## Assignment 1

## Create a Database name entri\_assignment

```
Create a Table with name departments
Department id (pk) Department name Location id+
Create a Table with name employees
Employee id (pk) ,first name, last name
,email, phone number, hire date,
job id, salary, commission pct, manager id, department id (fk
reference
## Insert into Departments table
INSERT INTO departments VALUES ( 20, 'Marketing', 180);
INSERT INTO departments VALUES ( 30, 'Purchasing', 1700);
INSERT INTO departments VALUES ( 40, 'Human Resources', 2400);
INSERT INTO departments VALUES ( 50, 'Shipping', 1500);
INSERT INTO departments VALUES ( 60 , 'IT', 1400);
INSERT INTO departments VALUES ( 70, 'Public Relations', 2700);
INSERT INTO departments VALUES ( 80 , 'Sales', 2500 );
INSERT INTO departments VALUES ( 90 , 'Executive', 1700);
INSERT INTO departments VALUES ( 100 , 'Finance', 1700);
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INSERT INTO departments VALUES ( 110 , 'Accounting', 1700);

INSERT INTO departments VALUES ( 120 , 'Treasury' , 1700);

INSERT INTO departments VALUES ( 130 , 'Corporate Tax' , 1700 );

INSERT INTO departments VALUES ( 140, 'Control And Credit' , 1700);

INSERT INTO departments VALUES ( 150 , 'Shareholder Services', 1700);

INSERT INTO departments VALUES ( 160 , 'Benefits', 1700);

INSERT INTO departments VALUES ( 170 , 'Payroll' , 1700);
```

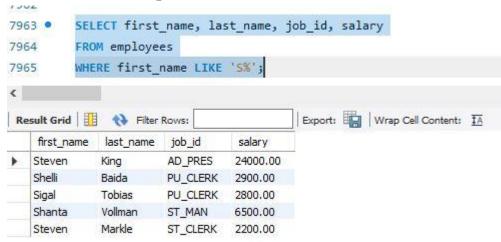
```
INSERT INTO employees VALUES (100, 'Steven', 'King', 'SKING',
'515.123.4567', '1987-06-17', 'AD PRES', 24000 , NULL, NULL, 20);
Insertinto employees VALUES (101, 'Neena', 'Kochhar',
'NKOCHHAR' , '515.123.4568' , '1989-11-21' , 'AD VP' , 17000 ,
NULL , 100 , 20);
INSERT INTO employees VALUES (102 , 'Lex' , 'De Haan' , 'LDEHAAN'
, '515.123.4569' , '1993-09-12' , 'AD VP' , 17000 , NULL , 100 ,
30);
INSERT INTO employees VALUES (104 , 'Bruce' , 'Ernst' , 'BERNST' ,
'590.423.4568' , '1991-05-21', 'IT PROG' , 6000 , NULL , 103 ,
60);
INSERT INTO employees VALUES (105 , 'David' , 'Austin' , 'DAUSTIN'
, '590.423.4569' , '1997-06-25', 'IT PROG' , 4800 , NULL , 103 ,
60);
INSERT INTO employees VALUES (106 , 'Valli' , 'Pataballa' ,
'VPATABAL' , '590.423.4560' , '1998-02-05', 'IT PROG' , 4800 ,
NULL , 103 , 40);
INSERT INTO employees VALUES (107 , 'Diana' , 'Lorentz' ,
'DLORENTZ' , '590.423.5567' , '1999-02-09', 'IT PROG' , 4200 ,
NULL , 103 , 40);
INSERT INTO employees VALUES (108 , 'Nancy' , 'Greenberg' ,
'NGREENBE' , '515.124.4569' , '1994-08-17', 'FI_MGR' , 12000 ,
NULL , 101 , 100);
INSERT INTO employees VALUES (109 , 'Daniel' , 'Faviet' ,
'DFAVIET' , '515.124.4169' , '1994-08-12', 'FI ACCOUNT' , 9000 ,
NULL , 108 , 170);
```

```
INSERT INTO employees VALUES (110 , 'John' , 'Chen' , 'JCHEN' ,
'515.124.4269' , '1997-04-09', 'FI ACCOUNT' , 8200 , NULL , 108 ,
170);
INSERT INTO employees VALUES (111 , 'Ismael' , 'Sciarra' ,
'ISCIARRA' , '515.124.4369' , '1997-02-01', 'FI ACCOUNT' , 7700 ,
NULL , 108 , 160);
INSERT INTO employees VALUES (112 , 'Jose Manuel' , 'Urman' ,
'JMURMAN' , '515.124.4469' , '1998-06-03', 'FI ACCOUNT' , 7800 ,
NULL 8 , 150);
INSERT INTO employees VALUES (114 , 'Den' , 'Raphaely' ,
'DRAPHEAL' , '515.127.4561' , '1994-11-08', 'PU MAN' , 11000 ,
NULL , 100 , 30);
INSERT INTO employees VALUES (115 , 'Alexander' , 'Khoo' , 'AKHOO'
, '515.127.4562' , '1995-05-12', 'PU CLERK' , 3100 , NULL , 114 ,
80);
INSERT INTO employees VALUES (116 , 'Shelli' , 'Baida' , 'SBAIDA'
, '515.127.4563' ,'1997-12-13', 'PU CLERK' , 2900 , NULL , 114 ,
70);
INSERT INTO employees VALUES (117 , 'Sigal' , 'Tobias' , 'STOBIAS'
, '515.127.4564' , '1997-09-10', 'PU CLERK' , 2800 , NULL , 114 ,
30);
INSERT INTO employees VALUES (118 , 'Guy' , 'Himuro' , 'GHIMURO' ,
'515.127.4565' , '1998-01-02', 'PU CLERK' , 2600 , NULL , 114 ,
60);
INSERT INTO employees VALUES (119 , 'Karen' , 'Colmenares' ,
'KCOLMENA' , '515.127.4566' , '1999-04-08', 'PU CLERK' , 2500 ,
NULL , 114 , 130);
```

