

Erstwhile B E College (Estd 1856)

Name: Astik Gorai

Enrollment Id: 2020csb038

Assignment 2

**Database Management System** 

Submission Date: 21.08.2022

GitHub Link: DBMS/Assignment 2 at main · iamastik/DBMS (github.com)

### QN 1. CREATE A EMP TABLE .

```
SELECT * FROM mk_2assignment.emp;
Insert into emp(EmpNo,Ename,Job,Mgr,hiredate,sal,comm,deptNo) values
     (7369, 'Smith', 'Clerk', 7902, '1980-12-17', 800, 0, 20),
     (7499, 'Allen', 'Salesman', 7698, '1981-02-20', 1600, 300, 30),
     (7521, 'Ward', 'Salesman', 7698, '1981-12-22', 1250, 500, 30), deptdept
     (7566, 'Jones', 'Manager', 7839, '1981-04-02', 2975, 0, 20),
     (7654, 'Martin', 'Salesman', 7698, '1981-09-28', 1250, 1400, 30),
     (7698, 'Blake', 'Manager', 7839, '1981-05-01', 2850, 0, 30),
  (7782, 'Clark', 'Manager', 7839, '1980-06-09', 2450,0, 30),
     (7788, 'Scott', 'Analyst', 7566, '1982-12-09', 3000, 0, 20),
     (7839, 'King', 'President',0,'1981-11-17',5000,0,10),
     (7844, 'Turner', 'Salesman', 7698, '1980-09-08', 1500, 0, 30),
     (7876, 'Adams', 'Clerk', 7788, '1983-01-12', 1100, 0, 20),
     (7900, 'James', 'Clerk', 7698, '1981-12-03', 950, 0, 30),
     (7902, 'Ford', 'Analyst', 7566, '1981-12-04', 3000, 0, 20),
     (7934, 'Miller', 'Clerk', 7782, '1982-01-23', 1300,0,10)
```

#### QN 2. Create a DEPT Table

```
use MK_2assignment;

O CREATE TABLE Dept(
    DeptNo int primary key,
    Dname varchar(255),
    Loc varchar(255)
);
```

```
select * from mk_2assignment.dept;
insert into dept(DeptNo,Dname,Loc) values
    (10,'Accounting','New York'),
    (20,'Research','Dallas'),
    (30,'Sales','Chicago'),
    (40,'Operations','Boston')
```

