## TASK -2

1. Select employees first name, last name, job\_id and salary whose first name starts with alphabet S.

<pre>mysql&gt; mysql&gt; select first_name,last_name,job_id,salary     -&gt; from employees     -&gt; where first_name like 'S%'; +</pre>									
first_name		job_id							
Steven   Shelli   Sigal   Shanta   Steven		AD_PRES PU_CLERK PU_CLERK ST_MAN ST_CLERK	24000   2900   2800   6500   2200						
5 rows in set	(0.00 sec)								

**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);										
I	Employee_id	first_name	last_name	email	phone_number	hire_date	job_id	salary	commission_pct	manager_id	department_id
ľ	100	Steven	King	SKING	515.123.4567	1987-06-17	AD_PRES	24000	NULL	NULL	20
	l row in set (	0.01 sec)					+				

3. Select employee with the second highest salary

```
from employees
     where salary =
( select MAX(salary)
        from employees
                        ( 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 |
                                                                                                                                                     20
30
                              Kochhar
                                           NKOCHHAR
                                                       515.123.4568
                                                                       1989-11-21
                                                                                     AD_VP
                                                                                                17000
                                                                                                         NULL
                                                                                                                                   100
100
                                                       515.123.4569
                                                                                     AD_VP
                                                                                                17000
         102
               Lex
                             De Haan
                                          LDEHAAN
                                                                       1993-09-12
                                                                                                         NULL
rows in set (0.01 sec)
```

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

Emp_Name	Manager	Salary
Steven	NULL	NULL
Neena	Steven	24000
Lex	Steven	24000
Alexander	Lex	17000
Bruce	Alexander	9000
David	Alexander	9000
Valli	Alexander	9000
Diana	Alexander	9000
Nancy	Neena	17000
Daniel	Nancy	12000
John	Nancy	12000
Ismael	Nancy	12000
Jose Manuel	Nancy	12000
Luis	Nancy	12000
Den	Steven	24000
Alexander	Den	11000
Shelli	Den	11000
Sigal	Den	11000
Guy	Den	11000
Karen	Den	11000
Matthew	Steven	24000
Adam	Steven	24000
Payam	Steven	24000
Shanta	Steven	24000
Kevin	Steven	24000
Julia	Matthew	8000
Irene	Matthew	8000
James	Matthew	8000
Steven	Matthew	8000
Laura	Adam	8200
Mozhe	Adam	8200

**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)

```
mysql>
mysql> select Manager, COUNT(Emp_id) as Emp_Count
    -> from empdetls
    -> group by Manager
    -> order by Emp_Count desc;
            | Emp_Count |
 Manager
 Steven
                      8
 Nancy
                      5
 Den
 Alexander
 Matthew
 Adam
                      2
                      1
 Lex
                      1
 Neena
 rows in set (0.00 sec)
```

8. Find the count of employees in each department

```
mysql>
mysql> select Department_name,COUNT(employee_id) as "Emp_Count"
     -> from Departments d
     -> left join employees e on d.Department_id = e.department_id
-> group by d.Department_id, Department_name
-> order by Emp_Count desc;
  Department_name
                                  Emp_Count |
  Shipping
  Purchasing
  Human Resources
  Marketing
  Sales
   Payroll
  Public Relations
Executive
  Finance
  Accounting
Corporate Tax
  Control And Credit
Shareholder Services
  Benefits
  Treasury
16 rows in set (0.01 sec)
```

9. Get the count of employees hired year wise

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

```
nysql> DELIMITER //
nysql> CREATE PROCEDURE GetEmployeeCountByYear
   ->
           IN inputYear INT,
          OUT employeeCount INT
   ->
   -> )
   -> BEGIN
           SELECT COUNT(*) INTO employeeCount
   ->
   ->
           FROM employees
   ->
          WHERE YEAR(hire_date) = inputYear;
   -> END //
Query OK, 0 rows affected (0.01 sec)
mysql> DELIMITER ;
mysql>
```

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.

```
L> Setect **
-> from employees
-> where MONTH(hire_date) = 8
-> and YEAR(hire_date) = 1994;
Employee_id | first_name | last_name | email
                                                                         | phone_number
                                                                                               | hire_date
                                                                                                                  | job_id
                                                                                                                                      | salary | commission_pct | manager_id | department_id |
                                                          NGREENBE
DFAVIET
                                                                          515.124.4569
515.124.4169
                                                                                                                                                     NULL
NULL
                                                                                                                                                                                                                  100
170
                    Nancy
Daniel
                                                                                                 1994-08-17
1994-08-12
                                                                                                                     FI_MGR
FI_ACCOUNT
                                                                                                                                          12000
9000
                                                                                                                                                                                          101
108
            108
109
rows in set (0.00 sec)
```

**14.**Find the maximum salary from each department.

```
mysql> select Department_name, Max(salary) as 'Salary'
    -> from Departments d
    -> inner join employees e on d.Department_id = e.department_id
    -> group by Department_name;
 Department_name
                         Salary
 Marketing
                           24000
 Purchasing
                           17000
                            9000
 Human Resources
                            7900
 Finance
                           12000
 Payroll
                            9000
 Benefits
                            7700
 Shareholder Services
                            7800
 Control And Credit
                            6900
                            5800
 Sales
 Public Relations
                            2900
 Corporate Tax
                            2500
 Shipping
                            8200
 Executive
                            2400
 Accounting
                            2800
15 rows in set (0.00 sec)
```

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

-> from emp -> order by -> LIMIT 5	/ salary									
Employee_id	first_name	last_name	email	phone_number	hire_date	job_id	salary	commission_pct	manager_id	department_id
128	Steven	Markle	SMARKLE	650.124.1434	2000-03-04	ST_CLERK	2200	NULL	120	50
127	James	Landry	JLANDRY	650.124.1334	1999-01-02	ST_CLERK	2400	NULL	120	90
119	Karen	Colmenares	KCOLMENA	515.127.4566	1999-04-08	PU_CLERK	2500	NULL	114	130
118	Guy	Himuro	GHIMURO	515.127.4565	1998-01-02	PU_CLERK	2600	NULL	114	60
126	Irene	Mikkilineni	IMIKKILI	650.124.1224	1998-11-12	ST_CLERK	2700	NULL	120	50

**16.**Find the employees hired in the 80s

```
mysqt>
mysqt
my
```

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

	AY(hire_date):	+	+		+	+			·	+
Employee_id	first_name	last_name	email	phone_number	hire_date	job_id	salary	commission_pct	manager_id	department_id
100	Steven	King	SKING	515.123.4567	1987-06-17	AD_PRES	24000	NULL	NULL	20
101	Neena	Kochhar	NKOCHHAR	515.123.4568	1989-11-21	AD_VP	17000	NULL	100	20
103	Alexander	Hunold	AHUNOLD	590.423.4567	1990-09-30	IT_PROG	9000	NULL	102	60
104	Bruce	Ernst	BERNST	590.423.4568	1991-05-21	IT_PROG	6000	NULL	103	60
105	David	Austin	DAUSTIN	590.423.4569	1997-06-25	IT_PROG	4800	NULL	103	60
108	Nancy	Greenberg	NGREENBE	515.124.4569	1994-08-17	FI_MGR	12000	NULL	101	100
120	Matthew	Weiss	MWEISS	650.123.1234	1996-07-18	ST_MAN	8000	NULL	100	50