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 ( 170 , 'Payroll' , 1700);
```

```
employees table

; INSERT INTO employees V

## Insert into 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);
```

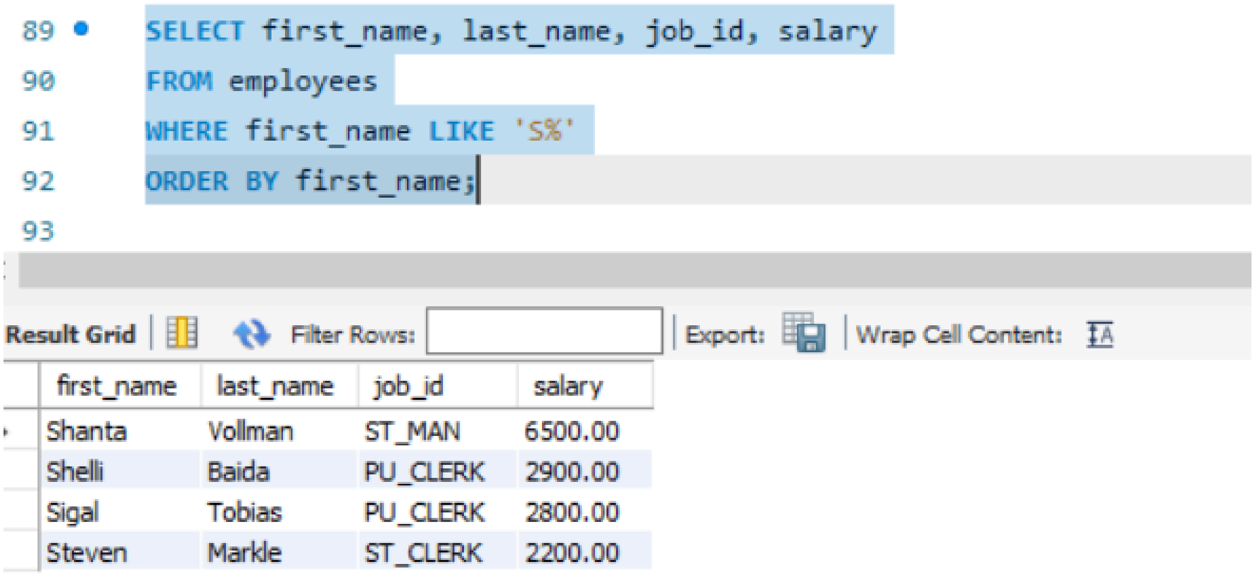
```
INSERT INTO employees VALUES (127, 'James' , 'Landry' , 'JLANDRY' ,
'650.124.1334' , '1999-01-02' , 'ST_CLERK' , 2400 , NULL , 120 , 90);
```

```
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

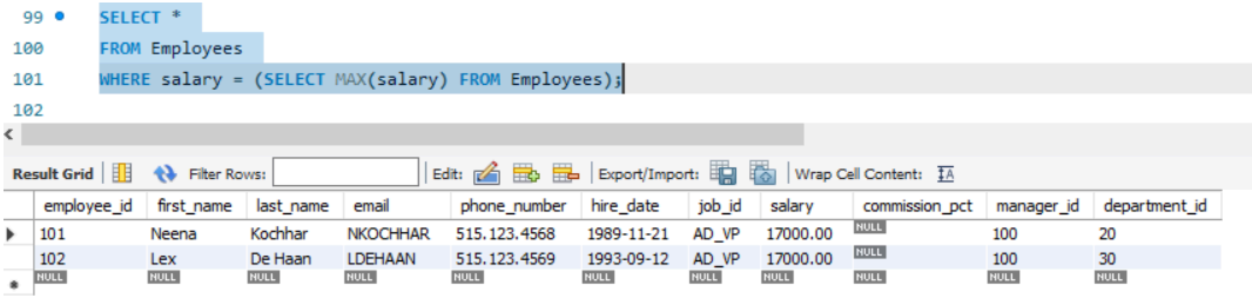
1. Select employees first name, last name, job_id and salary whose first name starts with alphabet S



```
SELECT first_name, last_name, job_id, salary
FROM employees
WHERE first_name LIKE 'S%'
ORDER BY first_name;
```

first_name	last_name	job_id	salary
Shanta	Vollman	ST_MAN	6500.00
Shelli	Baida	PU_CLERK	2900.00
Sigal	Tobias	PU_CLERK	2800.00
Steven	Markle	ST_CLERK	2200.00

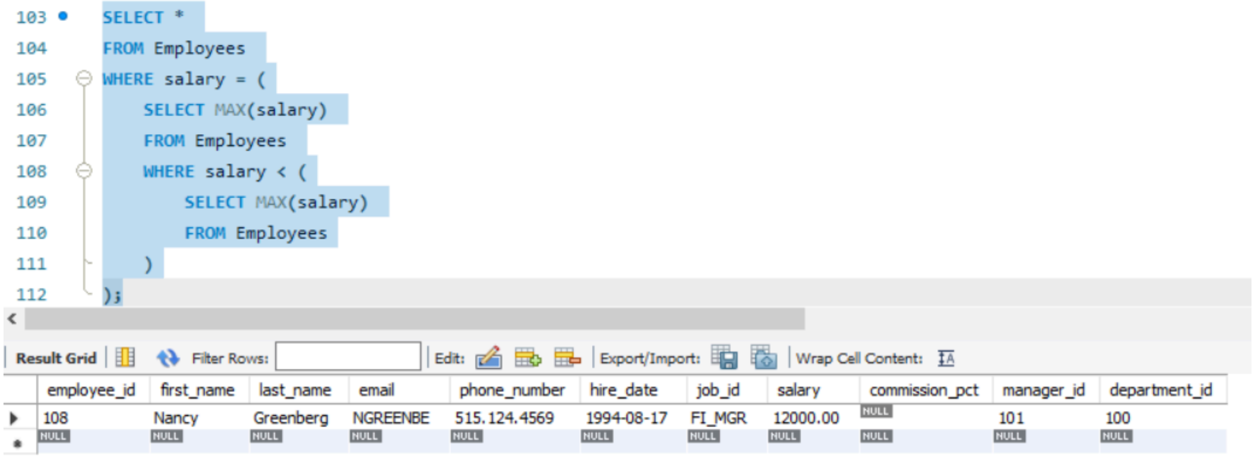
2. Write a query to select employee with the highest salary (using an inner query)



```sql
SELECT *
FROM Employees
WHERE salary = (SELECT MAX(salary) FROM Employees);
```

employee_id	first_name	last_name	email	phone_number	hire_date	job_id	salary	commission_pct	manager_id	department_id
101	Neena	Kochhar	NKOCHHAR	515.123.4568	1989-11-21	AD_VP	17000.00	NULL	100	20
102	Lex	De Haan	LDEHAAN	515.123.4569	1993-09-12	AD_VP	17000.00	NULL	100	30
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

