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Instructions: -
This exam consists of 2 sections.
All questions are compulsory. Total time for this test is 90 minutes.
Connect to MySQL database with your respective username and password.
Section I
                                            (30 marks)
1. Create table DEPT with the following structure:-
DEPTNO
               int
DNAME
                varchar (15)
LOC
               varchar(10)
Insert the following rows into the DEPT table:-
10 ACCOUNTING NAGPUR
20 RESEARCH
30 SALES
                   DELHI
               KOLKATA
40 OPERATIONS MUMBAI
Answer:
Create table DEPT(Deptno int,DNAME varchar(15),LOC Varchar(10));
insert into DEPT values(10, 'ACCOUNTING', 'NAGPUR');
insert into DEPT values(20, 'RESEARCH', 'DELHI');
insert into DEPT values(30, 'SALES', 'KOLKATA');
insert into DEPT values(40, 'OPERATIONS', 'MUMBAI');
mysql> select * from dept;
+-----
| Deptno | DNAME | LOC
     ____+
     10 | ACCOUNTING | NAGPUR |
      20 | RESEARCH | DELHI
      30 | SALES | KOLKATA |
     40 | OPERATIONS | MUMBAI |
Create table EMP with the following structure:-
EMPNO
      int
ENAME
           varchar(10)
JOB
           varchar(9)
HIREDATE
             date
          float
SAL
COMM
           float
DEPTNO
           int
Insert the following rows into the EMP table:-
7839
       KRISHNA MANAGER 1991-11-17
                                       5000
                                                NULL
7698
        BHAVANA
                   CLERK 1981-05-01
                                        2850
                                                NULL
       CHETAN
7782
                  MANAGER 1981-06-09
                                       2450
                                                NULL
                                                        10
                                       2975
        JAMILA
7566
                   CLERK 1981-04-02
                                                NULL 20
                    SALESMAN 1981-09-28 1250
7654
       MAHENDRA
                                                        1400
                       SALESMAN
7499
                                   1981-02-20 1600
       AJIT
Solution:
CREATE table EMP(EMPNO int, ENAME varchar(10), JOB varchar(9), HIREDATE date, SAL float, COMM
float,DEPTNO int);
insert into EMP values(7839, 'KRISHNA', 'MANAGER', '1991-11-17', 5000, NULL, 10);
insert into EMP values(7698,'BHAVANA','CLERK','1981-05-01',2850,NULL,30);
insert into EMP values(7782, 'CHETAN', 'MANAGER', '1981-06-09', 2450, NULL, 10);
insert into EMP values(7566, 'JAMILA ', 'CLERK', '1981-04-02', 2975, NULL, 20);
insert into EMP values(7654, 'MAHENDRA', 'SALESMAN', '1981-09-28', 1250, 1400, 30);
insert into EMP values(7499, 'AJIT', 'SALESMAN', '1981-02-20', 1600, 300, 30);
select * from EMP;
mysql> select * from EMP;
```

EMPNO	ENAME	JOB	HIREDATE	SAL	COMM	DEPTNO
7839 7698 7782 7566 7654	KRISHNA BHAVANA CHETAN JAMILA MAHENDRA AJIT	MANAGER   CLERK   MANAGER   CLERK   SALESMAN   SALESMAN	1991-11-17 1981-05-01 1981-06-09 1981-04-02 1981-09-28 1981-02-20	5000   2850   2450   2975   1250   1600	NULL     NULL     NULL     NULL     1400	10   30   10   20   30   30

\_\_\_\_\_\_

3. Display the JOB column with duplicate values suppressed.
mysql> select distinct Job from emp;
+-----+

Write SELECT statements to achieve the following:-

4. Display the Enames and the corresponding Dnames. mysql> Select ename, dname from emp e, dept d where d.deptno=e.deptno;

```
+----+
| ename | dname |
+-----+
| KRISHNA | ACCOUNTING |
| BHAVANA | SALES |
| CHETAN | ACCOUNTING |
| JAMILA | RESEARCH |
| MAHENDRA | SALES |
| AJIT | SALES |
```

5. Show the salaries of all employees rounding it to the nearest 1000. select round()

mysql> select Round(sal,-3) from emp;

```
| Round(sal,-3) |
| 5000 |
| 3000 |
| 2000 |
| 3000 |
| 1000 |
```

6. Find the names of all employees who do not receive any commission. mysql> select ename from emp where comm is null;

```
+----+
| ename |
+----+
| KRISHNA |
| BHAVANA |
| CHETAN |
| JAMILA |
```

7. Display the names of all employees right-aligning them to 15 characters. mysql> select rpad(ename, 15, '\*') from emp;

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```
| JAMILA******
| MAHENDRA*****
| AJIT*******
8. Display the remainder of 9 divided by 5.
mysql> select Mod(9,5) from dual;
| Mod(9,5) |
+----+
 4 |
9. Display the minimum SAL jobwise.
mysql> select job,min(sal) from emp group by deptno;
+----+
| job | min(sal) | | | |
| MANAGER | 2450 |
| CLERK | 1250 | | CLERK | 2975 |
10. Display the DNAME and the corresponding ENAME.
 All rows of DEPT table are to be displayed even if a particular DEPTNO has no employees.
mysql> (select dept.deptno,dept.dname,loc,ename from dept Right outer join emp on
(dept.deptno=emp.deptno))
        UNION
      (select dept.deptno,dept.dname,loc,ename from dept left outer join emp on
      (dept.deptno=emp.deptno));
+----+
| deptno | dname | loc | ename |
     ---+----+
     10 | ACCOUNTING | NAGPUR | KRISHNA |
     30 | SALES | KOLKATA | BHAVANA |
     10 | ACCOUNTING | NAGPUR | CHETAN
     20 | RESEARCH | DELHI | JAMILA
     30 | SALES | KOLKATA | MAHENDRA | 30 | SALES | KOLKATA | AJIT |
     40 | OPERATIONS | MUMBAI | NULL
(select * from dept) union (select ename from emp);
Section II
                                        (10 marks)
1. Write a stored procedure by the name of Simp intr to calculate the amount of interest on
a bank account. The formulae are:-
   Intr = p*t*r/100
   Amt = p + Intr
   where:-
   Intr is the total interest earned.
   p is the principal, t is the number of years the money is earning interest, and is the
   rate of interest.
   Your stored procedure should accept the values of p, t and r as parameters and insert
   the Interest and
   Total amount into a suitable TEMPP output table. Calling program for the stored
   procedure need not be written.
______
   Write a stored function by the name of Days between.
   The stored function should accept 'D1' and 'D2' as date parameters.
   The stored function should return the number of days between the two dates.
```

Calling program for the stored function need not be written.