

Create table emp with following fields Empno, Job, Salary, Ename, Deptno, Experience. Perform following queries.

1. Add a column Experience to emp table.
2. Modify column width of Job field.
3. Drop column Experience from emp.

Insert values into emp and perform following queries.

4. List records in emp table order by Salary in ascending order.
5. Display only those employees whose Deptno is 29.
6. Display Deptno from emp avoiding duplicates.
7. Display all employee whose job title starts with M.
8. Find all employees who work in same job as Arjun.
9. Find total no of employees in emp table.
10. Find minimum and maximum Salary of employees.

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1. Add new column

```
1 Create table emp(Empno int(20),Job varchar(30),Salary bigint(50),Ename varchar(50),Deptno int(20));
2 alter table emp add Experience int(30);
3 describe emp;
4
```

Field	Type	Null	Key	Default	Extra
Empno	int	YES		NULL	
Job	varchar(30)		YES		NULL
Salary	bigint	YES		NULL	
Ename	varchar(50)		YES		NULL
Deptno	int	YES		NULL	
Experience	int		YES		NULL

2. Modify a column

```
1 Create table emp(Empno int(20),Job varchar(30),Salary bigint(50),Ename varchar(50),Deptno int(20));
2 alter table emp add Experience int(30);
3 alter table emp modify Job varchar(60);
4 describe emp;
5
```

Field	Type	Null	Key	Default	Extra
Empno	int	YES		NULL	
Job	varchar(60)		YES		NULL
Salary	bigint	YES		NULL	
Ename	varchar(50)		YES		NULL
Deptno	int	YES		NULL	
Experience	int		YES		NULL

### 3. Drop column

```
1 Create table emp(Empno int(20),Job varchar(30),Salary bigint(50),Ename varchar(50),Deptno int(20));
2 alter table emp add Experience int(30);
3 alter table emp modify Job varchar(60);
4 alter table emp drop column Experience;
5 describe emp;
6
```

Field	Type	Null	Key	Default	Extra
Empno	int	YES		NULL	
Job	varchar(60)		YES		NULL
Salary	bigint	YES		NULL	
Ename	varchar(50)		YES		NULL
Deptno	int	YES		NULL	

### 4. Order by salary

```
6 Insert into emp(Empno,Job,Salary,Ename,Deptno)values(10,'Manager',10000,'Arjun',29);
7 Insert into emp(Empno,Job,Salary,Ename,Deptno)values(20,'Supervisor',15000,'Nazar',31);
8 Insert into emp(Empno,Job,Salary,Ename,Deptno)values(30,'CEO',30000,'Jabbar',15);
9 Insert into emp(Empno,Job,Salary,Ename,Deptno)values(40,'Mechanic',1000,'Mathew',43);
10 Insert into emp(Empno,Job,Salary,Ename,Deptno)values(50,'Manager',10000,'Anil',29);
11 Insert into emp(Empno,Job,Salary,Ename,Deptno)values(60,'Operator',12000,'Raju',29);
12 select * from emp order by Salary asc;
```

Empno	Job	Salary	Ename	Deptno
40	Mechanic	1000	Mathew	43
10	Manager	10000	Arjun	29
50	Manager	10000	Anil	29
60	Operator	12000	Raju	29
20	Supervisor	15000	Nazar	31
30	CEO	30000	Jabbar	15

### 5. Deptno 29

```
6 Insert into emp(Empno,Job,Salary,Ename,Deptno)values(10,'Manager',10000,'Arjun',29);
7 Insert into emp(Empno,Job,Salary,Ename,Deptno)values(20,'Supervisor',15000,'Nazar',31);
8 Insert into emp(Empno,Job,Salary,Ename,Deptno)values(30,'CEO',30000,'Jabbar',15);
9 Insert into emp(Empno,Job,Salary,Ename,Deptno)values(40,'Mechanic',1000,'Mathew',43);
10 Insert into emp(Empno,Job,Salary,Ename,Deptno)values(50,'Manager',10000,'Anil',29);
11 Insert into emp(Empno,Job,Salary,Ename,Deptno)values(60,'Operator',12000,'Raju',29);
12 select Ename from emp where Deptno=29;
```