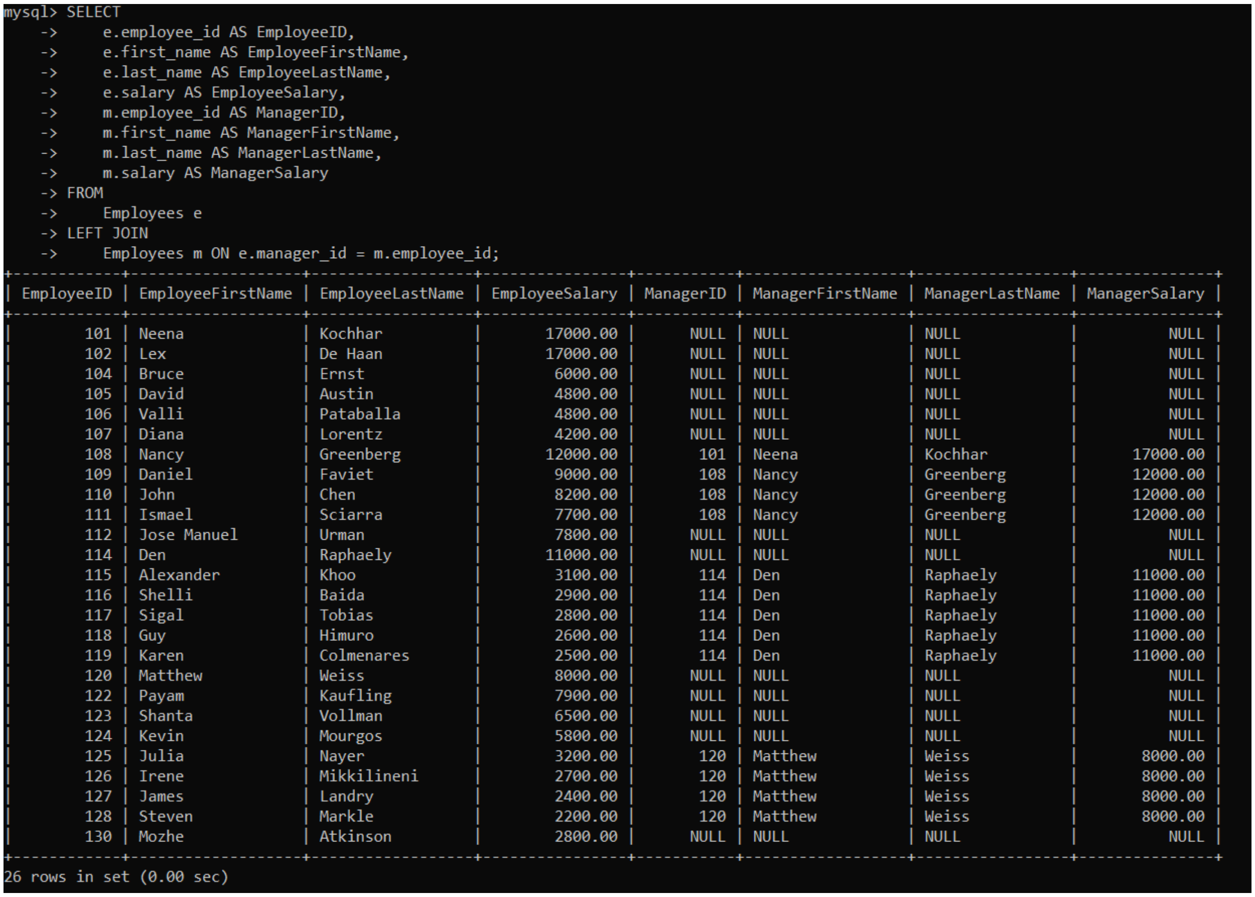
3. Select employee with the second highest salary



```sql
SELECT *
FROM Employees
WHERE salary = (
    SELECT MAX(salary)
    FROM Employees
    WHERE salary < (
        SELECT MAX(salary)
        FROM Employees
    )
);
```

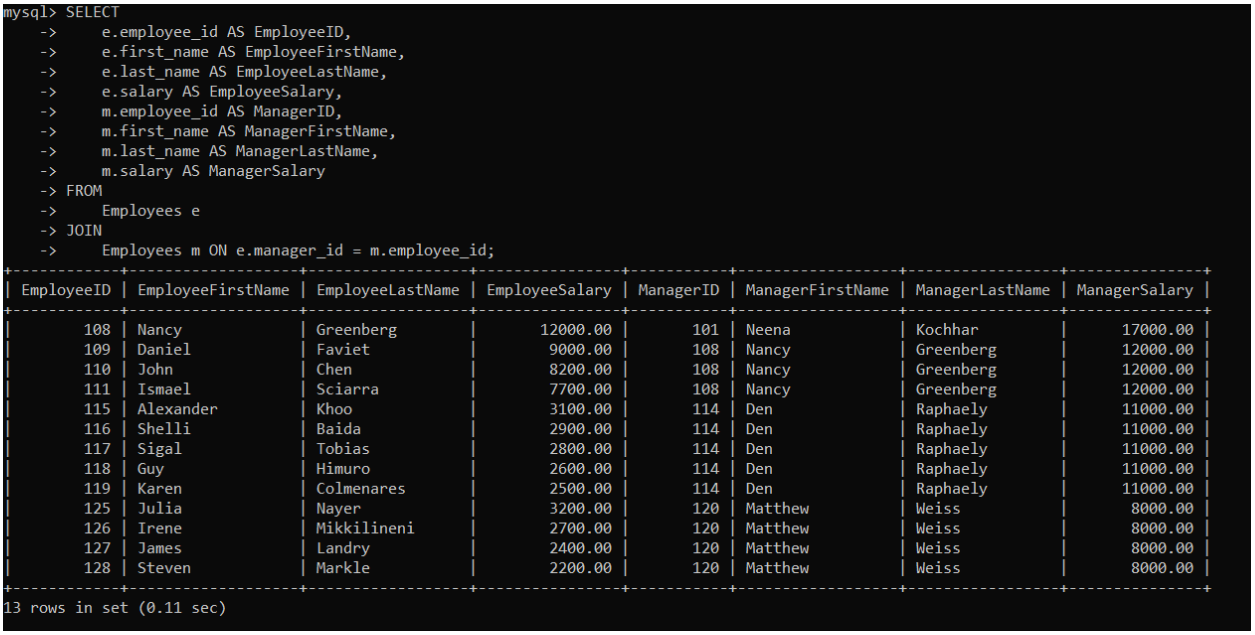
employee_id	first_name	last_name	email	phone_number	hire_date	job_id	salary	commission_pct	manager_id	department_id
108	Nancy	Greenberg	NGREENBE	515.124.4569	1994-08-17	FI_MGR	12000.00	NULL	101	100
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

