Assignment 2

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);
## Insert into Employees table
; 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' ,
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'590.423.4568' , '1991-05-21', 'IT PROG' , 6000 , NULL , 103 , 60);

```
'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);
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INSERT INTO employees VALUES (105 , 'David' , 'Austin' , 'DAUSTIN' ,

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'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);
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INSERT INTO employees VALUES (115 , 'Alexander' , 'Khoo' , 'AKHOO' ,

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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

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

```
mysql> select * from employees where salary = (select max(salary) from employees);

| Employee_id | Firstname | Lastname | 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 | NULL | 100 | 20 |

| 102 | Lex | De Haan | LDEHAAN | 515.123.4569 | 1993-09-12 | AD_VP | 17000 | NULL | 100 | 30 |

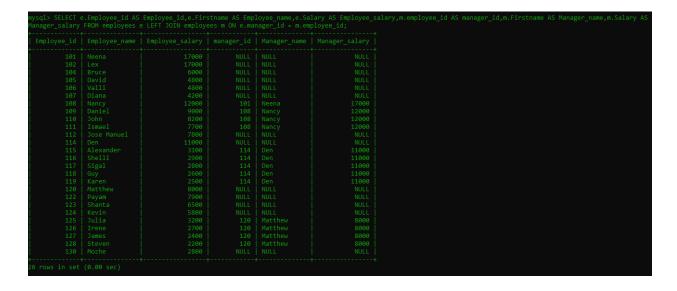
2 rows in set (0.01 sec)
```

3. Select employee with the second highest salary

mysql> select * from employees where salary = (select max(salary) from employees where salary < (select max(salary) from employees));										
T										
108	Nancy	Greenberg		515.124.4569	1994-08-17 	FI_MGR	12000			100
1 row in set (0.02 sec)										

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

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

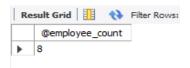
9. Get the count of employees hired year wise

```
mysql> select year(Hire_date) as Hire_year, count(*) as Employee_count from employees group by Hire_year order by hire_year;

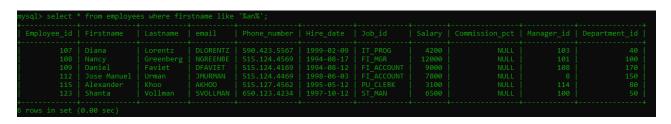
| Hire_year | Employee_count |
| 1989 | 1 |
| 1991 | 1 |
| 1993 | 1 |
| 1994 | 3 |
| 1995 | 2 |
| 1996 | 1 |
| 1997 | 8 |
| 1998 | 4 |
| 1999 | 4 |
| 2000 | 1 |
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```

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

Output:-



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

```
mysql> select firstname, hire_date from employees where day(hire_date) > '15';
+-----+
| firstname | hire_date |
+-----+
| Neena | 1989-11-21 |
| Bruce | 1991-05-21 |
| David | 1997-06-25 |
| Nancy | 1994-08-17 |
| Matthew | 1996-07-18 |
+-----+
5 rows in set (0.01 sec)
```

By Ismailichu