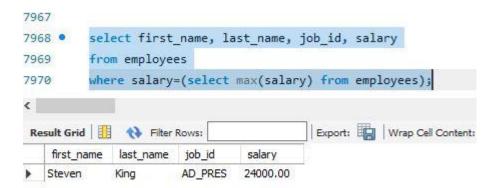
```
INSERT INTO employees VALUES (120 , 'Matthew' , 'Weiss' , 'MWEISS'
, '650.123.1234' ,'1996-07-18', 'ST MAN' , 8000 , NULL , 100 ,
50);
INSERT INTO employees VALUES (122 , 'Payam' , 'Kaufling' ,
'PKAUFLIN' , '650.123.3234' ,'1995-05-01', 'ST MAN' , 7900 , NULL
, 100 , 40);
INSERT INTO employees VALUES (123 , 'Shanta' , 'Vollman' ,
'SVOLLMAN', '650.123.4234', '1997-10-12', 'ST MAN', 6500,
NULL , 100 , 50);
INSERT INTO employees VALUES (124, 'Kevin', 'Mourgos',
'KMOURGOS' , '650.123.5234' , '1999-11-12', 'ST MAN' , 5800 ,
NULL , 100 , 80);
INSERT INTO employees VALUES (125, 'Julia', 'Nayer', 'JNAYER',
'650.124.1214' , '1997-07-02', 'ST CLERK' , 3200 , NULL , 120 ,
50);
INSERT INTO employees VALUES (126, 'Irene', 'Mikkilineni',
'IMIKKILI' , '650.124.1224' , '1998-11-12', 'ST CLERK' , 2700 ,
NULL , 120 , 50);
INSERT INTO employees VALUES (127, 'James', 'Landry', 'JLANDRY'
, '650.124.1334' , '1999-01-02' , 'ST CLERK' , 2400 , NULL , 120 ,
90);
INSERT INTO employees VALUES (128, 'Steven' , 'Markle' , 'SMARKLE'
, '650.124.1434' , '2000-03-04' , 'ST CLERK' , 2200 , NULL , 120 ,
50);
INSERT INTO employees VALUES (130, 'Mozhe', 'Atkinson',
'MATKINSO' , '650.124.6234' , '1997-10-12' , 'ST CLERK' , 2800 ,
NULL , 121 , 110);
```

