DATABASE MANAGEMENT SYSTEM ASSIGNMENT 5

Submitted by:

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3NC3

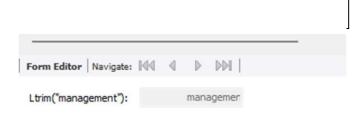
Q1) Use the following functions:

2. cancat(char1,char2): use assignment5; SELECT concat("management", "systems"); Prabhnoor Singh 102115059 Form Editor Navigate: | 44 | | DDI Concat("management", "systems"): managementsystems 3. instr(string,char): use assignment5; SELECT instr("management", 'a'); **Prabhnoor Singh** 102115059 Form Editor Navigate: Instr("management", 'a'): 2 4. Length(n): use assignment5; SELECT length("managementsystem"); **Prabhnoor Singh** 102115059 Length("managementsystem"): 16

5. lpad(char1 ,n [,char2]):

6. ltrim(string [,char(s)]):

```
1 • use assignment5;
2 • select ltrim(" management");
```



7. rpad(char1,n [,char2]):

```
use assignment5;
select rpad('m',3,'s');
```

8. rtrim(string [,char(s)])

9. replace(char ,search_string , replacement_string):

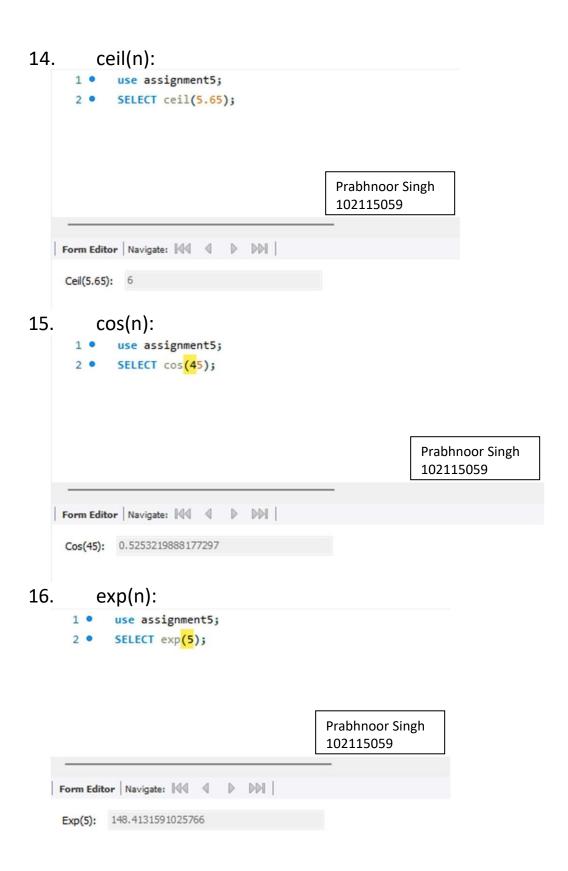
```
use assignment5;
SELECT REPLACE('Hello, World!', 'World', 'Universe');
```

10. substr(string, position, substring length):

```
use assignment5;
SELECT SUBSTR("HELLO WORLD!",4,8);
```

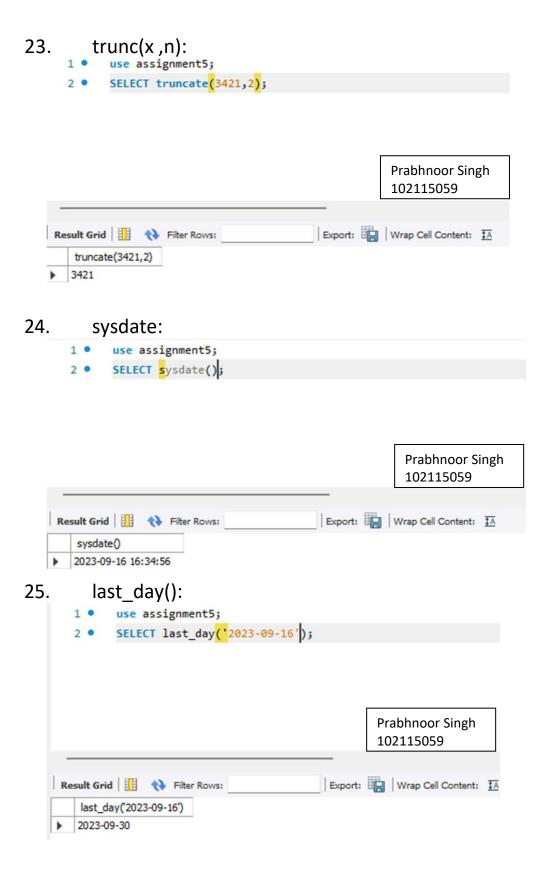


```
lower(string):
11.
      use assignment5;
      2 • SELECT lower("HELLO WORLD!");
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                                          102115059
    Form Editor Navigate:
    Lower("HELLO WORLD!"): hello world!
12.
         upper(string):
      1 • use assignment5;
      2 • SELECT upper("hello world!");
                                            Prabhnoor Singh
                                            102115059
    Form Editor Navigate:
    Upper("hello world!"): HELLO WORLD!
13.
         abs(n):
      1 • use assignment5;
      2 • SELECT abs(-9);
                                     Prabhnoor Singh
                                     102115059
   Form Editor Navigate: |44 4 | DD
    Abs(-9): 9
```



```
17. floor(n):
         use assignment5;
     2 • SELECT floor(5.75);
                                   Prabhnoor Singh
                                   102115059
   Form Editor Navigate:
    Floor(5.75): 5
18.
        mod(m,n):
     1 • use assignment5;
     2 • SELECT mod(3,2);
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                                 102115059
   Form Editor Navigate:
   Mod(3,2): 1
     power(x ,y):
19.
     1 • use assignment5;
          SELECT power(2,3);
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                                  102115059
   Power(2,3): 8
```

```
20.
       round(x [,y]):
          use assignment5;
     2 •
          SELECT round(3,2);
                                 Prabhnoor Singh
                                 102115059
   Round(3,2): 3
21.
       sign(n):
    use assignment5;
    2 • SELECT sign(54);
                                  Prabhnoor Singh
                                  102115059
   Sign(54): 1
22.
       sqrt(n);
     use assignment5;
     2 .
         SELECT sqrt(64);
                                 Prabhnoor Singh
                                 102115059
   Form Editor Navigate:
   Sqrt(64): 8
```