#### Output EMP Table:

EmpNo         Ename         Job         Mgr         hiredate         sal         comm         deptNo           ▶ 7369         Smith         Clerk         7902         1980-12-17         800         0         20           7499         Allen         Salesman         7698         1981-02-20         1600         300         30           7521         Ward         Salesman         7698         1981-02-22         1250         500         30           7566         Jones         Manager         7839         1981-04-02         2975         0         20           7654         Martin         Salesman         7698         1981-09-28         1250         1400         30           7698         Blake         Manager         7839         1981-05-01         2850         0         30           7782         Clark         Manager         7839         1980-06-09         2450         0         30           7839         King         President         0         1981-11-17         5000         0         10           7844         Turner         Salesman         7698         1980-09-08         1500         0         30           7876									
7499         Allen         Salesman         7698         1981-02-20         1600         300         30           7521         Ward         Salesman         7698         1981-12-22         1250         500         30           7566         Jones         Manager         7839         1981-04-02         2975         0         20           7654         Martin         Salesman         7698         1981-09-28         1250         1400         30           7698         Blake         Manager         7839         1981-05-01         2850         0         30           7782         Clark         Manager         7839         1980-06-09         2450         0         30           7788         Scott         Analyst         7566         1982-12-09         3000         0         20           7839         King         President         0         1981-11-17         5000         0         10           7844         Turner         Salesman         7698         1980-09-08         1500         0         30           7876         Adams         Clerk         7788         1981-12-03         950         0         30           7902		EmpNo	Ename	Job	Mgr	hiredate	sal	comm	deptNo
7521 Ward Salesman 7698 1981-12-22 1250 500 30 7566 Jones Manager 7839 1981-04-02 2975 0 20 7654 Martin Salesman 7698 1981-09-28 1250 1400 30 7698 Blake Manager 7839 1981-05-01 2850 0 30 7782 Clark Manager 7839 1980-06-09 2450 0 30 7788 Scott Analyst 7566 1982-12-09 3000 0 20 7839 King President 0 1981-11-17 5000 0 10 7844 Turner Salesman 7698 1980-09-08 1500 0 30 7876 Adams Clerk 7788 1983-01-12 1100 0 20 7900 James Clerk 7698 1981-12-03 950 0 30 7902 Ford Analyst 7566 1981-12-04 3000 0 20 7934 Miller Clerk 7782 1982-01-23 1300 0 10	•	7369	Smith	Clerk	7902	1980-12-17	800	0	20
7566 Jones Manager 7839 1981-04-02 2975 0 20 7654 Martin Salesman 7698 1981-09-28 1250 1400 30 7698 Blake Manager 7839 1981-05-01 2850 0 30 7782 Clark Manager 7839 1980-06-09 2450 0 30 7788 Scott Analyst 7566 1982-12-09 3000 0 20 7839 King President 0 1981-11-17 5000 0 10 7844 Turner Salesman 7698 1980-09-08 1500 0 30 7876 Adams Clerk 7788 1983-01-12 1100 0 20 7900 James Clerk 7698 1981-12-03 950 0 30 7902 Ford Analyst 7566 1981-12-04 3000 0 20 7934 Miller Clerk 7782 1982-01-23 1300 0 10		7499	Allen	Salesman	7698	1981-02-20	1600	300	30
7654         Martin         Salesman         7698         1981-09-28         1250         1400         30           7698         Blake         Manager         7839         1981-05-01         2850         0         30           7782         Clark         Manager         7839         1980-06-09         2450         0         30           7788         Scott         Analyst         7566         1982-12-09         3000         0         20           7839         King         President         0         1981-11-17         5000         0         10           7844         Turner         Salesman         7698         1980-09-08         1500         0         30           7876         Adams         Clerk         7788         1983-01-12         1100         0         20           7900         James         Clerk         7698         1981-12-03         950         0         30           7902         Ford         Analyst         7566         1981-12-04         3000         0         20           7934         Miller         Clerk         7782         1982-01-23         1300         0         10		7521	Ward	Salesman	7698	1981-12-22	1250	500	30
7698         Blake         Manager         7839         1981-05-01         2850         0         30           7782         Clark         Manager         7839         1980-06-09         2450         0         30           7788         Scott         Analyst         7566         1982-12-09         3000         0         20           7839         King         President         0         1981-11-17         5000         0         10           7844         Turner         Salesman         7698         1980-09-08         1500         0         30           7876         Adams         Clerk         7788         1983-01-12         1100         0         20           7900         James         Clerk         7698         1981-12-03         950         0         30           7902         Ford         Analyst         7566         1981-12-04         3000         0         20           7934         Miller         Clerk         7782         1982-01-23         1300         0         10		7566	Jones	Manager	7839	1981-04-02	2975	0	20
7782         Clark         Manager         7839         1980-06-09         2450         0         30           7788         Scott         Analyst         7566         1982-12-09         3000         0         20           7839         King         President         0         1981-11-17         5000         0         10           7844         Turner         Salesman         7698         1980-09-08         1500         0         30           7876         Adams         Clerk         7788         1983-01-12         1100         0         20           7900         James         Clerk         7698         1981-12-03         950         0         30           7902         Ford         Analyst         7566         1981-12-04         3000         0         20           7934         Miller         Clerk         7782         1982-01-23         1300         0         10		7654	Martin	Salesman	7698	1981-09-28	1250	1400	30
7788         Scott         Analyst         7566         1982-12-09         3000         0         20           7839         King         President         0         1981-11-17         5000         0         10           7844         Turner         Salesman         7698         1980-09-08         1500         0         30           7876         Adams         Clerk         7788         1983-01-12         1100         0         20           7900         James         Clerk         7698         1981-12-03         950         0         30           7902         Ford         Analyst         7566         1981-12-04         3000         0         20           7934         Miller         Clerk         7782         1982-01-23         1300         0         10		7698	Blake	Manager	7839	1981-05-01	2850	0	30
7839 King President 0 1981-11-17 5000 0 10 7844 Turner Salesman 7698 1980-09-08 1500 0 30 7876 Adams Clerk 7788 1983-01-12 1100 0 20 7900 James Clerk 7698 1981-12-03 950 0 30 7902 Ford Analyst 7566 1981-12-04 3000 0 20 7934 Miller Clerk 7782 1982-01-23 1300 0 10		7782	Clark	Manager	7839	1980-06-09	2450	0	30
7844         Turner         Salesman         7698         1980-09-08         1500         0         30           7876         Adams         Clerk         7788         1983-01-12         1100         0         20           7900         James         Clerk         7698         1981-12-03         950         0         30           7902         Ford         Analyst         7566         1981-12-04         3000         0         20           7934         Miller         Clerk         7782         1982-01-23         1300         0         10		7788	Scott	Analyst	7566	1982-12-09	3000	0	20
7876 Adams Clerk 7788 1983-01-12 1100 0 20 7900 James Clerk 7698 1981-12-03 950 0 30 7902 Ford Analyst 7566 1981-12-04 3000 0 20 7934 Miller Clerk 7782 1982-01-23 1300 0 10		7839	King	President	0	1981-11-17	5000	0	10
7900 James Clerk 7698 1981-12-03 950 0 30 7902 Ford Analyst 7566 1981-12-04 3000 0 20 7934 Miller Clerk 7782 1982-01-23 1300 0 10		7844	Turner	Salesman	7698	1980-09-08	1500	0	30
7902 Ford Analyst 7566 1981-12-04 3000 0 20 7934 Miller Clerk 7782 1982-01-23 1300 0 10		7876	Adams	Clerk	7788	1983-01-12	1100	0	20
7934 Miller Clerk 7782 1982-01-23 1300 0 10		7900	James	Clerk	7698	1981-12-03	950	0	30
NULL NULL NULL NULL NULL NULL NULL NULL		7902	Ford	Analyst	7566	1981-12-04	3000	0	20
NOTE NOTE NOTE NOTE NOTE NOTE		7934	Miller	Clerk	7782	1982-01-23	1300	0	10
		NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