## Solve SQL Exercises

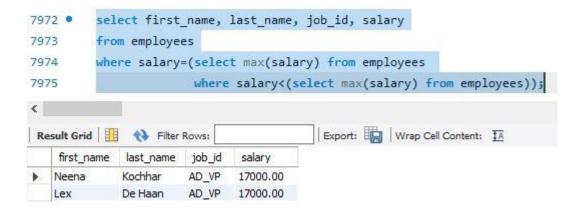
 Select employees first name, last name, job\_id and salary whose first name starts with alphabet S



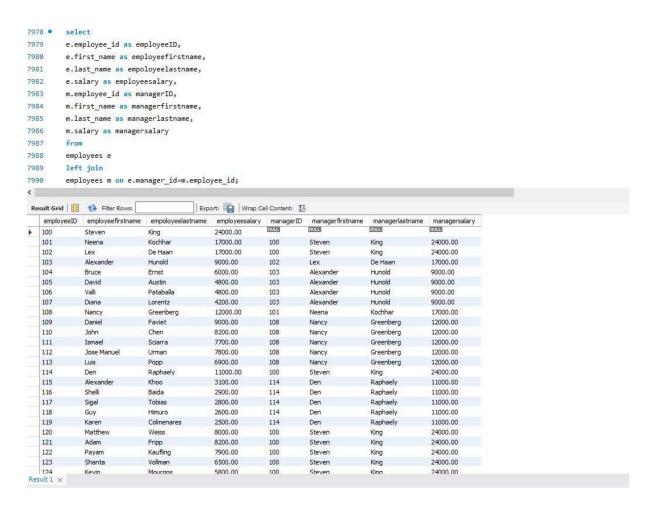
2. Write a query to select employee with the highest salary (using an inner query)



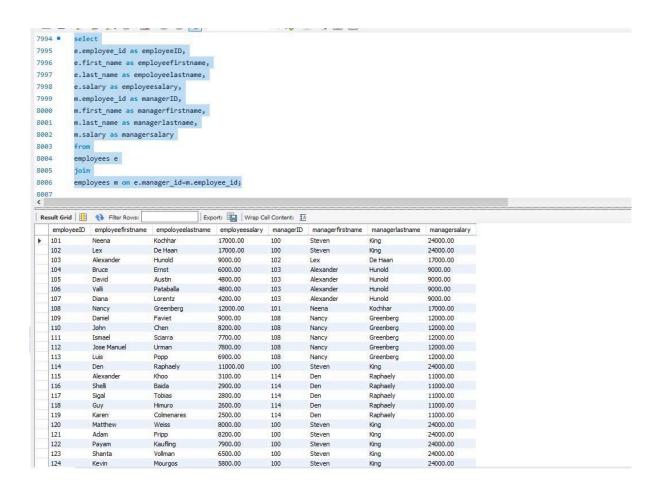
3. Select employee with the second highest salary



4. Write a query to select employees and their corresponding managers and their salaries



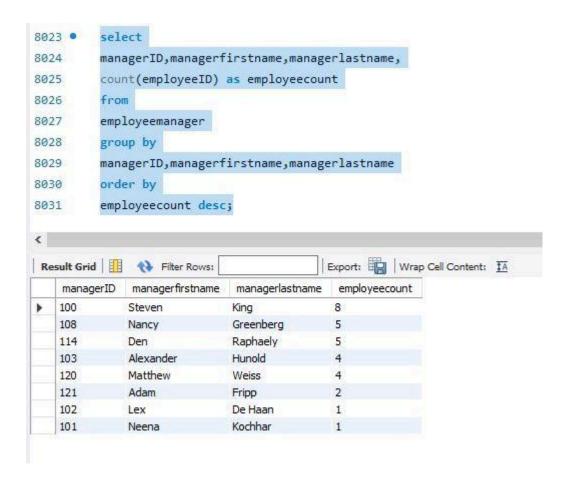
5. Write a query to select employees and their corresponding managers and their salaries (SELF Join)