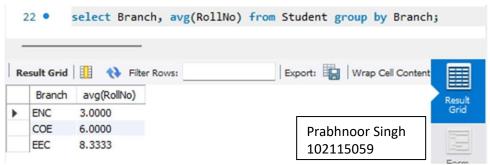


26. greatest(expr): use assignment5; 2 • SELECT greatest(1021,5063); Prabhnoor Singh 102115059 Export: Wrap Cell Content: 1/4 greatest(1021,5063) ▶ 5063 27. least(expr): use assignment5; SELECT least(1021,5063); Prabhnoor Singh 102115059 Export: Wrap Cell Content: IA least(1021,5063) ▶ 1021

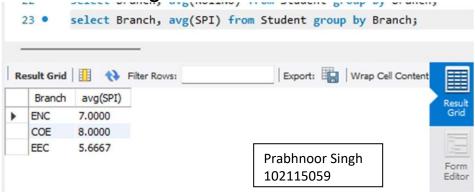
```
Q2:
```

```
1 .
       use assignment5;
 2 • ⊖ create table Student(
 3
           RollNo int,
 4
           FName varchar(255),
           MName varchar(255),
 5
           LName varchar(255),
 6
           Branch varchar(255),
 7
           BranchID int,
 8
           SPI int
                                           Prabhnoor Singh
 9
                                           102115059
10
11 •
       insert into Student values(1, 'A', 'B', 'C', 'ENC', 15,9);
       insert into Student values(2,'D','E','F','ENC',15,8);
12 •
       insert into Student values(3,'G','H','I','COE',10,7);
13 •
       insert into Student values(4,'J','K','L','ENC',15,7);
14 •
15 •
       insert into Student values(5,'M','N','0','ENC',15,4);
16 •
       insert into Student values(6,'P','Q','R','COE',10,9);
17 •
       insert into Student values(7,'S','T','U','EEC',5,6);
       insert into Student values(8,'V','W','X','EEC',5,3);
18 •
       insert into Student values(9,'Y','Z','A','COE',10,8);
19 •
       insert into Student values(10, 'B', 'C', 'D', 'EEC', 5,8);
20 •
21
```

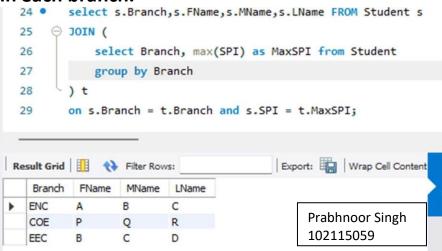
1. Find the average number of students enrolled in each branch.



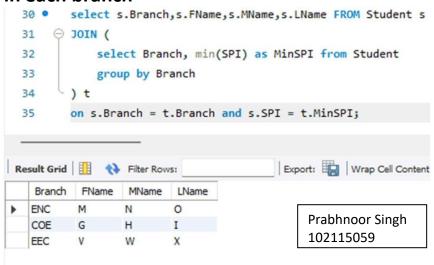
2. Find the average Grade of students enrolled in each branch



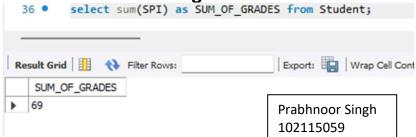
3. Find the name of the student who got highest Grade enrolled in each branch.



4. Find the name of the student who got lowest Grade enrolled in each branch



5. Find the sum of all grades of the table students.



6. Find the name of the students having grade greater than 8.0



7. Find the name of the students having grade less than 6.0.

