## **MYSQL TASK-2**

#### ANUKRISHNAN T

### **Creating Database**

```
mysql> CREATE DATABASE entri_assignment;
Query OK, 1 row affected (0.09 sec)
mysql> show databases;
 Database
 anu
 entri
 entri assignment
 entry
 information_schema
 mysql
 performance_schema
 sample
 SYS
9 rows in set (0.05 sec)
mysql> use entri_assignment;
Database changed
```

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

```
mysql> SELECT first_name,last_name,job_id,salary FROM employees WHERE first_name LIKE 'S%';
 first_name
              last_name | job_id
                                       salary
 Shelli
               Baida
                            PU CLERK
                                          2900
 Sigal
               Tobias
                            PU CLERK
                                          2800
               Vollman
 Shanta
                            ST MAN
                                          6500
                            ST_CLERK
                                          2200
 Steven
               Markle
4 rows in set (0.00 sec)
```

## 2.Write a query to select employee with the highest salary(Using inner query)

```
mysql> SELECT * FROM employees
    -> ORDER BY salary DESC
    -> LIMIT 1;
 Employee_id | first_name | last_name
                                                                  | hire_date
                                                                                | job_id | salary | commission_pct
          101 | Neena
                             Kochhar
                                        | NKOCHHAR | 515.123.4568 |
                                                                    1989-11-21 | AD_VP
                                                                                            17000
                                                                                                                                               20
l row in set (0.00 sec)
mysql> SELECT * FROM employees WHERE salary = (SELECT MAX(salary) FROM employees);
 Employee id
               first_name
                                                     phone_number
                                                                                | job_id |
                                                                                          salary
          101
               Neena
                             Kochhar
                                         NKOCHHAR
                                                     515.123.4568
                                                                                 AD_VP
                                                                                            17000
          102
               Lex
                             De Haan
                                         LDEHAAN
                                                     515.123.4569
                                                                    1993-09-12
                                                                                 AD_VP
                                                                                            17000
                                                                                                               NULL
                                                                                                                             100
                                                                                                                                               30
2 rows in set (0.00 sec)
```

### 3. Select employee with the second highest salary

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

employee_id	first_name	last_name	manager_id	salary
101	Neena	Kochhar	100	17000
102	Lex	De Haan	100	17000
104	Bruce	Ernst	103	6000
105	David	Austin	103	4800
106	Valli	Pataballa	103	4800
107	Diana	Lorentz	103	4200
108	Nancy	Greenberg	101	12000
109	Daniel	Faviet	108	9000
110	John	Chen	108	8200
111	Ismael	Sciarra	108	7700
114	Den	Raphaely	100	11000
115	Alexander	Khoo	114	3100
116	Shelli	Baida	114	2900
117	Sigal	Tobias	114	2800
118	Guy	Himuro	114	2600
119	Karen	Colmenares	114	2500
120	Matthew	Weiss	100	8000
122	Payam	Kaufling	100	7900
123	Shanta	Vollman	100	6500
124	Kevin	Mourgos	100	5800
125	Julia	Nayer	120	3200
126	Irene	Mikkilineni	120	2700
127	James	Landry	120	2400
128	Steven	Markle	120	2200
130	Mozhe	Atkinson	121	2800

5. Write a query to select employees and their corresponding managers and their salaries (SELF Join)

```
mysql> SELECT CONCAT(e.first_name,' ',e.last_name) as employee_name,e.salary employee_salary,
-> CONCAT(m.first_name,' ',m.last_name) as manager_name,m.salary manager_salary
    -> FROM employees e
    -> inner join employees m on m.Employee_id = e.manager id;
employee_name | employee_salary | manager_name | manager_salary
 Nancy Greenberg
                                  12000
                                          Neena Kochhar
 Daniel Faviet
                                  9000
                                          Nancy Greenberg
                                                                      12000
                                          Nancy Greenberg
                                  8200
 John Chen
                                                                       12000
 Ismael Sciarra
                                          Nancy Greenberg
                                  7700
                                                                       12000
                                  3100 | Den Raphaely
 Alexander Khoo
                                                                       11000
 Shelli Baida
                                  2900 Den Raphaely
                                                                       11000
                                  2800 | Den Raphaely
 Sigal Tobias
                                                                       11000
                                  2600 |
2500 |
 Guy Himuro
                                          Den Raphaely
                                                                       11000
 Karen Colmenares
                                          Den Raphaely
                                                                       11000
 Julia Nayer
                                  3200
                                          Matthew Weiss
                                                                        8000
 Irene Mikkilineni |
                                          Matthew Weiss
                                                                        8000
                                  2700
                                  2400
 James Landry
                                          Matthew Weiss
                                                                        8000
 Steven Markle
                                  2200 | Matthew Weiss
                                                                        8000
13 rows in set (0.00 sec)
```

