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 );
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```
INSERT INTO departments VALUES ( 90 , 'Executive', 1700);

INSERT INTO departments VALUES ( 100 , 'Finance', 1700);

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);
```

employees table

```
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 ,

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'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' ,
```

INSERT INTO employees VALUES (110 , 'John' , 'Chen' , 'JCHEN' ,

```
'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%';
                                                   Export: Wrap Cell Content: IA
       first_name last_name job_id
                                         salary
          Steven
                               AD_PRES
                                         24000.00
                    King
                              PU_CLERK
                    Baida
                                         2900.00
                    Tobias
                              PU_CLERK
                                         2800.00
          Sigal
          Shanta
                    Vollman
                              ST_MAN
                                         6500.00
                              ST_CLERK
          Steven
                    Markle
                                         2200.00
```

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



3. Select employee with the second highest salary.

SELECT first_name, last_name, job_id, salary

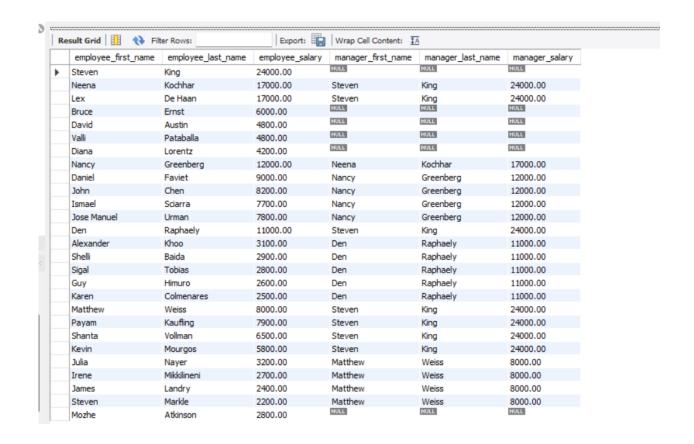
```
SELECT first_name, last_name, job_id, salary
FROM employees

WHERE salary = (
    SELECT MAX(salary)
    FROM employees
    WHERE salary < (SELECT MAX(salary) FROM employees)

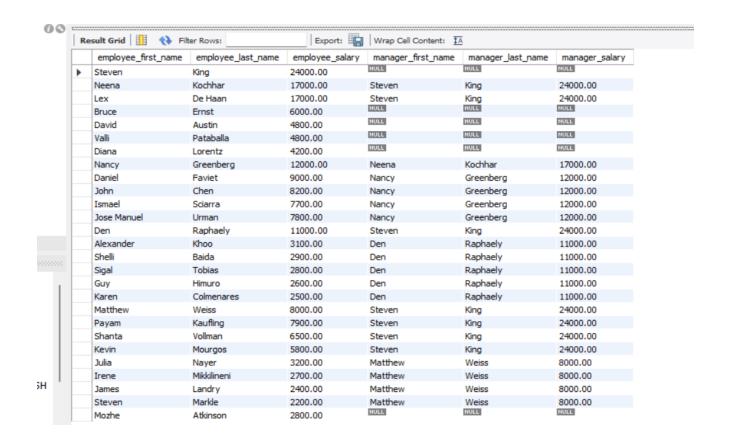
');</pre>
```



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.

```
SELECT e.first_name AS employee_first_name,
    e.last_name AS employee_last_name,
    e.salary AS employee_salary,
    m.first_name AS manager_first_name,
    m.last_name AS manager_last_name,
    m.salary AS manager_salary

FROM employees e

LEFT JOIN employees m

ON e.manager_id = m.employee_id;

SELECT * FROM employee_manager_view;
```

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

```
SELECT manager_first_name, manager_last_name, COUNT(employee_first_name) AS employee_count
FROM employee_manager_view
WHERE manager_first_name IS NOT NULL
GROUP BY manager_first_name, manager_last_name
ORDER BY employee_count DESC;
```



8. Find the count of employees in each department.

```
SELECT d.department_name, COUNT(e.employee_id) AS employee_count
FROM departments d

JOIN employees e ON d.department_id = e.department_id

GROUP BY d.department_name;
```

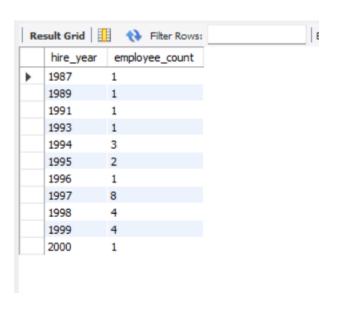
	department_name	employee_count
١	Marketing	2
	Purchasing	3
	Human Resources	3
	Shipping	5
	Π	3
	Public Relations	1
	Sales	2
	Executive	1
	Finance	1
	Accounting	1
	Corporate Tax	1
	Shareholder Servi	1
	Benefits	1
	Payroll	2

9. Get the count of employees hired year wise.

```
SELECT YEAR(hire_date) AS hire_year, COUNT(employee_id) AS employee_count FROM employees

GROUP BY YEAR(hire_date)

ORDER BY hire_year;
```

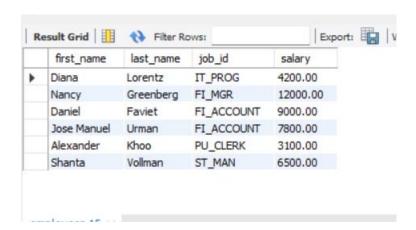


10 . create a stored procedure to get the " \mbox{Get} the count of employees hired in the input year"(IN year , OUT count).

```
DELIMITER //
```

11. Select the employees whose first_name contains "an".

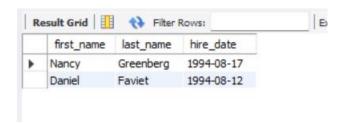
```
SELECT first_name, last_name, job_id, salary
FROM employees
WHERE first_name LIKE '%an%';
```





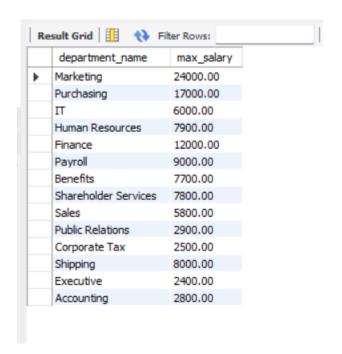
13. Find the employees who joined in August, 1994.

```
SELECT first_name, last_name, hire_date
FROM employees
WHERE MONTH(hire_date) = 8
AND YEAR(hire_date) = 1994;
```



14. Find the maximum salary from each department.

```
SELECT d.department_name, MAX(e.salary) AS max_salary
FROM departments d
JOIN employees e ON d.department_id = e.department_id
GROUP BY d.department_name;
```



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

```
SELECT first_name, last_name, salary
FROM employees
ORDER BY salary ASC
LIMIT 5;
```



16. Find the employees hired in the 80s.

```
SELECT first_name, last_name, hire_date
FROM employees
WHERE YEAR(hire_date) BETWEEN 1980 AND 1989;
```



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

```
SELECT first_name, last_name, hire_date
FROM employees
WHERE DAY(hire_date) > 15;
```