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



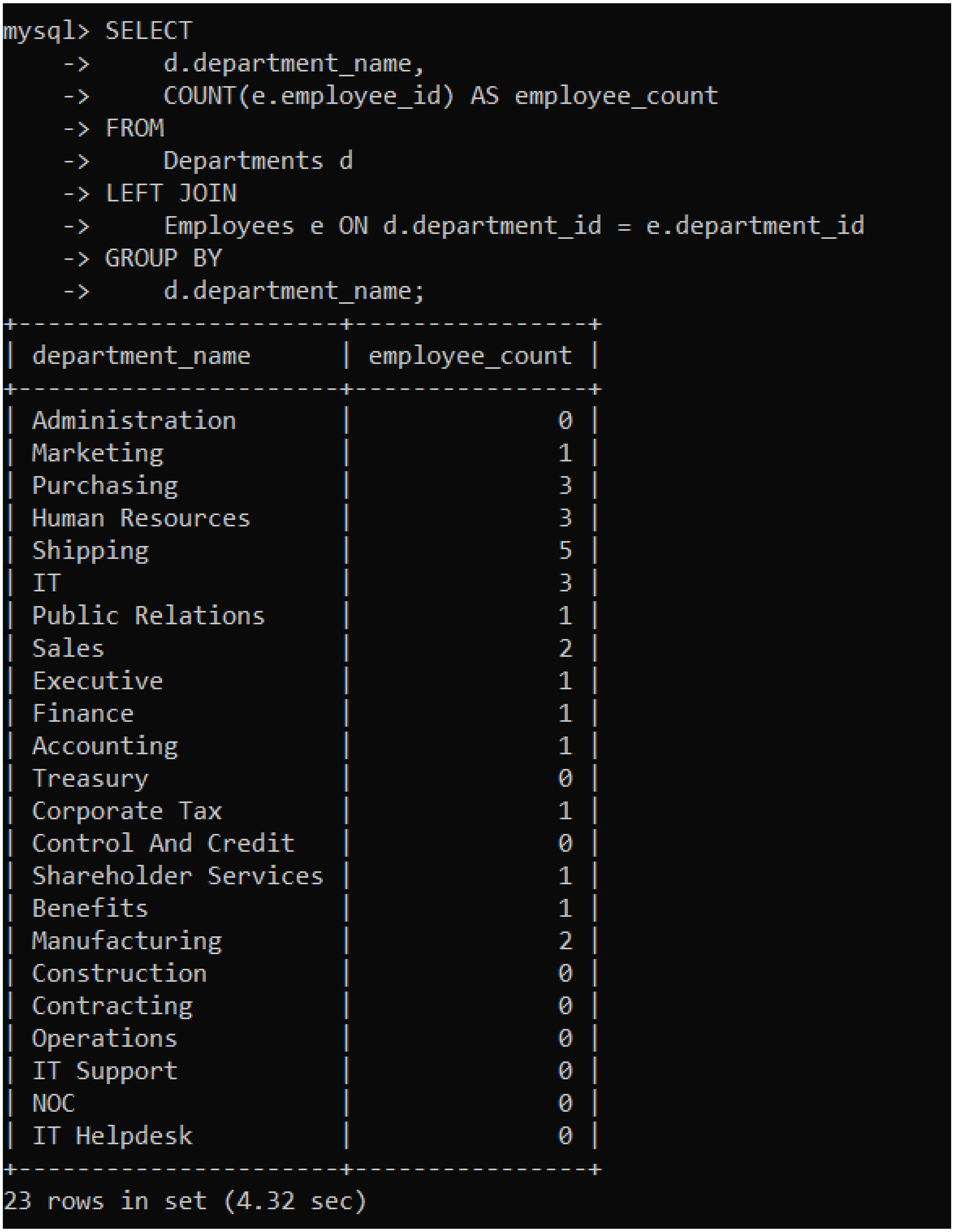
```
mysql> SELECT
    ->     e.employee_id AS EmployeeID,
    ->     e.first_name AS EmployeeFirstName,
    ->     e.last_name AS EmployeeLastName,
    ->     e.salary AS EmployeeSalary,
    ->     m.employee_id AS ManagerID,
    ->     m.first_name AS ManagerFirstName,
    ->     m.last_name AS ManagerLastName,
    ->     m.salary AS ManagerSalary
    -> FROM
    ->     Employees e
    -> LEFT JOIN
    ->     Employees m ON e.manager_id = m.employee_id;
+------------+-------------------+------------------+----------------+-----------+------------------+-----------------+---------------+
| EmployeeID | EmployeeFirstName | EmployeeLastName | EmployeeSalary | ManagerID | ManagerFirstName | ManagerLastName | ManagerSalary |
+------------+-------------------+------------------+----------------+-----------+------------------+-----------------+---------------+
|        101 | Neena             | Kochhar          |       17000.00 |      NULL | NULL             | NULL            |          NULL |
|        102 | Lex               | De Haan          |       17000.00 |      NULL | NULL             | NULL            |          NULL |
|        104 | Bruce             | Ernst            |        6000.00 |      NULL | NULL             | NULL            |          NULL |
|        105 | David             | Austin           |        4800.00 |      NULL | NULL             | NULL            |          NULL |
|        106 | Valli             | Pataballa        |        4800.00 |      NULL | NULL             | NULL            |          NULL |
|        107 | Diana             | Lorentz          |        4200.00 |      NULL | NULL             | NULL            |          NULL |
|        108 | Nancy             | Greenberg        |       12000.00 |       101 | Neena            | Kochhar         |      17000.00 |
|        109 | Daniel            | Faviet           |        9000.00 |       108 | Nancy            | Greenberg       |      12000.00 |
|        110 | John              | Chen             |        8200.00 |       108 | Nancy            | Greenberg       |      12000.00 |
|        111 | Ismael            | Sciarra          |        7700.00 |       108 | Nancy            | Greenberg       |      12000.00 |
|        112 | Jose Manuel       | Urman            |        7800.00 |      NULL | NULL             | NULL            |          NULL |
|        114 | Den               | Raphaely         |       11000.00 |      NULL | NULL             | NULL            |          NULL |
|        115 | Alexander         | Khoo             |        3100.00 |       114 | Den              | Raphaely        |      11000.00 |
|        116 | Shelli            | Baida            |        2900.00 |       114 | Den              | Raphaely        |      11000.00 |
|        117 | Sigal             | Tobias           |        2800.00 |       114 | Den              | Raphaely        |      11000.00 |
|        118 | Guy               | Himuro           |        2600.00 |       114 | Den              | Raphaely        |      11000.00 |
|        119 | Karen             | Colmenares       |        2500.00 |       114 | Den              | Raphaely        |      11000.00 |
|        120 | Matthew           | Weiss            |        8000.00 |      NULL | NULL             | NULL            |          NULL |
|        122 | Payam             | Kaufling         |        7900.00 |      NULL | NULL             | NULL            |          NULL |
|        123 | Shanta            | Vollman          |        6500.00 |      NULL | NULL             | NULL            |          NULL |
|        124 | Kevin             | Mourgos          |        5800.00 |      NULL | NULL             | NULL            |          NULL |
|        125 | Julia             | Nayer            |        3200.00 |       120 | Matthew          | Weiss           |       8000.00 |
|        126 | Irene             | Mikkilineni      |        2700.00 |       120 | Matthew          | Weiss           |       8000.00 |
|        127 | James             | Landry           |        2400.00 |       120 | Matthew          | Weiss           |       8000.00 |
|        128 | Steven            | Markle           |        2200.00 |       120 | Matthew          | Weiss           |       8000.00 |
|        130 | Mozhe             | Atkinson         |        2800.00 |      NULL | NULL             | 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)



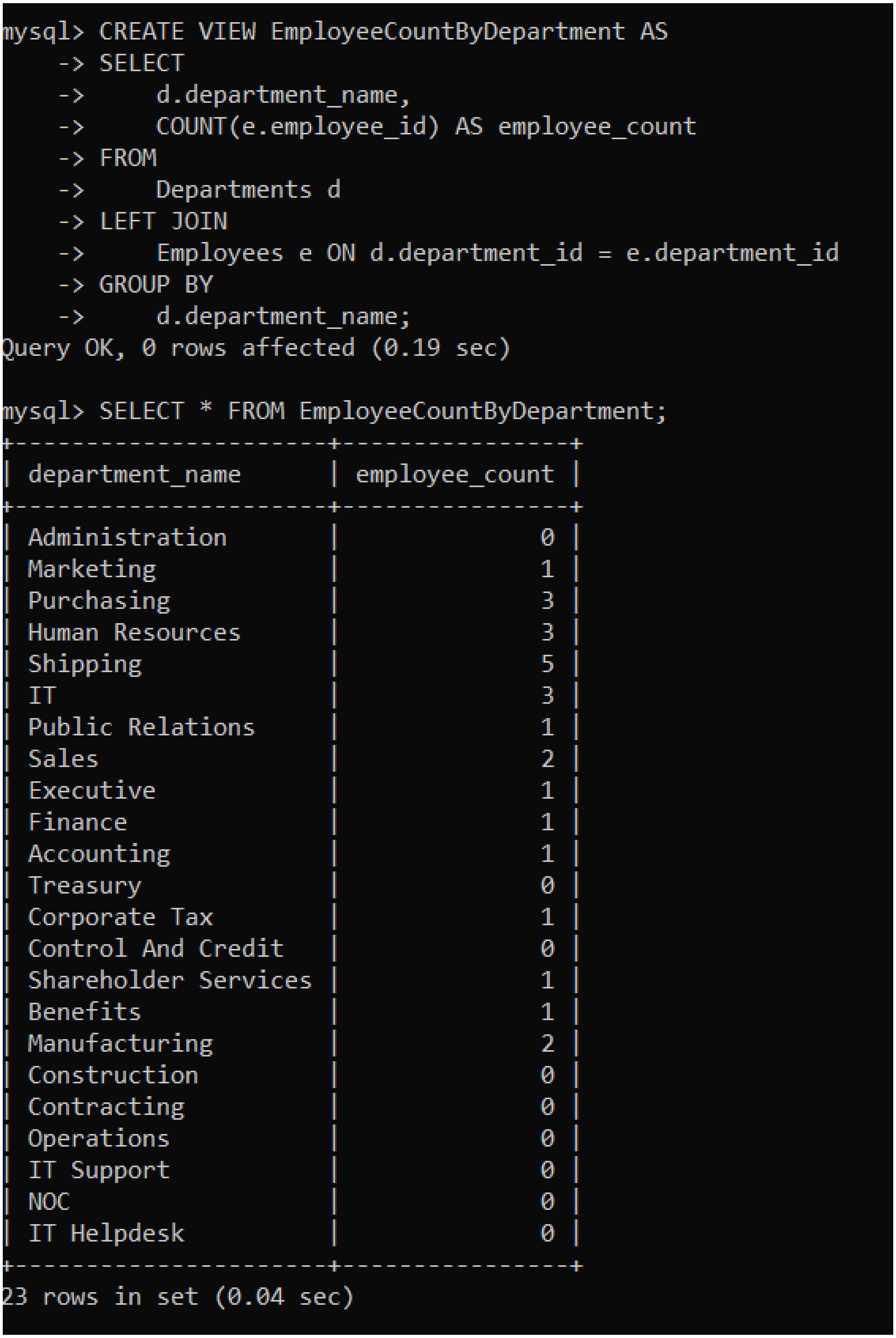
```
mysql> SELECT
    ->     e.employee_id AS EmployeeID,
    ->     e.first_name AS EmployeeFirstName,
