

**Dharmsinh Desai University**

**Department of MCA**

**Semester -1**

**Database Management System**

**Term work**

**Submitted by**

**Roll No :- MA028**

**Name :- Nikhil .R. Lathiya**

**1 perform the following using MySQL**

**Create following tables choose appropriate datatype. And insert appropriate**

**records according to your choice.**

**Emp (Eid, Ename, salary,city,depname) Eid is primary key**

**Leave (leaveid, leavetype) leavetype must be in CL or DL or ML,**

**Leaveid is primary key**

**Emp\_leave(Eid,leaveid,leavedate) Primarykey(Eid,leaveid) ,**

**Eid is foreign key from EMP table**

**Leavid is foreign key form Leave table.**

**Table 1 :-**

```
create table Emp (  
    Eid int Primary key,  
    Ename varchar(50),  
    salary int,  
    city varchar(60),  
    depname varchar(60)  
);
```

insert into Emp values

```
(1 , 'Ram' , 15000 , 'Nadiad' , 'sales'),  
(2 , 'Dinesh' , 5000 , 'Gdm' , 'Account'),  
(3 , 'Devasish' , 10000 , 'Gdm' , 'sales'),  
(4 , 'Nikhil' , 12000 , 'Anjar' , 'sales'),  
(5 , 'Ayush' , 20000 , 'Bhuj' , 'Finance'),  
(6 , 'Aditya' , 13000 , 'Surat' , 'Finance');  
(7 , 'Rakesh' , 5000 , 'Surat' , 'Acount');
```

**Table 2 :-**

```
create table Leave_1(  
    leaveid int primary key,  
    leavetype ENUM('CL','DL' , 'ML') not null  
);
```

insert into Leave\_1 values

```
(101 , 'CL'),  
(102 , 'CL'),  
(103 , 'DL'),  
(104 , 'DL'),
```

```
(105 , 'ML'),  
(106 , 'ML'),  
(107 , 'ML'),  
(108 , 'CL');
```

**Table 3 :-**

```
create table Emp_leave(  
    Eid int,  
    leaveid int,  
    leavedate date,  
    foreign key (Eid) references Emp(Eid),  
    foreign key (leaveid) references Leave_1(leaveid),  
    primary key (leaveid,Eid)  
);
```

```
insert into Emp_leave values  
(1, 101, '2018-02-12'),  
(2, 102, '2017-04-21'),  
(3, 103, '2020-05-26'),  
(7 , 107 , '2020-12-31'),
```

(7 , 108 , '2020-10-15');

(4 , 104 , '2023-11-22');

### 1. Display all the Employee whose name start with 'D'

**Query :-** select \* from Emp where Ename like 'D%';

**Output :-**

Eid	Ename	Salary	City	Depname
2	Dinesh	5000	Gdm	Account
3	Devasish	10000	Gdm	Sales

### 2. Display all the Employee details whose salary between 10000 to 15000.

**Query :-** select \* from Emp where salary between 10000 and 15000 ;

**Output :-**

Eid	Ename	Salary	City	Depname
1	Ram	15000	Nadiad	Sales
3	Devasish	10000	Gdm	Sales
4	Nikhil	12000	Anjar	Sales
6	Aditya	13000	Surat	Finance

**3. Display all the Employee name who has taken leave type CL.**

**Query :-** select Ename from emp where eid in  
(select eid from Emp\_leave where leaveid in  
(select leaveid from Leave\_1 where leavetype='CL'));

**Output :-**

Ename
Ram
Dinesh

#### 4. Display Eid,,Leaveid which are taken before 12-02-2019.

**Query :-** select eid, leaveid from emp\_leave where  
leavedate < '2019-02-12';

**Output :-**

Eid	Leaveid
1	101
2	102

#### 5 Display of department name and total of salary of each department's employee.

**Query :-** select depname, SUM(salary) from emp group by depname;

**Output :-**

depname	SUM(salary)
Sales	37000
Account	5000
Finance	33000

## 6. Display all the leave type taken from employee rakesh.

**Query :-** select leavetype from leave\_1 where leaveid in (  
select leaveid from emp\_leave where eid in (  
select eid from emp where ename='Rakesh'  
));

**Output :-**

Leavetype
ML
CL

## 7 Display all leavedate of leave type DL.

**Query :-** select leavedate from emp\_leave where leaveid in (  
select leaveid from leave\_1 where leavetype = 'DL');



**Output :-**

<b>Leavedate</b>
2020-05-26
2023-11-22

**8 Update the city of employee “rakesh”.**

**Query :-** update emp set city='Goa' where ename='Rakesh';

**Output :-**

<b>Eid</b>	<b>Ename</b>	<b>Salary</b>	<b>City</b>	<b>Depname</b>
7	Rakesh	5000	Goa	Account

**9. Display leavetype, and number of leaves taken by employee of each leave type.**

**Query :-** select leavetype , count(leaveid) from leave\_1 group by leavetype;

**Output :-**

Leavetype	Count(leaveid)
CL	3
DL	2
ML	3

**10. Create a stored procedure which pass the department name as arguments and findout display all eid,leaveid,leavedate of all employee of given departments. Also calculate maxsalary . and pass it as OUT variable.**

delimiter \$\$

create procedure display(IN dname varchar(60) , OUT maxSal  
int)

begin

select \* from Emp\_leave where eid in (  
select eid from emp where depname= dname  
);

select max(salary) into maxSal from emp where depname=  
dname;

end \$\$

delimiter ;

call display('sales' , @maxSal);

**Output :-**

<b>Eid</b>	<b>Leaveid</b>	<b>Leavedate</b>
1	101	2018-02-12
3	103	2020-05-26
4	104	2023-11-22

**select @maxSal;**

<b>@maxSal</b>
15000

**11. Create a function disp() which pass the leaveid as argument and display all the employee name who has not taken any leave which is passed as an argument**

delimiter \$\$

create function display(leave\_id int) returns LONGTEXT  
deterministic

begin

declare employee\_name LONGTEXT;

select GROUP\_CONCAT(ename) into employee\_name  
from emp where eid in (select eid from emp\_leave  
where leaveid not in(select leaveid from leave\_1 where  
leaveid = leave\_id));

return employee\_name;

end \$\$

delimiter ;

select display(102);

**Output :-**

<b>Display(102)</b>
Ram, Devasish, Nikhil, Rakesh

**12. Add the bonus field with appropriate datatype. Update the bonus based on following condition**

**If salary less than 5000 bonus is 5%**

**If salary between 5001 – 10000 bonus is 6%**

**Else bonus is 7%**

**Query :-** alter table emp add bonus int;

update emp set bonus = case

WHEN salary < 5000 THEN salary \* 0.05

WHEN salary BETWEEN 5001 AND 10000 THEN salary \* 0.06

ELSE salary \* 0.07

END;

**Output :-**

Eid	Ename	Salary	City	Depname	bonus
1	Ram	15000	Nadiad	sales	1050
2	Dinesh	5000	Gdm	Account	350
3	Devasish	10000	Gdm	Sales	600
4	Nikhil	12000	Anjar	Sales	840
5	Ayush	20000	Bhuj	Finance	1400
6	Aditya	13000	Surat	Finance	910
7	Rakesh	5000	Goa	Account	350

