

PROGRAM -1

Create table employee with following fields.

- Empno
- Job
- Salary
- Ename
- Deptno
- Experience

Perform following queries

- (a) Add a column Experience to employee table
- (b) Modify column width of Job field.
- (c) Drop column Experience from employee.

Insert values into employee and perform following queries.

- (1) List records in employee table order by salary in ascending order.
- (2) Display only those employees whose Deptno is 29.
- (3) Display Deptno in employee avoiding duplicates.
- (4) Display all employees whose job title starts with M.
- (5) Find all employees who work in same job as Arjun.
- (6) Find total number of employee in employee table.
- (7) Find minimum and maximum salary of employees.

Source code

- create table employee(empno int,empname varchar(10),job varchar(10),salary int,deptno int);
- describe employee;

Field	Type	Null	Key	Default	Extra
empno	int(11)	YES		NULL	
empname	varchar(10)	YES		NULL	
job	varchar(10)	YES		NULL	
salary	int(11)	YES		NULL	
deptno	int(11)	YES		NULL	

(a) alter table employee add experience int;

Field	Type	Null	Key	Default	Extra
empno	int(11)	YES		NULL	
empname	varchar(10)	YES		NULL	
job	varchar(10)	YES		NULL	
salary	int(11)	YES		NULL	
deptno	int(11)	YES		NULL	
experience	int(11)	YES		NULL	

(b) alter table employee modify job varchar(20);

Field	Type	Null	Key	Default	Extra
empno	int(11)	YES		NULL	
empname	varchar(10)	YES		NULL	
job	varchar(20)	YES		NULL	
salary	int(11)	YES		NULL	
deptno	int(11)	YES		NULL	

(c) alter table employee drop column experience;

Field	Type	Null	Key	Default	Extra
empno	int(11)	YES		NULL	
empname	varchar(10)	YES		NULL	
job	varchar(20)	YES		NULL	
salary	int(11)	YES		NULL	
deptno	int(11)	YES		NULL	

➤ Insert values in to employee

```
insert into Employee(Emp_no,Emp_name,Salary,Deptno,Job)
Values(1,'Anu',25000,10,'Teacher');
```

1 row created.

```
insert into Employee(Emp_no,Emp_name,Salary,Deptno,Job)
Values(2,'Anoop',30000,11,'Manager');
```

1 row created.

```
insert into Employee(Emp_no,Emp_name,Salary,Deptno,Job)
Values(3,'Paul',20000,12,'Mechanic');
```

1 row created.

```
insert into Employee(Emp_no,Emp_name,Salary,Deptno,Job)
Values(4,'Arjun',25500,13,'Teacher');
```

1 row created.

empno	empname	job	salary	deptno
1	Anu	Teacher	25000	29
2	Anoop	Manager	30000	28
3	Paul	Mechanic	20000	27
4	Arjun	Teacher	25500	29

(1) select * from Employee order by Salary asc;

empno	empname	job	salary	deptno
3	Paul	Mechanic	20000	27
1	Anu	Teacher	25000	29
4	Arjun	Teacher	25500	29
2	Anoop	Manager	30000	28

(2) select * from employee where deptno=29;

empno	empname	job	salary	deptno
1	Anu	Teacher	25000	29
4	Arjun	Teacher	25500	29

(3) select distinct deptno from employee;

deptno
29
28
27

(4) select * from employee where job like "M%";

empno	empname	job	salary	deptno
2	Anoop	Manager	30000	28
3	Paul	Mechanic	20000	27

(5) select empname from employee where job=(select job from employee where empname="Arjun");

empname
Anu
Arjun

(6) select count(empno) from employee;

count(empno)
4

(7)select salary from employee where salary=(select min(salary) from employee)union select salary from employee where salary =(select max(salary) from employee);

salary
20000
30000

PROGRAM-2

Create table emp1 with fields empno,empname,job,dept. Insert 5 records

- (1) Display the content of the emp1 table in ascending of empno.
- (2) Display the content of emp1 table.
- (3) Display the half of bp of all employees.
- (4) List the names of employee whose name starts with character 'B'.
- (5) List the names of employee whose second character of names are either 'I' or 'U'.
- (6) Retrieve all information whose salary between 10,000 and 30,000.
- (7) Display the unique job from emp1 table.
- (8) List the name and salary of employee who earn salary between 5000 and 12,000 and are in dept 20 or 50. Table the column empno,empname,month,salary respectively.
- (9) Display the name and job of all employee whose job is 'Clerk','Manager','Analyst'.
- (10) Display the employee in descending order of their bp

Source code

```
create table emp1(empno int,empname varchar(10),job varchar(20),bp int,dept varchar(10));
Query OK, 0 rows affected (0.27 sec)
```

```
describe emp1;
```

Field	Type	Null	Key	Default	Extra
empno	int(11)	YES		NULL	
empname	varchar(10)	YES		NULL	
job	varchar(20)	YES		NULL	
bp	int(11)	YES		NULL	
dept	varchar(10)	YES		NULL	

(1) select * from emp1 order by empno asc;

empno	empname	job	bp	dept
1	Arun	Clerk	50000	KSEB
2	Manu	Manager	50000	Production
3	Anu	Nurse	30000	ENT
4	Sree	Electrician	20000	Audit
5	Balu	Analyst	10000	Electrical

(2) select * from emp1;

empno	empname	job	bp	dept
1	Arun	Clerk	50000	KSEB
2	Manu	Manager	50000	Production
3	Anu	Nurse	30000	ENT
4	Sree	Electrician	20000	Audit
5	Balu	Analyst	10000	Electrical

(3) select bp/2 from emp1;

bp/2
25000.0000
25000.0000
15000.0000
10000.0000
5000.0000

(4) select * from emp1 where empname like 'B%';

empno	empname	job	bp	dept
5	Balu	Analyst	10000	Electrical

(5) select empname from emp1 where (empname like 'A%' or empname like 'U%');

empname
Arun
Anu

(6) select * from emp1 where bp between 10000 and 30000;

empno	empname	job	bp	dept
3	Anu	Nurse	30000	ENT
4	Sree	Electrician	20000	Audit
5	Balu	Analyst	10000	Electrical

(7) select distinct job from emp1;

job
Clerk
Manager
Nurse
Electrician
Analyst

(8) select empname, bp from emp1 where bp not between 5000 and 12000 and dept in('Audit');

empname	bp
Sree	20000

(9) select empname,job from emp1 where job in('Clerk','Manager','Analyst');

empname	job
Arun	Clerk
Manu	Manager
Balu	Analyst

(10) select * from emp1 order by bp desc;

empno	empname	job	bp	dept
1	Arun	Clerk	50000	KSEB
2	Manu	Manager	50000	Production
3	Anu	Nurse	30000	ENT
4	Sree	Electrician	20000	Audit
5	Balu	Analyst	10000	Electrical

PROGRAM-3