    ->     e.last_name AS EmployeeLastName,
    ->     e.salary AS EmployeeSalary,
    ->     m.employee_id AS ManagerID,
    ->     m.first_name AS ManagerFirstName,
    ->     m.last_name AS ManagerLastName,
    ->     m.salary AS ManagerSalary
    -> FROM
    ->     Employees e
    -> JOIN
    ->     Employees m ON e.manager_id = m.employee_id;
+------------+-------------------+------------------+----------------+-----------+------------------+-----------------+---------------+
| EmployeeID | EmployeeFirstName | EmployeeLastName | EmployeeSalary | ManagerID | ManagerFirstName | ManagerLastName | ManagerSalary |
+------------+-------------------+------------------+----------------+-----------+------------------+-----------------+---------------+
|        108 | Nancy             | Greenberg        |       12000.00 |       101 | Neena            | Kochhar         |      17000.00 |
|        109 | Daniel            | Faviet           |        9000.00 |       108 | Nancy            | Greenberg       |      12000.00 |
|        110 | John              | Chen             |        8200.00 |       108 | Nancy            | Greenberg       |      12000.00 |
|        111 | Ismael            | Sciarra          |        7700.00 |       108 | Nancy            | Greenberg       |      12000.00 |
|        115 | Alexander         | Khoo             |        3100.00 |       114 | Den              | Raphaely        |      11000.00 |
|        116 | Shelli            | Baida            |        2900.00 |       114 | Den              | Raphaely        |      11000.00 |
|        117 | Sigal             | Tobias           |        2800.00 |       114 | Den              | Raphaely        |      11000.00 |
|        118 | Guy               | Himuro           |        2600.00 |       114 | Den              | Raphaely        |      11000.00 |
|        119 | Karen             | Colmenares       |        2500.00 |       114 | Den              | Raphaely        |      11000.00 |
|        125 | Julia             | Nayer            |        3200.00 |       120 | Matthew          | Weiss           |       8000.00 |
|        126 | Irene             | Mikkilineni      |        2700.00 |       120 | Matthew          | Weiss           |       8000.00 |
|        127 | James             | Landry           |        2400.00 |       120 | Matthew          | Weiss           |       8000.00 |
|        128 | Steven            | Markle           |        2200.00 |       120 | Matthew          | Weiss           |       8000.00 |
+------------+-------------------+------------------+----------------+-----------+------------------+-----------------+---------------+
13 rows in set (0.11 sec)
```

6. Find the count of employees in each department



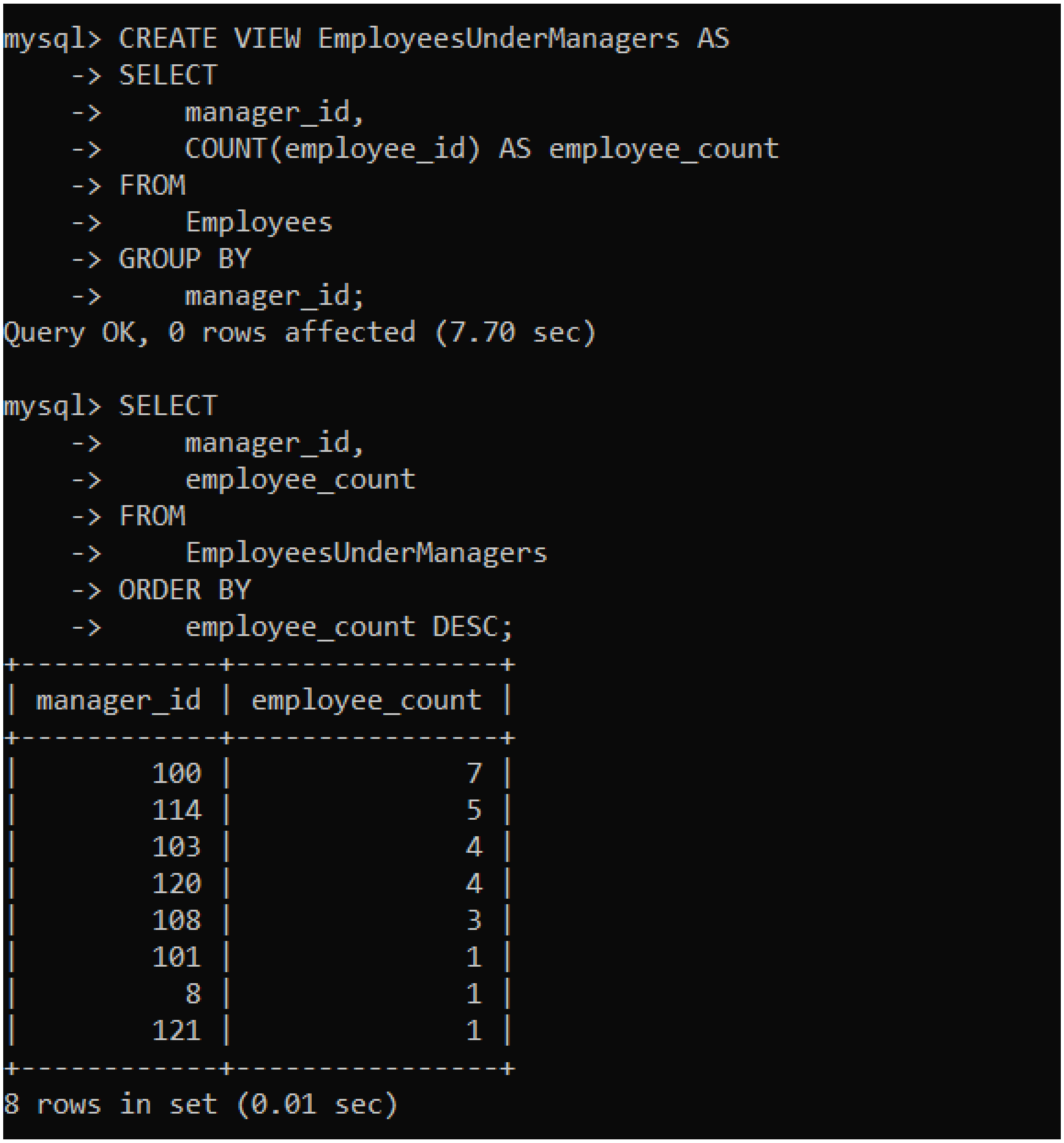
```
mysql> SELECT
    ->     d.department_name,
    ->     COUNT(e.employee_id) AS employee_count
    -> FROM
    ->     Departments d
    -> LEFT JOIN
    ->     Employees e ON d.department_id = e.department_id
    -> GROUP BY
    ->     d.department_name;
+----------------------+----------------+
| department_name      | employee_count |
+----------------------+----------------+
| Administration       |              0 |
| Marketing            |              1 |
| Purchasing           |              3 |
| Human Resources      |              3 |
| Shipping             |              5 |
| IT                   |              3 |
| Public Relations     |              1 |
| Sales                |              2 |
| Executive            |              1 |
| Finance              |              1 |
| Accounting           |              1 |
| Treasury             |              0 |
| Corporate Tax        |              1 |
| Control And Credit   |              0 |
| Shareholder Services |              1 |
| Benefits             |              1 |
| Manufacturing        |              2 |
| Construction         |              0 |
| Contracting          |              0 |
| Operations           |              0 |
| IT Support           |              0 |
| NOC                  |              0 |
| IT Helpdesk          |              0 |
+----------------------+----------------+
23 rows in set (4.32 sec)
```

7. Create a view for the above query



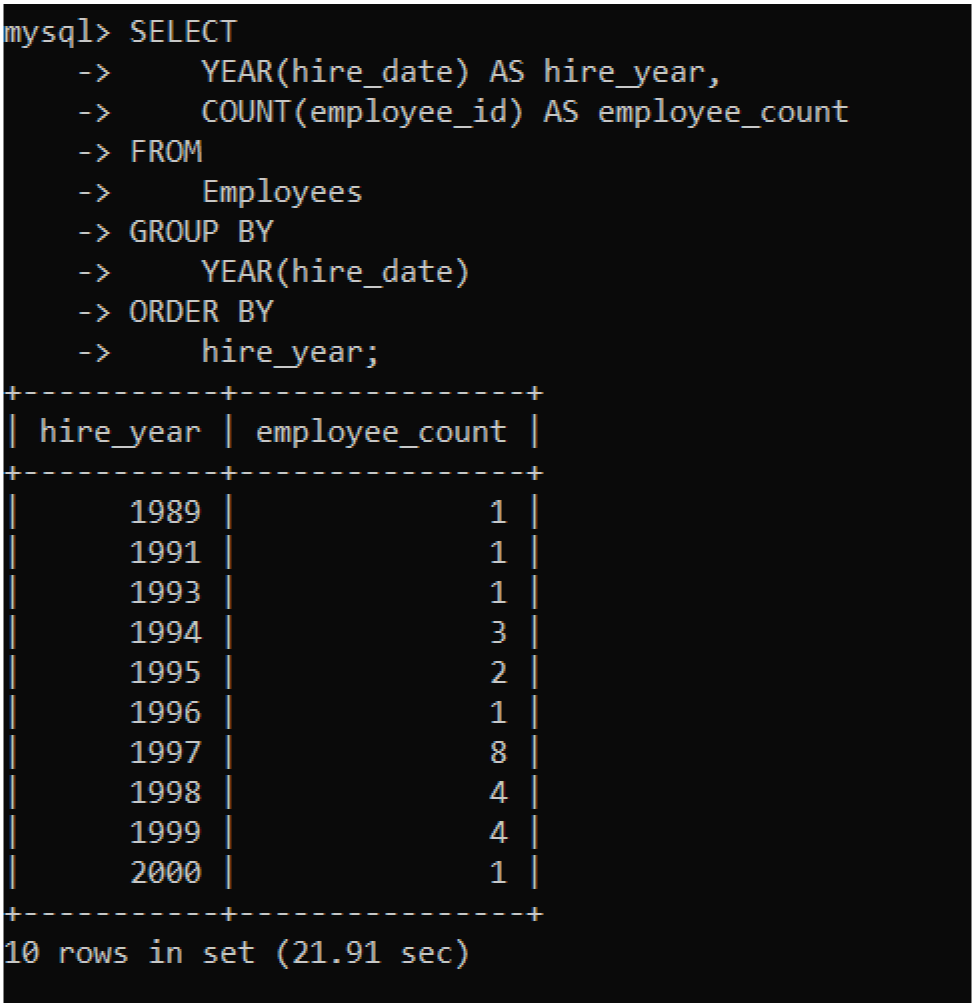
```
mysql> CREATE VIEW EmployeeCountByDepartment AS
    -> SELECT
    ->     d.department_name,
    ->     COUNT(e.employee_id) AS employee_count
    -> FROM
    ->     Departments d
    -> LEFT JOIN
    ->     Employees e ON d.department_id = e.department_id
    -> GROUP BY
    ->     d.department_name;
Query OK, 0 rows affected (0.19 sec)

