Assignment 1

1. Select employees first name, last name, job_id and salary whose first name starts with alphabet S

```
Database changed
nysql> select first_name,last_name,job_id,salary from employees where first_name like 'S%';
 first_name | last_name | job_id
                                      salary
 Shelli
               Baida
                            PU CLERK
                                         2900
                            PU_CLERK
ST_MAN
 Sigal
               Tobias
                                          2800
               Vollman
                                         6500
 Shanta
               Markle
 Steven
                            ST_CLERK
                                         2200
 rows in set (0.00 sec)
```

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

3. Select employee with the second highest salary

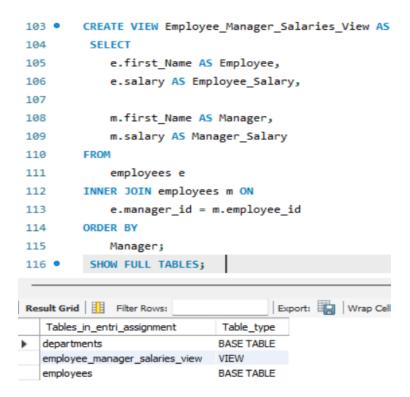
4. Write a query to select employees and their corresponding managers and their salaries

```
mysql> SELECT
           e.first_name AS employee_name,
           e.salary AS employee_salary,
           m.first_name AS manager_name,
    ->
           m.salary AS manager_salary
    -> FROM
    ->
           employees e
    -> LEFT JOIN
           employees m ON e.manager_id = m.employee_id;
  employee_name | employee_salary | manager_name | manager_salary
  Neena
                              17000
                                      NULL
                                                                 NULL
                              17000
                                      NULL
                                                                 NULL
  Lex
  Bruce
                               6000
                                      NULL
                                                                 NULL
  David
                               4800
                                                                 NULL
                                      NULL
  Valli
                               4800
                                      NULL
                                                                 NULL
  Diana
                               4200
                                      NULL
                                                                 NULL
                              12000
  Nancy
                                      Neena
                                                                17000
  Daniel
                               9000
                                      Nancy
                                                                12000
  John
                               8200
                                      Nancy
                                                                12000
  Ismael
                               7700
                                                                12000
                                      Nancy
  Jose Manuel
                               7800
                                      Nancy
                                                                12000
  Den
                              11000
                                      NULL
                                                                 NULL
  Alexander
                               3100
                                      Den
                                                                11000
  Shelli
                               2900
                                                                11000
                                      Den
  Sigal
                               2800
                                      Den
                                                                11000
  Guv
                               2600
                                      Den
                                                                11000
                               2500
                                      Den
                                                                11000
  Karen
                               8000
  Matthew
                                      NULL
                                                                 NULL
                               7900
  Payam
                                      NULL
                                                                 NULL
  Shanta
                               6500
                                      NULL
                                                                 NULL
  Kevin
                               5800
                                      NULL
                                                                 NULL
  Julia
                               3200
                                      Matthew
                                                                 8000
  Irene
                               2700
                                      Matthew
                                                                 8000
  James
                               2400
                                      Matthew
                                                                 8000
  Steven
                               2200
                                      Matthew
                                                                 8000
  Mozhe
                               2800
                                      NULL
                                                                 NULL
26 rows in set (0.00 sec)
```

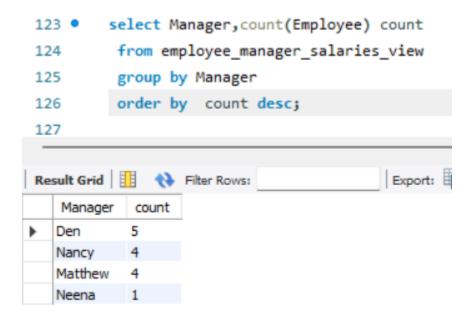
5. Write a query to select employees and their corresponding managers and their salaries (SELF Join)

```
mysql>
        SELECT
           e.first_Name AS Employee,
    ->
           e.salary AS Employee_Salary,
    ->
    ->
        m.first_Name AS Manager,
    ->
           m.salary AS Manager_Salary
    -> FROM
           employees e
    ->
    -> INNER JOIN employees m ON
           e.manager_id = m.employee_id
    -> ORDER BY
           Manager;
  Employee
                 Employee_Salary | Manager
                                              Manager_Salary
  Alexander
                             3100
                                    Den
                                                        11000
  Shelli
                             2900
                                    Den
                                                        11000
  Sigal
                             2800
                                    Den
                                                        11000
  Guy
                            2600
                                    Den
                                                        11000
  Karen
                            2500
                                                        11000
                                    Den
  Julia
                            3200
                                    Matthew
                                                         8000
  Irene
                            2700
                                    Matthew
                                                         8000
  James
                             2400
                                    Matthew
                                                         8000
  Steven
                            2200
                                    Matthew
                                                         8000
  Daniel
                            9000
                                    Nancy
                                                        12000
  John
                            8200
                                    Nancy
                                                        12000
  Ismael
                            7700
                                    Nancy
                                                        12000
  Jose Manuel
                            7800
                                                        12000
                                    Nancy
  Nancy
                           12000
                                    Neena
                                                        17000
14 rows in set (0.00 sec)
```

