SET 3

STUDENT (rollno, name, class, birthdate)

COURSE (courseno, coursename, max_marks, pass_marks)

SC (rollno, courseno, marks)

- 1. Create the above three tables along with key constraints.
- 2. Write an Insert script for insertion of rows with substitution variables and insert appropriate data.

```
create table student(
                  rollno int(3) primary key ,
                  sname varchar(45),
                  class varchar(23),
                  birthday date
             );
insert into student values(5,'hjh','9 std','2018-12-9');
     Field
               Type
                           Null
                                        Default
                                  Key
                                                 Extra
                                       NULL
     rollno
              int(3)
                                 PRI
                           NO
                                       NULL
     sname
              varchar(45)
                           YES
                                       NULL
     dass
              varchar(23)
                           YES
                                       NULL
     birthday
              date
                           YES
```

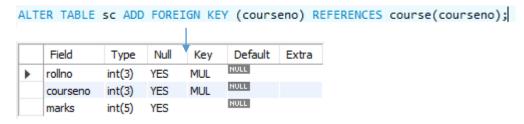
```
create table course(
                       courseno int(3) primary key,
                       cname varchar(45),
                       maxmarks int(3),
                       minmarks int(3)
                  );
insert into course values(1, 'ala',99,54);
                                         Default
     Field
                Type
                            Null
                                   Key
                                                  Extra
                                         NULL
               int(3)
                           NO
                                  PRI
    courseno
                                         NULL
               varchar(45)
    cname
                           YES
                                         NULL
    maxmarks
               int(3)
                            YES
                                         NULL
    minmarks
               int(3)
                           YES
```

```
create table sc(
                   rollno int(3),
                  courseno int(3),
                  marks int(5),
                  foreign key(rollno) references student(rollno)
              );
    Field
               Type
                     Null
                                   Default
                                            Extra
                             Key
                                  NULL
    rollno
              int(3)
                     YES
                            MUL
                                  NULL
              int(3)
                     YES
    courseno
                                  NULL
    marks
              int(5)
                     YES
```

3. Add a constraint that the marks entered should strictly be between 0 and 100.

```
ALTER TABLE sc ADD CHECK (marks>0 or marks<=100);
```

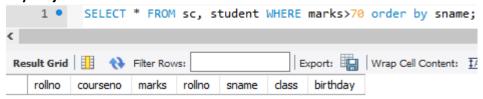
4. While creating SC table, composite key constraint was forgotten. Add the composite key now.



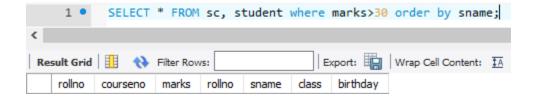
5. Display details of student who takes 'Database Management System' course.

```
SELECT
FROM student st, sc s
WHERE courseno :
SELECT courseno
FROM course
WHERE coursename = 'dbms' )
LIMIT 0 , 30
                          birthdate
rollno
         name
                 class
                                      rollno
                                             courseno
                                                         marks
                         1995-09-06
                                             202
  101
        paresh
                                        101
                                                         85
                 sem3
        kalpesh
                                             202
  102
                 sem3
                         1995-09-07
                                        101
                                                         85
                                             202
  101
        paresh
                         1995-09-06
                                        102
                                                         85
                 sem3
                         1995-09-07
                                             202
  102
        kalpesh
                 sem3
                                        102
                                                         85
```

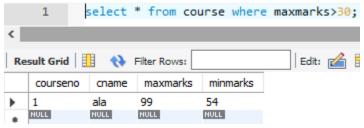
6. Display the names of students who have scored more than 70% in Computer Networks and have not failed in any subject.



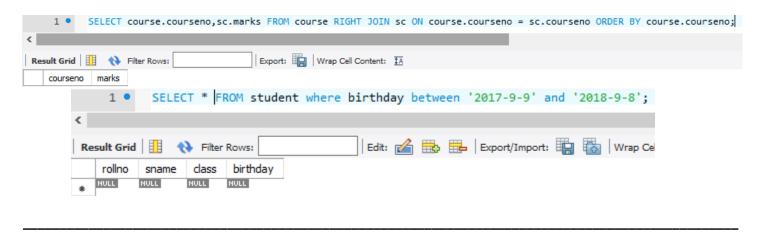
7. Display the average marks obtained by each student.



8. Select all courses where passing marks are more than 30% of average maximum mark.



9. Display details of students who are born in 1980 or 1982. 10. Create a view that displays student course no and its corresponding marks.



10. Create a view that displays student course no and its corresponding marks.