mysql> SELECT * FROM EmployeeCountByDepartment;
+----------------------+----------------+
| department_name      | employee_count |
+----------------------+----------------+
| Administration       |              0 |
| Marketing            |              1 |
| Purchasing           |              3 |
| Human Resources      |              3 |
| Shipping             |              5 |
| IT                   |              3 |
| Public Relations     |              1 |
| Sales                |              2 |
| Executive            |              1 |
| Finance              |              1 |
| Accounting           |              1 |
| Treasury             |              0 |
| Corporate Tax        |              1 |
| Control And Credit   |              0 |
| Shareholder Services |              1 |
| Benefits             |              1 |
| Manufacturing        |              2 |
| Construction         |              0 |
| Contracting          |              0 |
| Operations           |              0 |
| IT Support           |              0 |
| NOC                  |              0 |
| IT Helpdesk          |              0 |
+----------------------+----------------+
23 rows in set (0.04 sec)
```

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



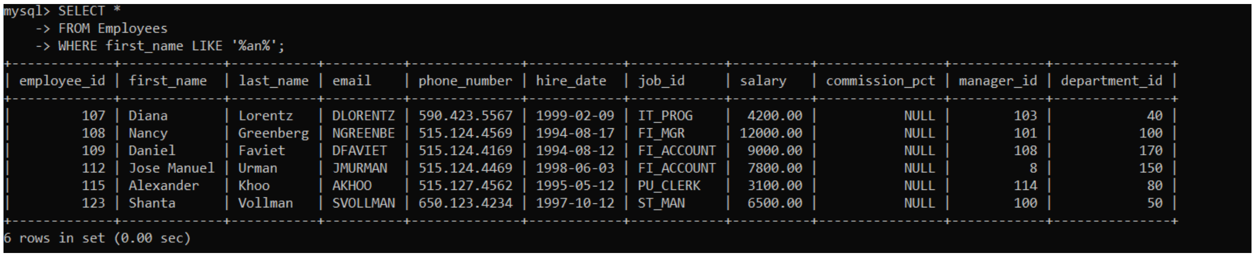
```
mysql> CREATE VIEW EmployeesUnderManagers AS
    -> SELECT
    ->     manager_id,
    ->     COUNT(employee_id) AS employee_count
    -> FROM
    ->     Employees
    -> GROUP BY
    ->     manager_id;
Query OK, 0 rows affected (7.70 sec)

