1. Display the first and last names of only managers. How many were there?

```
nysql> SELECT distinct mgr.first_name, mgr.last_name FROM employees emp join employees mgr on emp.manager_id = mgr.employee_id;
  first_name | last_name
                King
Kochhar
  Steven
  Neena
                De Haan
  Alexander
                Hunold
                Greenberg
Raphaely
  Nancy
  Den
  Matthew
                Weiss
                Fripp
Kaufling
Vollman
  Adam
  Payam
Shanta
  Kevin
                Mourgos
                Russell
  John
  Karen
                Partners
  Alberto
                Errazuriz
  Gerald
                Cambrault
                Zlotkey
Hartstein
  Eleni
  Michael
  Shelley
                Higgins
18 rows in set (0.00 sec)
mysql>
```

2. Perform the query that displays a list employee's last names who work in the "Finance" department.

3. Perform 2 different queries that displays all employee first names which have 5 letters and the letter "e". Hint: one method could use the OR operator and the second method either the UPPER/LOWER function.

```
mysql> Select emp.first_name
    -> From employees emp
    -> Where emp.first_name like '____' and emp.first_name like '%e%';
 first_name |
  Neena
  Bruce
  Karen
  Kevin
 Irene
  James
  Mozhe
  James
  Hazel
  Peter
 Karen
  Eleni
  Peter
  Peter
  Ellen
 Kelly
 Vance
 Kevin
18 rows in set (0.01 sec)
mysql>
```

4. What SQL query can be done to determine which department employs the most number of employees?

5. What SQL query determines the date the first person was hired? In other words, who is the most senior employee?

6. Write a query that counts the number of months between the date the first person was hired and the date the last time a person was hired.

7. Display the list of employee id's who are not managers.

mysql> select emp.employee_id from employees emp left join departments mgr on emp.employee_id = mgr.manager_id where mgr.manager_id is NULL;

```
170
           171
           172
           173
           174
           175
           176
           177
           178
           179
           180
           181
           182
           183
           184
           185
           186
           187
           188
           189
           190
           191
           192
           193
           194
           195
           196
           197
           198
           199
           202
           206
96 rows in set (0.00 sec)
```

8. Display the names of employees who earn the highest salary in their respective department.

```
ysql>
ysql> select dp.department_name, emp.first_name, emp.salary
-> from employees emp join departments dp where emp.department_id = dp.department_id
-> and (dp.department_id, emp.salary) in (select department_id,max(salary) from employees group by department_id);
  department_name | first_name | salary
                                 Jennifer
Michael
  Administration
                                                        4400.00
  Marketing
                                                      13000.00
11000.00
  Purchasing
                                 Den
  Human Resources
Shipping
                                                        6500.00
8200.00
9000.00
                                 Susan
Adam
                                 Alexander
                                                      10000.00
  Public Relations
                                 Hermann
John
 Sales
Executive
Finance
Accounting
                                 Steven
                                                      24000.00
                                Nancy
Shelley
                                                      12008.00 |
12008.00 |
11 rows in set (0.05 sec)
ysql>
```

9. Display a list of employee last names where the same last name is shared by multiple employees.

10. Are there any employee(s) who earn more than his/her manager? What is the query and results?