#### DEPT Table:

	DeptNo	Dname	Loc
	10	Accounting	New York
	20	Research	Dallas
	30	Sales	Chicago
	40	Operations	Boston
6	NULL	NULL	NULL

1. List the names of analysts and salesman.

```
use mk_2assignment;
select Ename
From emp
where Job='Salesman' or Job='Analyst'
```

	Ename
<b>•</b>	Allen
	Ward
	Martin
	Scott
	Turner
	Ford

2. List the details of employees who have joined before 30 SEP 81.

```
use mk_2assignment;
select *
from emp
where hiredate<'1981-09-30'</pre>
```

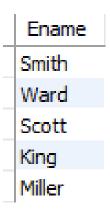
	EmpNo	Ename	Job	Mgr	hiredate	sal	comm	deptNo
٠	7369	Smith	Clerk	7902	1980-12-17	800	0	20
	7499	Allen	Salesman	7698	1981-02-20	1600	300	30
	7566	Jones	Manager	7839	1981-04-02	2975	0	20
	7654	Martin	Salesman	7698	1981-09-28	1250	1400	30
	7698	Blake	Manager	7839	1981-05-01	2850	0	30
	7782	Clark	Manager	7839	1980-06-09	2450	0	30
	7844	Turner	Salesman	7698	1980-09-08	1500	0	30
	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

- 3. List names of employees who are not manager.
- use mk\_2assignment;
- select Ename
   from emp
   where Job !='Manager'

Ename
Smith
Allen
Ward
Martin
Scott
King
Turner
Adams
James
Ford
Miller

4. List names of employees whose employment numbers are 7367, 7521, 7839, 7934, 7788

```
use mk_2assignment;
select Ename
from emp
where EmpNo=7369 or EmpNo = 7521 or EmpNo = 7839 or EmpNo = 7934 or EmpNo = 7788
```



5. List the name of employees who have joined between 30 June and 31 Dec , 1981

```
use mk_2assignment;

select Ename
from emp
where deptNo != 30 and deptNo!= 40 and deptNo != 10
```



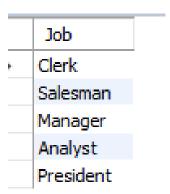
6. List of employees who are not belonging not belonging to 30, 40 or 10.

```
use mk_2assignment;

select Ename
from emp
where deptNo != 30 and deptNo!= 40 and deptNo != 10
```