mysql> SELECT
    ->     manager_id,
    ->     employee_count
    -> FROM
    ->     EmployeesUnderManagers
    -> ORDER BY
    ->     employee_count DESC;
+------------+----------------+
| manager_id | employee_count |
+------------+----------------+
|        100 |              7 |
|        114 |              5 |
|        103 |              4 |
|        120 |              4 |
|        108 |              3 |
|        101 |              1 |
|          8 |              1 |
|        121 |              1 |
+------------+----------------+
8 rows in set (0.01 sec)
```

9. Get the count of employees hired year wise



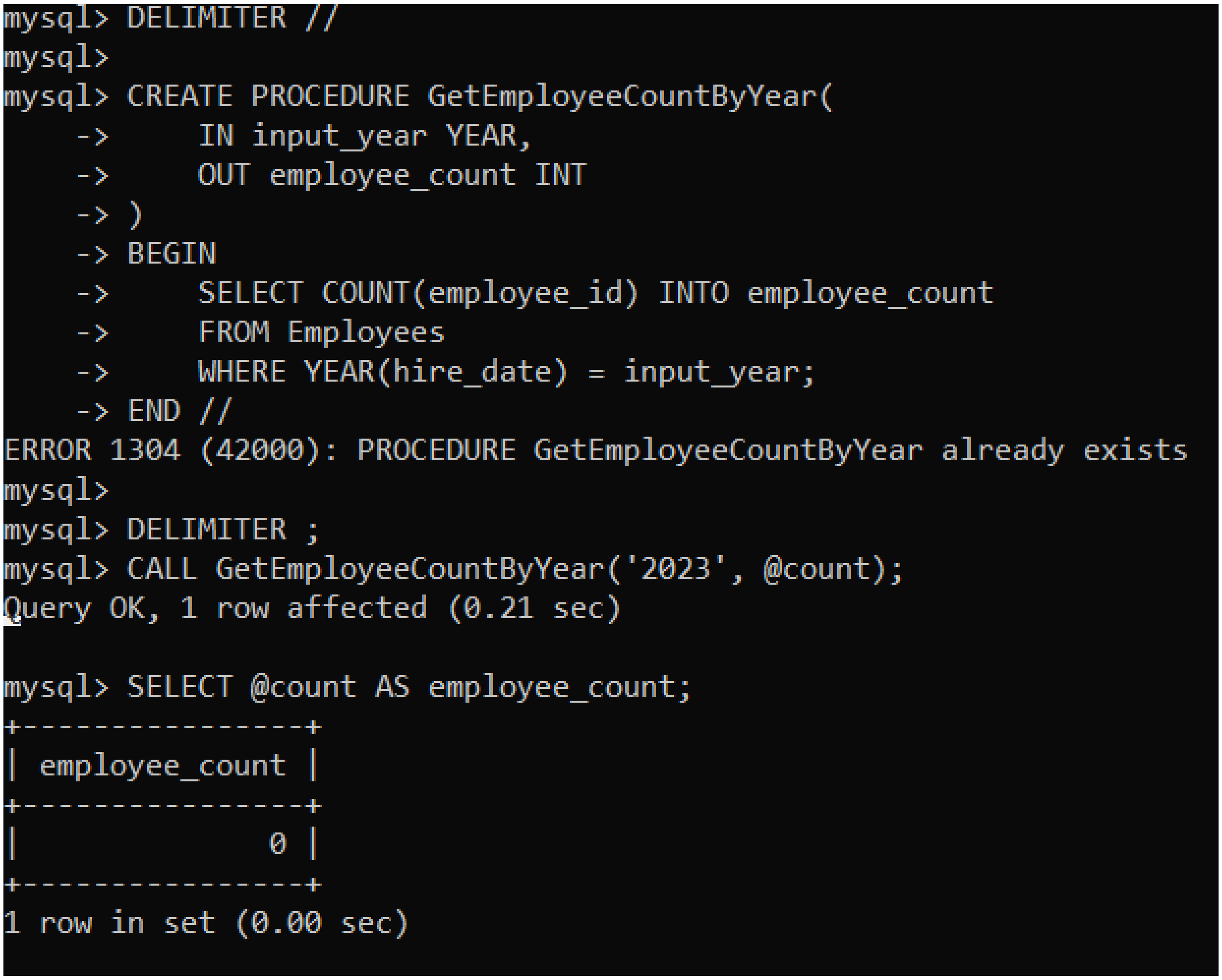
```
mysql> SELECT
    ->     YEAR(hire_date) AS hire_year,
    ->     COUNT(employee_id) AS employee_count
    -> FROM
    ->     Employees
    -> GROUP BY
    ->     YEAR(hire_date)
    -> ORDER BY
    ->     hire_year;
+-----------+----------------+
| hire_year | employee_count |
+-----------+----------------+
|      1989 |              1 |
|      1991 |              1 |
|      1993 |              1 |
|      1994 |              3 |
|      1995 |              2 |
|      1996 |              1 |
|      1997 |              8 |
|      1998 |              4 |
|      1999 |              4 |
|      2000 |              1 |
+-----------+----------------+
10 rows in set (21.91 sec)
```

10.Select the employees whose first_name contains “an”



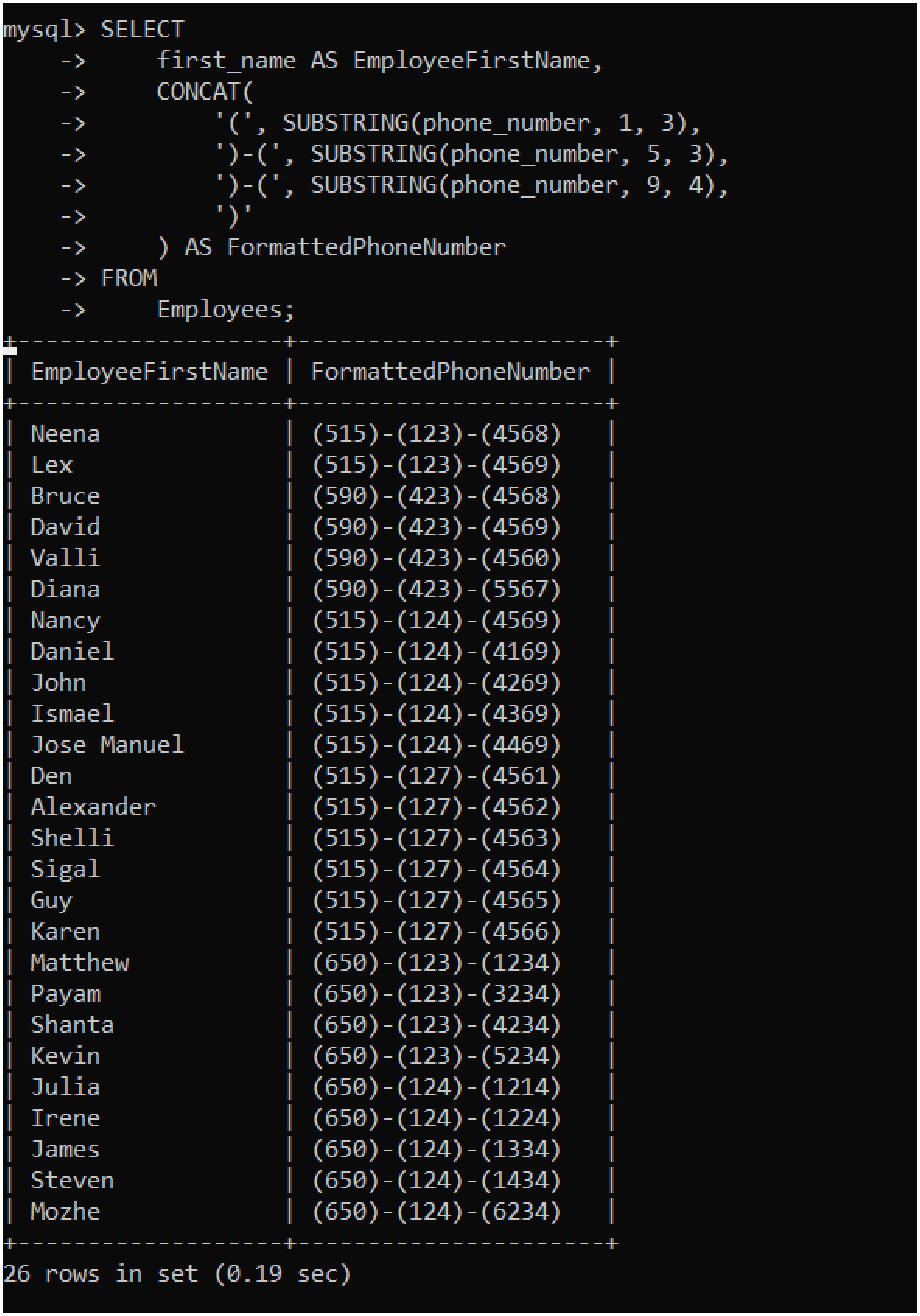
```
mysql> SELECT *
    -> FROM Employees
    -> WHERE first_name LIKE '%an%';
+-------------+-------------+-----------+----------+--------------+------------+------------+----------+----------------+------------+---------------+
| employee_id | first_name  | last_name | email    | phone_number | hire_date  | job_id     | salary   | commission_pct | manager_id | department_id |
+-------------+-------------+-----------+----------+--------------+------------+------------+----------+----------------+------------+---------------+
|         107 | Diana       | Lorentz   | DLORENTZ | 590.423.5567 | 1999-02-09 | IT_PROG    |  4200.00 |           NULL |        103 |            40 |
|         108 | Nancy       | Greenberg | NGREENBE | 515.124.4569 | 1994-08-17 | FI_MGR     | 12000.00 |           NULL |        101 |           100 |
|         109 | Daniel      | Faviet    | DFAVIET  | 515.124.4169 | 1994-08-12 | FI_ACCOUNT |  9000.00 |           NULL |        108 |           170 |
|         112 | Jose Manuel | Urman     | JMURMAN  | 515.124.4469 | 1998-06-03 | FI_ACCOUNT |  7800.00 |           NULL |          8 |           150 |
|         115 | Alexander   | Khoo      | AKHOO    | 515.127.4562 | 1995-05-12 | PU_CLERK   |  3100.00 |           NULL |        114 |            80 |
|         123 | Shanta      | Vollman   | SVOLLMAN | 650.123.4234 | 1997-10-12 | ST_MAN     |  6500.00 |           NULL |        100 |            50 |
+-------------+-------------+-----------+----------+--------------+------------+------------+----------+----------------+------------+---------------+
6 rows in set (0.00 sec)
```

11.create a stored procedure to get the “ Get the count of employees hired in the input year”(IN year , OUT count)



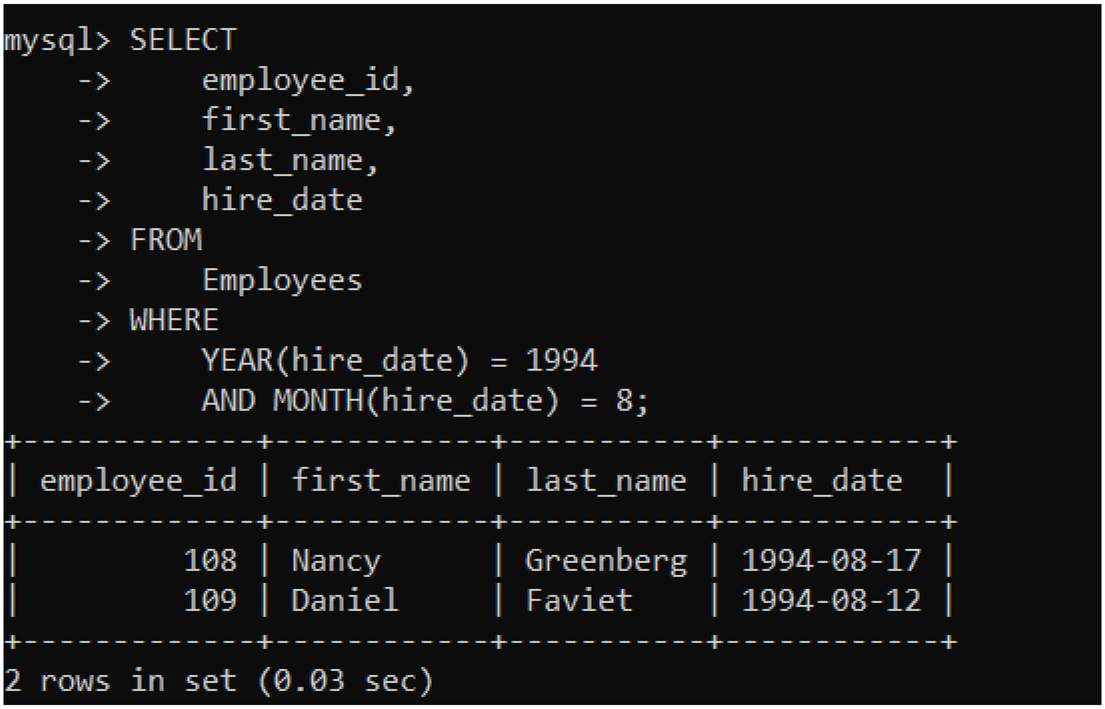
```
mysql> DELIMITER //
mysql>
mysql> CREATE PROCEDURE GetEmployeeCountByYear(
    ->     IN input_year YEAR,
    ->     OUT employee_count INT
    -> )
    -> BEGIN
    ->     SELECT COUNT(employee_id) INTO employee_count
    ->     FROM Employees
    ->     WHERE YEAR(hire_date) = input_year;
    -> END //
ERROR 1304 (42000): PROCEDURE GetEmployeeCountByYear already exists
mysql>
mysql> DELIMITER ;
mysql> CALL GetEmployeeCountByYear('2023', @count);
Query OK, 1 row affected (0.21 sec)