#### 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

mysql> select department\_name,count(Employee\_id) employee\_count

```
-> from department d
  -> left join employees e on d.department id = e.department id
  -> group by d.department_id,department_name
  -> order by employee_count desc;
                     employee count
department_name
Shipping
                                     3
Purchasing
                                     3
Human Resources
                                     3
IT
                                     2
Sales
                                     2
Payroll
Marketing
                                     1
Public Relations
                                     1
Executive
                                     1
Finance
                                     1
Accounting
                                     1
Corporate Tax
                                     1
Benifits
                                     1
Treasury
                                     0
Control And Creadit
                                     0
Shareholder Services
                                     0
```

16 rows in set (0.00 sec)

#### 9.Get the count of employees hired year wise

```
mysql> select year(hire_date) year,count(employee_id) employee_count
    -> from employees
    -> group by year(hire_date)
    -> order by year(hire date);
         employee count
 1989
 1991
                       1
 1993
                       1
 1994
                       3
                       2
 1995
 1996
                       1
 1997
                       8
                       3
 1998
 1999
                       4
 2000
10 rows in set (0.00 sec)
mysq1>
```

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

```
mysql> DELIMITER //
mysql> CREATE PROCEDURE GetEmployeesCountByYear(IN input_year INT, OUT employee_count INT)
    -> BEGIN
    -> select count(*) INTO employee_count from employees where year(hire_date) = input_year;
    -> END //
Query OK, 0 rows affected (0.02 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(\_ \_ \_)-(\_ \_ \_)-(\_ \_ \_)

```
mysql> SELECT first_name, CONCAT
              ('(',SUBSTRING(phone_number,1,3),')-(',SUBSTRING(phone_number,5,3),')-(',SUBSTRING(phone_number,9,4),')') AS 'phone number'
       -> FROM employees;
   first_name | phone number
                              (515) - (123) - (4568)
(515) - (123) - (4569)
(590) - (423) - (4568)
(590) - (423) - (4569)
(590) - (423) - (4560)
   Neena
   Lex
   Bruce
   David
   Valli
                              (590)-(423)-(5567)
   Diana
                             (590) - (423) - (5567)

(515) - (124) - (4569)

(515) - (124) - (4169)

(515) - (124) - (4269)

(515) - (127) - (4561)

(515) - (127) - (4562)

(515) - (127) - (4563)

(515) - (127) - (4565)

(515) - (127) - (4565)

(515) - (127) - (4565)
   Nancy
   Daniel
   John
   Ismael
   Den
   Alexander
   Shelli
   Sigal
   Guy
                              (515)-(127)-(4566)
(650)-(123)-(1234)
   Karen
   Matthew
                              (650) - (123) - (3234)
(650) - (123) - (4234)
(650) - (123) - (5234)
   Payam
   Shanta
   Kevin
                              (650) - (124) - (1214)
(650) - (124) - (1224)
(650) - (124) - (1334)
(650) - (124) - (1434)
(650) - (124) - (6234)
   Julia
   Irene
   James
   Steven
   Mozhe
25 rows in set (0.00 sec)
```

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

```
mysql> SELECT * 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 |
                              Greenberg
                                                      515.124.4569
                                                                      1994-08-17 |
1994-08-12 |
         109
              Daniel
                              Faviet
                                          DFAVIET
                                                      515.124.4169
                                                                                    FI_ACCOUNT
                                                                                                    9000
                                                                                                                      NULL
                                                                                                                                     108
                                                                                                                                                      170
2 rows in set (0.00 sec)
```

14. Find the maximum salary from each department.

```
mysql> SELECT Department_name,MAX(salary) AS 'salary'
    -> FROM Department d
    -> INNER JOIN employees e ON d.Department_id = e.department_id
    -> GROUP BY Department_name;
 Department name
                     salary
 Marketing
                      17000
 Purchasing
                      17000
 6000
 Human Resources
                       7900
 Finance
                      12000
 Payroll
                       9000
 Benifits
                       7700
 Sales
                       5800
 Public Relations
                       2900
 Corporate Tax
                       2500
 Shipping
                       8000
 Executive
                       2400
 Accounting
                       2800
13 rows in set (0.00 sec)
```

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

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

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	NULL	+   100	20
row in set (	+ 0.00 sec)	+	+		+				+	+

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

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	NULL	100	20
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