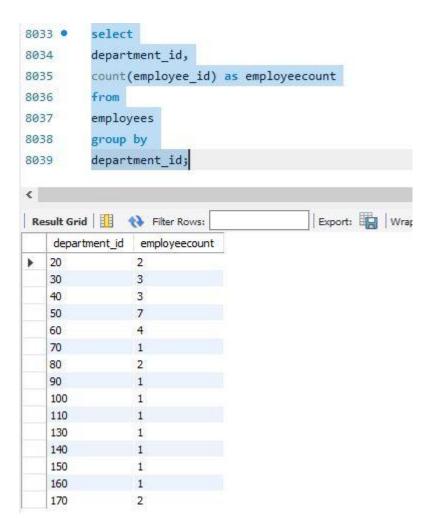
6. Create a view for the above query

```
8008
         create view employeemanager as
8009
8010
          e.employee_id as employeeID,
8011
          e.first_name as employeefirstname,
8012
          e.last_name as empoloyeelastname,
8013
          e.salary as employeesalary,
         m.employee_id as managerID,
8014
8015
          m.first_name as managerfirstname,
8016
         m.last_name as managerlastname,
8017
          m.salary as managersalary
8018
          from
8019
          employees e
8020
          join
          employees m on e.manager_id=m.employee_id;
<
Output
Action Output
       Time
                Action
                                                                                                                                  Message
    2 15:04:06 select e.employee_id as employeeID, e.first_name as employeefirstname, e.last_name as employeelastname, e.salary as employeeslary, m.employee_i...
                                                                                                                                  30 row(s) returned
```

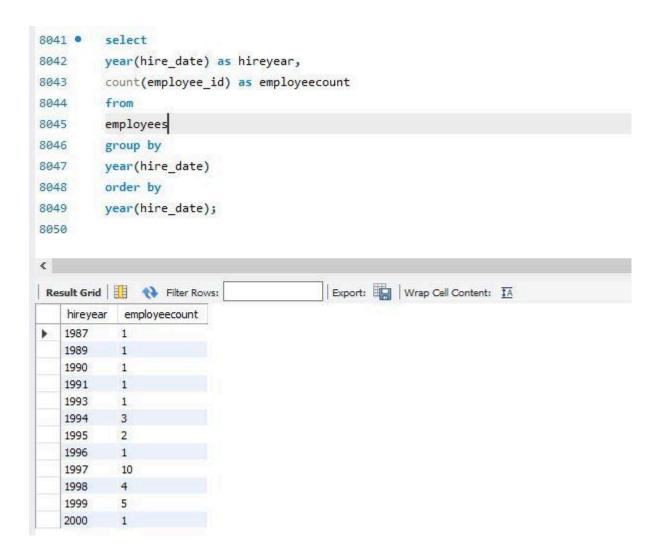
7. Write a query to show the count of employees under each manager in descending order (from view)