mysql> SELECT @count AS employee_count;
+----------------+
| employee_count |
+----------------+
|              0 |
+----------------+
1 row in set (0.00 sec)
```

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



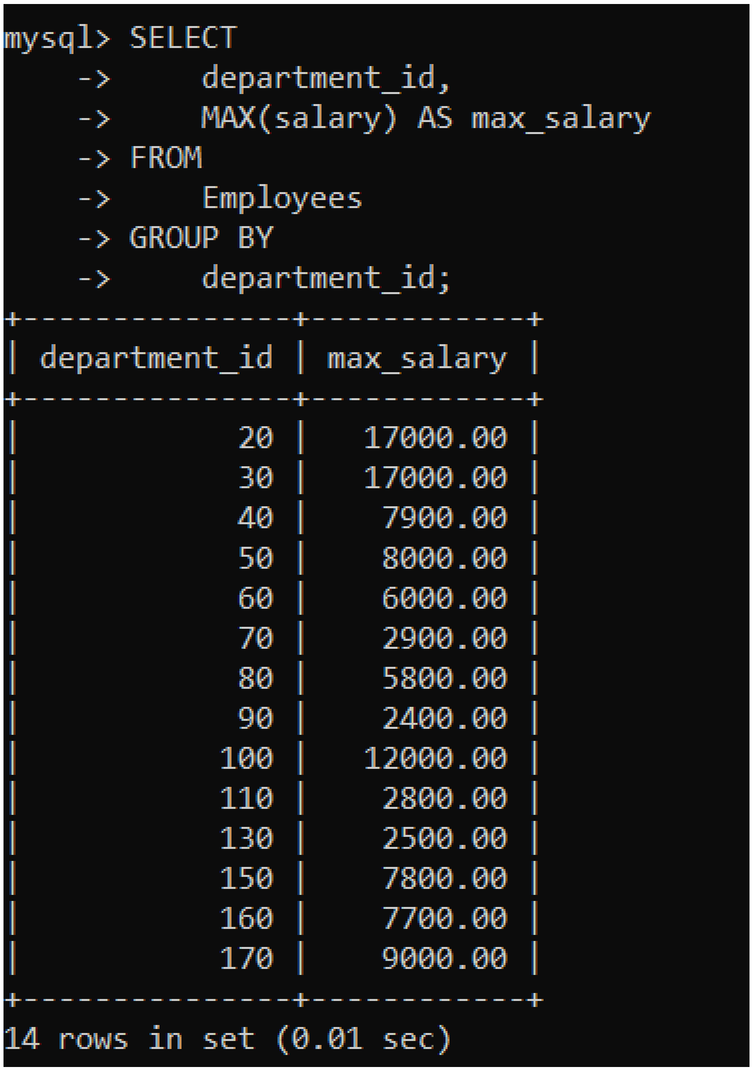
```
mysql> SELECT
    ->     first_name AS EmployeeFirstName,
    ->     CONCAT(
    ->         '(', SUBSTRING(phone_number, 1, 3),
    ->         ')-(', SUBSTRING(phone_number, 5, 3),
    ->         ')-(', SUBSTRING(phone_number, 9, 4),
    ->         ')'
    ->     ) AS FormattedPhoneNumber
    -> FROM
    ->     Employees;
+-------------------+----------------------+
| EmployeeFirstName | FormattedPhoneNumber |
+-------------------+----------------------+
| Neena             | (515)-(123)-(4568)   |
| Lex               | (515)-(123)-(4569)   |
| Bruce             | (590)-(423)-(4568)   |
| David             | (590)-(423)-(4569)   |
| Valli             | (590)-(423)-(4560)   |
| Diana             | (590)-(423)-(5567)   |
| Nancy             | (515)-(124)-(4569)   |
| Daniel            | (515)-(124)-(4169)   |
| John              | (515)-(124)-(4269)   |
| Ismael            | (515)-(124)-(4369)   |
| Jose Manuel       | (515)-(124)-(4469)   |
| Den               | (515)-(127)-(4561)   |
| Alexander         | (515)-(127)-(4562)   |
| Shelli            | (515)-(127)-(4563)   |
| Sigal             | (515)-(127)-(4564)   |
| Guy               | (515)-(127)-(4565)   |
| Karen             | (515)-(127)-(4566)   |
| Matthew           | (650)-(123)-(1234)   |
| Payam             | (650)-(123)-(3234)   |
| Shanta            | (650)-(123)-(4234)   |
| Kevin             | (650)-(123)-(5234)   |
| Julia             | (650)-(124)-(1214)   |
| Irene             | (650)-(124)-(1224)   |
| James             | (650)-(124)-(1334)   |
| Steven            | (650)-(124)-(1434)   |
| Mozhe             | (650)-(124)-(6234)   |
+-------------------+----------------------+
26 rows in set (0.19 sec)
```

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



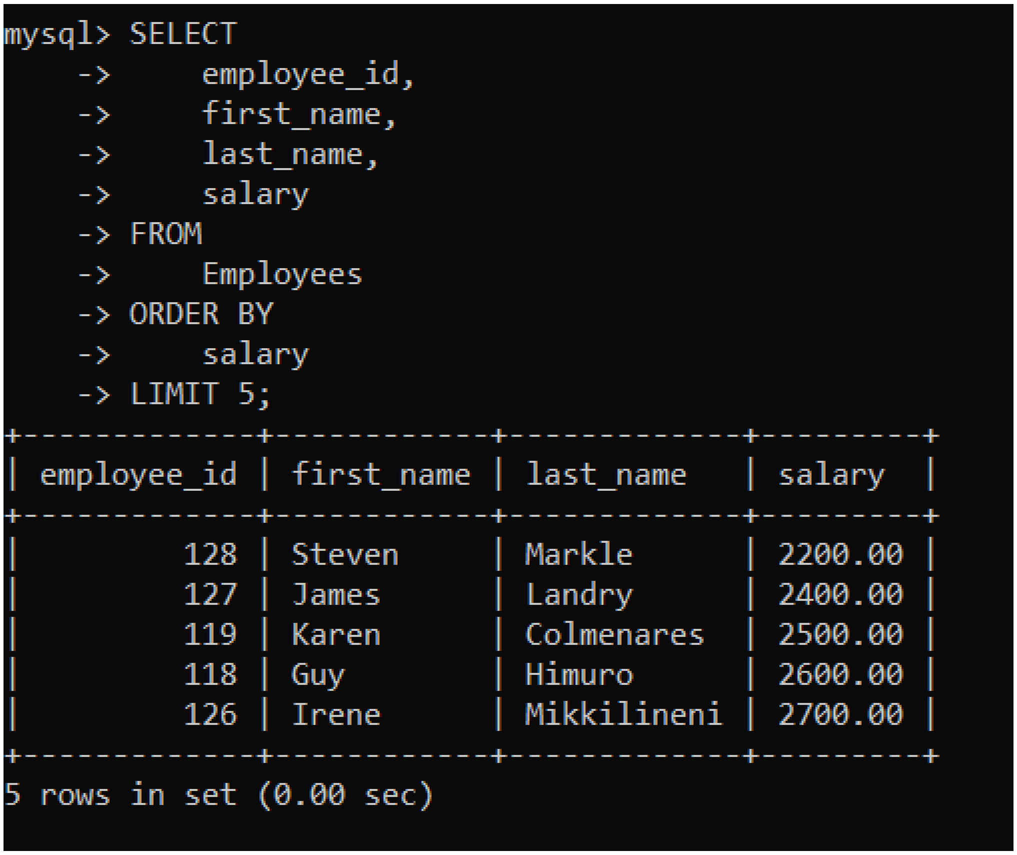
```
mysql> SELECT
    ->     employee_id,
    ->     first_name,
    ->     last_name,
    ->     hire_date
    -> FROM
    ->     Employees
    -> WHERE
    ->     YEAR(hire_date) = 1994
    ->     AND MONTH(hire_date) = 8;
+-------------+------------+-----------+------------+
| employee_id | first_name | last_name | hire_date  |
+-------------+------------+-----------+------------+
|         108 | Nancy      | Greenberg | 1994-08-17 |
|         109 | Daniel     | Faviet    | 1994-08-12 |
+-------------+------------+-----------+------------+
2 rows in set (0.03 sec)
```

14. Find the maximum salary from each department.



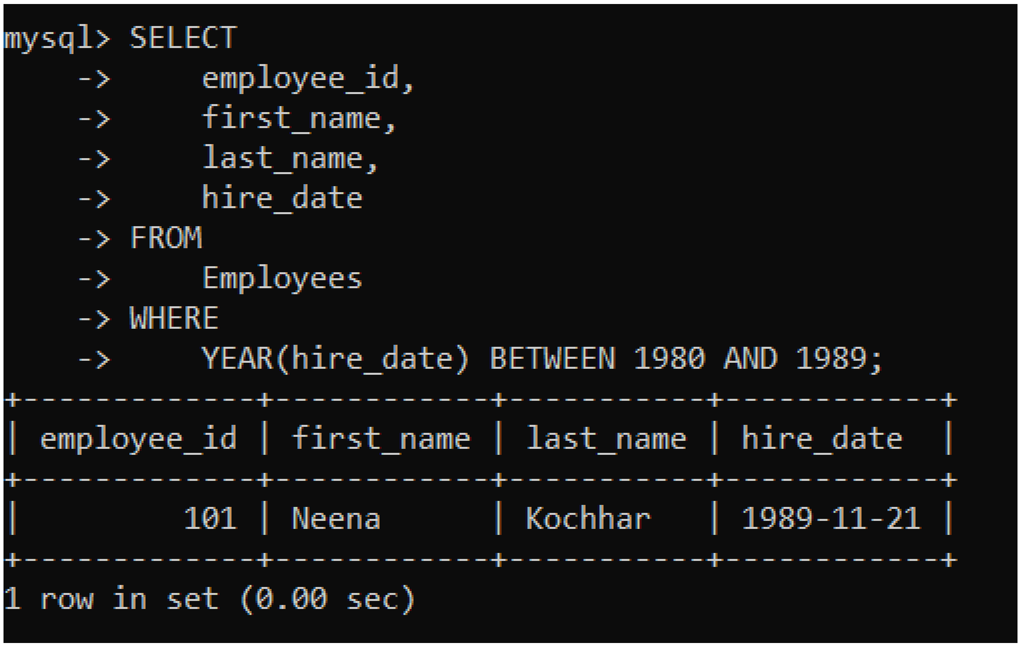
```
mysql> SELECT
    ->     department_id,
    ->     MAX(salary) AS max_salary
    -> FROM
    ->     Employees
    -> GROUP BY
    ->     department_id;
+---------------+------------+
| department_id | max_salary |
+---------------+------------+
|            20 |   17000.00 |
|            30 |   17000.00 |
|            40 |    7900.00 |
|            50 |    8000.00 |
|            60 |    6000.00 |
|            70 |    2900.00 |
|            80 |    5800.00 |
|            90 |    2400.00 |
|           100 |   12000.00 |
|           110 |    2800.00 |
|           130 |    2500.00 |
|           150 |    7800.00 |
|           160 |    7700.00 |
|           170 |    9000.00 |
+---------------+------------+
14 rows in set (0.01 sec)
```

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



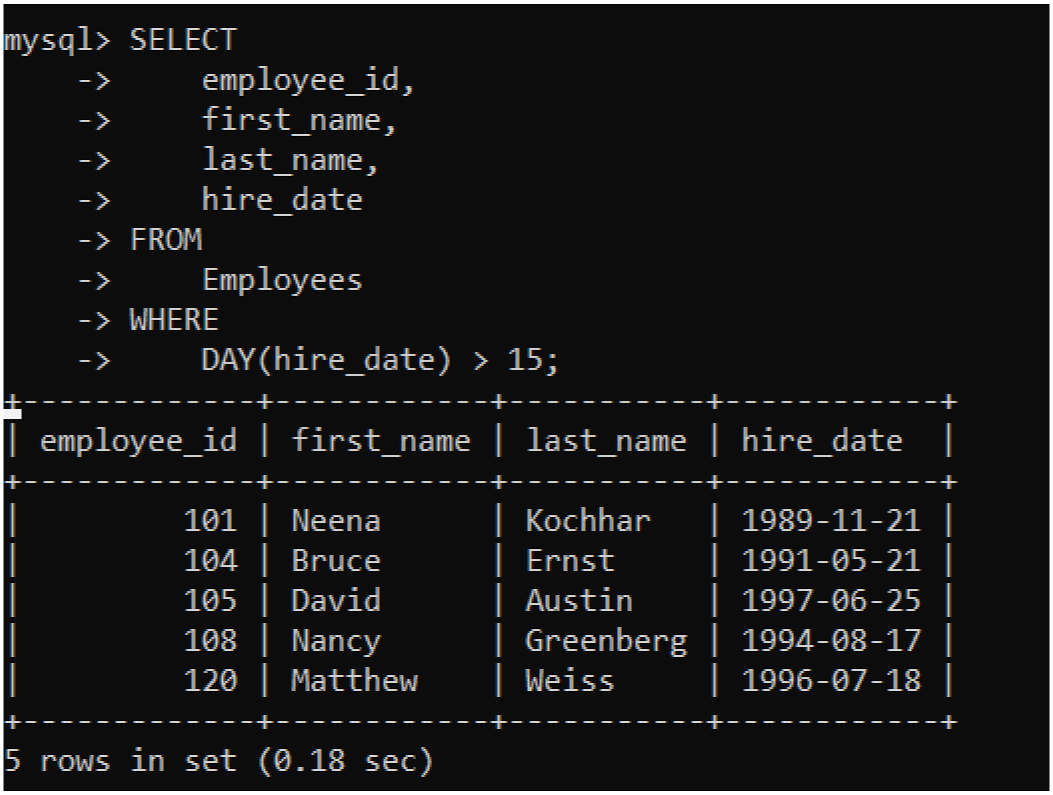
```
mysql> SELECT
    ->     employee_id,
    ->     first_name,
    ->     last_name,
    ->     salary
    -> FROM
    ->     Employees
    -> ORDER BY
    ->     salary
    -> LIMIT 5;
+-------------+------------+-------------+---------+
| employee_id | first_name | last_name   | salary  |
+-------------+------------+-------------+---------+
|         128 | Steven     | Markle      | 2200.00 |
|         127 | James      | Landry      | 2400.00 |
|         119 | Karen      | Colmenares  | 2500.00 |
|         118 | Guy        | Himuro      | 2600.00 |
|         126 | Irene      | Mikkilineni | 2700.00 |
+-------------+------------+-------------+---------+
5 rows in set (0.00 sec)
```

16. Find the employees hired in the 80s