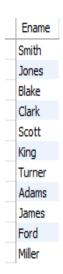
		_'	
	Ename		
•	Smith		
	Jones		
	Scott		
	Adams		
	Ford		

- 7. List the different designation of the company.
  - use mk\_2assignment;
  - select distinct Job from emp

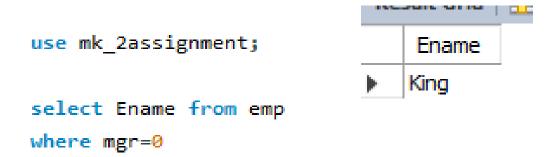


8. List the name of employees who are not eligible for commission.

```
use mk_2assignment;
select Ename from emp
where comm=0
```

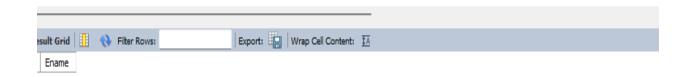


9. List the name and designation of the employees who does not report to anybody.

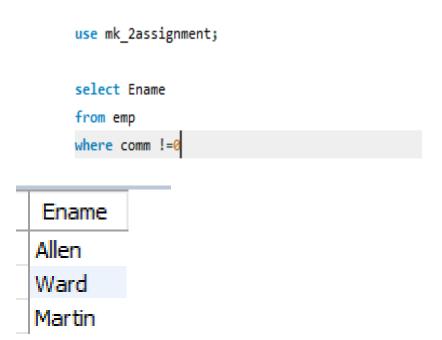


10. List the name of employee who does not assigned to any department.

```
1
2
3 • use mk_2assignment;
4 • select Ename
5 from emp
6 where deptNo=0
```



11. List the number of employees who are eligible for commission.



12. List the name of employees whose name either start or end with 's'.

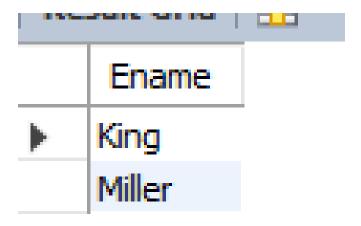
```
select Ename
from emp
Where Ename like '%s' or Ename Like 's%';

Ename
Smith
Jones
Scott
Adams
James
```

13. List the name of the employees whose second character of his name is "i".

```
use mk_2assignment;

select Ename
from emp
Where Ename like '_i%';
```

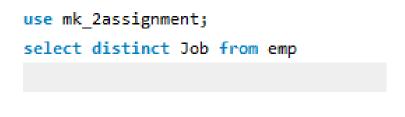


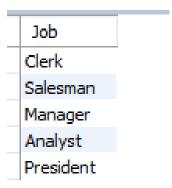
14. List the number of employees working with the company.

```
use mk_2assignment;
select Ename,dept.Dname
from emp
join dept on dept.DeptNo = emp.deptNo
```

	Ename	Dname
٠	Smith	Research
	Allen	Sales
	Ward	Sales
	Jones	Research
	Martin	Sales
	Blake	Sales
	Clark	Sales
	Scott	Research
	King	Accounting
	Turner	Sales
	Adams	Research
	James	Sales
	Ford	Research
	Miller	Accounting

15. List the number of designation available in the EMP table.





16. List the total salary paid by the Employees.

```
use mk_2assignment;
select Ename,sal,comm ,sal+comm as 'Total Salary'
from emp
```

Ename	sal	comm	Total Salary
Smith	800	0	800
Allen	1600	300	1900
Ward	1250	500	1750
Jones	2975	0	2975
Martin	1250	1400	2650
Blake	2850	0	2850
Clark	2450	0	2450
Scott	3000	0	3000
King	5000	0	5000
Turner	1500	0	1500
Adams	1100	0	1100
James	950	0	950
Ford	3000	0	3000
Miller	1300	0	1300

17. List the maximum, minimum and average salary of the company.

```
use mk_2assignment;
```

```
select max(sal) as 'Max Salary' , min(sal) as 'Minimum Salary',avg(sal) AS 'Average Salary'
from emp
```

Max	Minimum	Average
Salary	Salary	Salary
5000	800	

18. List the maximum salary paid by the salesman.

```
use mk_2assignment;
select max(sal) as 'Max Salary For a sales man'
from emp
where Job='Salesman'
```

```
Max Salary For a sales
man
1600
```

## Thank You

# **Remarks**