8. Find the count of employees in each department



9. Get the count of employees hired year wise



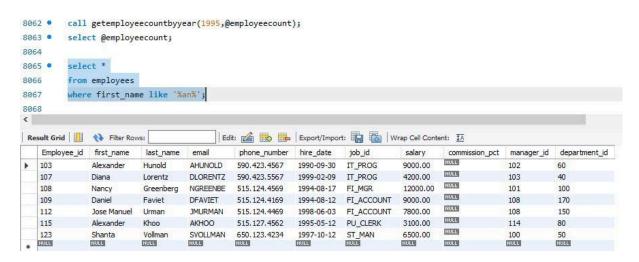
 ${\tt 10}$  . create a stored procedure to get the " Get the count of employees hired in the input year"(IN year , OUT count)

```
8052
         delimiter $
8053 •
         create procedure getemployeecountbyyear(in inputyear int,out employeecount i
8054

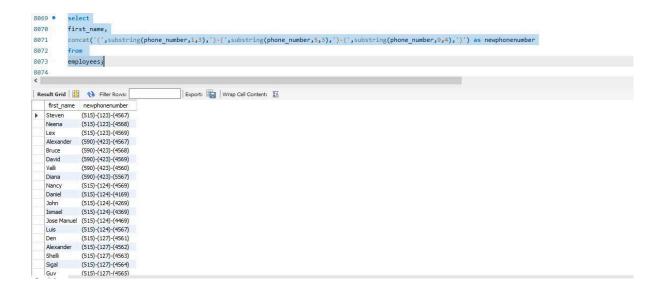
⊕ begin

         select count(*)
8055
8056
         into employeecount
        from employees
8057
         where year(hire date)=inputyear;
8058
         end $
8059
         delimiter;
8060
8061
         call getemployeecountbyyear(1995,@employeecount);
8062 •
         select @employeecount;
8063 •
8064
<
Export: Wrap Cell Content: IA
    @employeecount
2
```

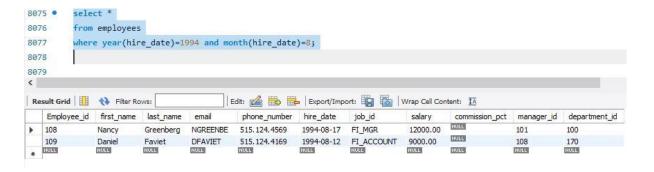
11. Select the employees whose first\_name contains "an"



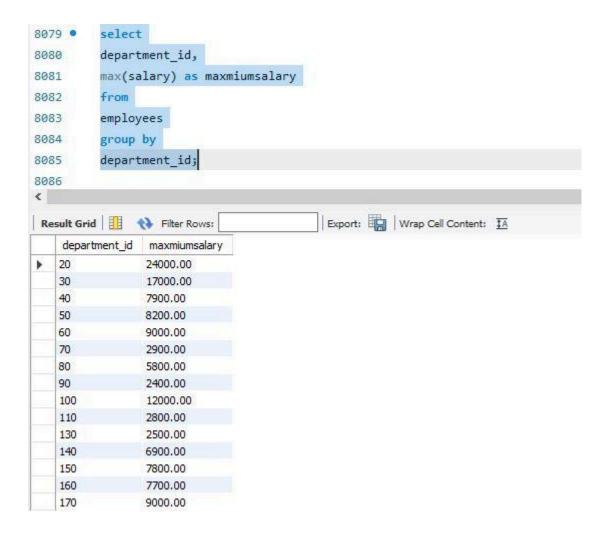
12. Select employee first name and the corresponding phone number in the format (\_ \_ \_)-(\_ \_ \_)-(\_ \_ \_)



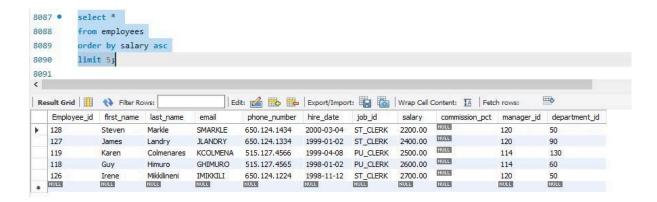
13. Find the employees who joined in August, 1994.



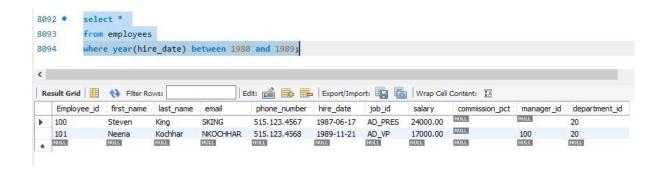
14. Find the maximum salary from each department.



15.Write a SQL query to display the 5 least earning employees



16. Find the employees hired in the 80s



17. Find the employees who joined the company after 15th of the month