Ename  
Arjun  
Anil  
Raju

### 6. Display Deptno

```
6 Insert into emp(Empno,Job,Salary,Ename,Deptno)values(10,'Manager',10000,'Arjun',29);
7 Insert into emp(Empno,Job,Salary,Ename,Deptno)values(20,'Supervisor',15000,'Nazar',31);
8 Insert into emp(Empno,Job,Salary,Ename,Deptno)values(30,'CEO',30000,'Jabbar',15);
9 Insert into emp(Empno,Job,Salary,Ename,Deptno)values(40,'Mechanic',1000,'Mathew',43);
10 Insert into emp(Empno,Job,Salary,Ename,Deptno)values(50,'Manager',10000,'Anil',29);
11 Insert into emp(Empno,Job,Salary,Ename,Deptno)values(60,'Operator',12000,'Raju',29);
12 select distinct Deptno from emp;
```

Deptno  
29  
31  
15  
43

#### 7. Job title starts with M

```
6 Insert into emp(Empno,Job,Salary,Ename,Deptno)values(10,'Manager',10000,'Arjun',29);
7 Insert into emp(Empno,Job,Salary,Ename,Deptno)values(20,'Supervisor',15000,'Nazar',31);
8 Insert into emp(Empno,Job,Salary,Ename,Deptno)values(30,'CEO',30000,'Jabbar',15);
9 Insert into emp(Empno,Job,Salary,Ename,Deptno)values(40,'Mechanic',1000,'Mathew',43);
10 Insert into emp(Empno,Job,Salary,Ename,Deptno)values(50,'Manager',10000,'Anil',29);
11 Insert into emp(Empno,Job,Salary,Ename,Deptno)values(60,'Operator',12000,'Raju',29);
12 select Ename from emp where Job like 'M%';
```

Ename  
Arjun  
Mathew  
Anil

#### 8. Same job as Arjun

```
6 Insert into emp(Empno,Job,Salary,Ename,Deptno)values(10,'Manager',10000,'Arjun',29);
7 Insert into emp(Empno,Job,Salary,Ename,Deptno)values(20,'Supervisor',15000,'Nazar',31);
8 Insert into emp(Empno,Job,Salary,Ename,Deptno)values(30,'CEO',30000,'Jabbar',15);
9 Insert into emp(Empno,Job,Salary,Ename,Deptno)values(40,'Mechanic',1000,'Mathew',43);
10 Insert into emp(Empno,Job,Salary,Ename,Deptno)values(50,'Manager',10000,'Anil',29);
11 Insert into emp(Empno,Job,Salary,Ename,Deptno)values(60,'Operator',12000,'Raju',29);
12 select Ename from emp where Job=(select Job from emp where Ename='Arjun');
```

Ename  
Arjun  
Anil

#### 9. Total no of employees

```
6 Insert into emp(Empno,Job,Salary,Ename,Deptno)values(10,'Manager',10000,'Arjun',29);
7 Insert into emp(Empno,Job,Salary,Ename,Deptno)values(20,'Supervisor',15000,'Nazar',31);
8 Insert into emp(Empno,Job,Salary,Ename,Deptno)values(30,'CEO',30000,'Jabbar',15);
9 Insert into emp(Empno,Job,Salary,Ename,Deptno)values(40,'Mechanic',1000,'Mathew',43);
10 Insert into emp(Empno,Job,Salary,Ename,Deptno)values(50,'Manager',10000,'Anil',29);
11 Insert into emp(Empno,Job,Salary,Ename,Deptno)values(60,'Operator',12000,'Raju',29);
12 select count(*)from emp;
```

count(\*)  
6

## 10. Max and min Salary

```
6 Insert into emp(Empno,Job,Salary,Ename,Deptno)values(10,'Manager',10000,'Arjun',29);
7 Insert into emp(Empno,Job,Salary,Ename,Deptno)values(20,'Supervisor',15000,'Nazar',31);
8 Insert into emp(Empno,Job,Salary,Ename,Deptno)values(30,'CEO',30000,'Jabbar',15);
9 Insert into emp(Empno,Job,Salary,Ename,Deptno)values(40,'Mechanic',1000,'Mathew',43);
10 Insert into emp(Empno,Job,Salary,Ename,Deptno)values(50,'Manager',10000,'Anil',29);
11 Insert into emp(Empno,Job,Salary,Ename,Deptno)values(60,'Operator',12000,'Raju',29);
12 select Salary from emp where Salary=(select min(Salary)from emp)union select Salary from emp where Salary=(select max(Salary)from emp);
```

Salary

1000

30000