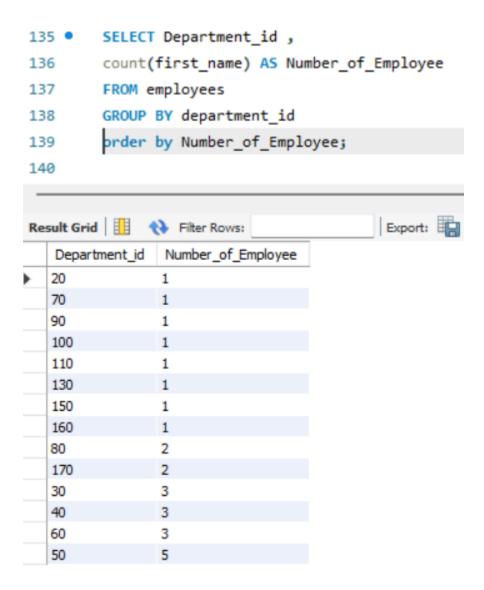
6. Create a view for the above query



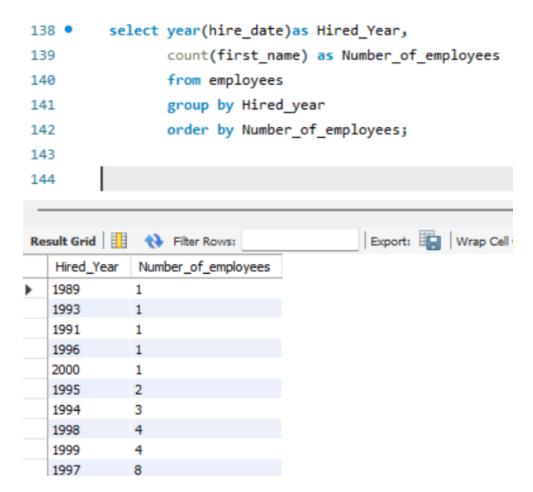
7. Write a query to show the count of employees under each manager in descending order (from view)



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 " ${\tt Get}$ the count of employees hired in the input year"(IN year , OUT count)

```
mao i circute a storea procedure to get the
147
148 • ⊝ CREATE PROCEDURE GetCountOfEmployees (
            IN input year INT,
149
            OUT employee count INT
150
151
        )

→ BEGIN

152
           SELECT COUNT(*)
153
154
            INTO employee_count
           FROM employees
155
           WHERE YEAR(hire date) = input year;
156
       END$$
157
158
159
        DELIMITER;
160
      CALL GetCountOfEmployees('1998',@employee_count);
161 •
        select @employee count;
162 •
                                        Export: Wrap Cell Cor
Result Grid Filter Rows:
   @employee_count
```

11. Select the employees whose first_name contains "an"

```
mysql> SELECT first_name FROM employees WHERE first_name LIKE '%an%';
+------+
| first_name |
+-----+
| Diana |
| Nancy |
| Daniel |
| Jose Manuel |
| Alexander |
| Shanta |
+-----+
6 rows in set (0.00 sec)
```

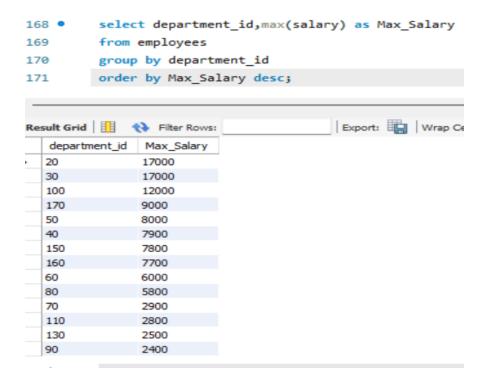
12. Select employee first name and the corresponding phone number in the format (_ _ _)-(_ _ _)-(_ _ _)

```
mysql> select
           first_name,
          CONCAT('(', SUBSTRING(phone_number, 1, 3), ')-(', SUBSTRING(phone_number, 5, 3), ')-(', SUBSTRING(phone_number, 9, 4), ')')
AS formatted_phone_number
   ->
   -> FROM
          employees;
 first_name |
               formatted_phone_number
               Neena
 Lex
 Bruce
 David
 Valli
 Diana
 Nancy
 Daniel
 John
 Ismael
 Jose Manuel
 Den
 Alexander
 Shelli
 Sigal
 Guy
 Karen
 Matthew
 Payam
 Shanta
 Kevin
 Julia
 Irene
 James
 Steven
 Mozhe
26 rows in set (0.00 sec)
```

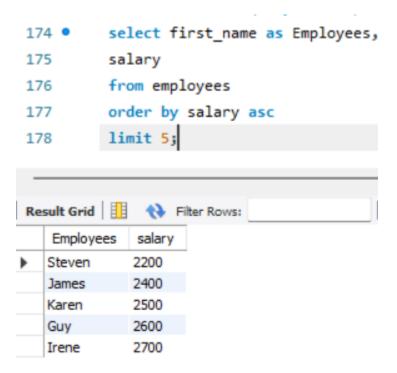
13. Find the employees who joined in August, 1994.



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