```
mysql> SELECT
    ->     employee_id,
    ->     first_name,
    ->     last_name,
    ->     hire_date
    -> FROM
    ->     Employees
    -> WHERE
    ->     YEAR(hire_date) BETWEEN 1980 AND 1989;
+-------------+------------+-----------+------------+
| employee_id | first_name | last_name | hire_date  |
+-------------+------------+-----------+------------+
|         101 | Neena      | Kochhar   | 1989-11-21 |
+-------------+------------+-----------+------------+
1 row in set (0.00 sec)
```

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



```
mysql> SELECT
    ->     employee_id,
    ->     first_name,
    ->     last_name,
    ->     hire_date
    -> FROM
    ->     Employees
    -> WHERE
    ->     DAY(hire_date) > 15;
+-------------+------------+-----------+------------+
| employee_id | first_name | last_name | hire_date  |
+-------------+------------+-----------+------------+
|         101 | Neena      | Kochhar   | 1989-11-21 |
|         104 | Bruce      | Ernst     | 1991-05-21 |
|         105 | David      | Austin    | 1997-06-25 |
|         108 | Nancy      | Greenberg | 1994-08-17 |
|         120 | Matthew    | Weiss     | 1996-07-18 |
+-------------+------------+-----------+------------+
5 rows in set (0.18 sec)
```