIP Road, Kolkata', 9835087895, 2022 , 'CSE' , 'SEM6' , to\_date('12-04-2002','DD-MM-YYYY'));

```
SQL> insert into STUDENT2078 values(2076, 'AYUSH RAJ', 'VIP Road, Kolkata', 9835087544, 2022 , 'CSE' , 'SEM6' , to_date('10-09-2003','DD-MM-YYYY'));
1 row created.
Commit complete.
SQL> insert into STUDENT2078 values(2078, 'ADARSH KUMAR', 'VIP Road, Kolkata', 9835087895, 2022 , 'CSE' , 'SEM6' , to_date('12-04-2002','DD-MM-YYYY'));
1 row created.
Commit complete.
SQL>
```

xiv. Delete phone number of a given student.

update STUDENT2078 set PhoneNo = null where PhoneNo = 1234567890;

```
SQL> update STUDENT2078 set PhoneNo = null where PhoneNo = 1234567890;

1 row updated.

Commit complete.
```

xv. Display the roll number, subject code who got more than 40 form pass marks in either CS501 or CS502.

Select RollNo, Sub\_code from RESULT2078 where Marks > PassMarks + 40 and (Sub\_code = 'CS501' or Sub\_code = 'CS502');

```
SQL> Select RollNo, Sub_code from RESULT2078 where Marks > PassMarks + 40 and (Sub_code = 'CS501' or Sub_code = 'CS502');

ROLLNO SUB_CODE
-----
1003 CS501
1002 CS502
1003 CS502
```