#### **EXPERIMENT-6**

Implement Aggregate Functions, Group by & Having Clauses, Nested, Correlated Nested, Views, Indices and DCL Commands on

#### PRE-LAB

1. Discuss about GRANT, REVOKE and SYNONYM

DBMS Practical6

190031187

- command used to provide access or privileges on the database objects to the users
  - command removes user access rights or privileges to the dabaxe objects.
  - command allows you to create a synonym which is an alternative name for a database objects.
- 2. Give the differences between AVERAGE and ROUND commands?
  - 2 AVERAGE function used to find out the average of a field in various records

ROUND function is used to round a number to a specified precision syntax ROUND (expression, [decimal place])

3. What is the use of VIEW statement in SQL?

- 190031187 view can be created using tables of same database or different database It is used to implement the security mechanism in the sou.
- 4. Discuss about any 5 aggregate functions.
  - 4. (i) AVGI: calculates any of set of values (1) count : counts now in a specified table.
    - (iii) MIN; gives the minimum value in a set of values.
  - (iv) MM + gives the maximum value in a set of values.
    - (V) sum: calculates the sum of values
- 5. What do you mean by a nested query in SQL?
  - 5. Nested overy is a overy within another sel query and embedded within the WHERE Clause

- 6. What are the pattern matching operators that can be used in mySQL?
  - 6. Mysol provides standard son pattern matching as well as a form of pattern matching based on extended regular expressions similar to those used by unix utilities such as vi, grep, and sed.
- 7. Write a SQL Query to display the Current Date?
  - 7. SELECT date format (CURPATE(), 1.w 1.D 1.m.
- 9. Display the structure of the table?
  - 9. The structure of the table can be viewed by using the command's DESCRIBE TABLE-NAME
- 10. What is meant by aliasing in SQL?
  - 10- Aliasing are the temporary names given to table or column for the purpose of a particular soc query

- 8. Discuss about any 5 Character Manipulation functions?
  - character values to Lowercase

    syntax LOWER (son course)
    - (11) UPPER 1. This function converts alpha character values to uppercase syntax upper (sor course)
    - the input string. If the input string is NULL the Length function returns

      NULL and not zero.

      1 yntax LENGTH (column | Expression)
    - (iv) INSERT + This function returns numeric position of a character of a string in a given string syntax INSERT (column | Expression, string, [M], (N))
    - (v) CONCAT; This function always append string 2 to the end of string!. CONCAT ('string!, 'string2');

## NERELLA VENKATA RADHAKRISHNA

## **POST-LAB**

## <u>Worker</u>

WORKER_ID	FIRST_NAME	LAST_NAME	SALARY	JOINING_DATE	DEPARTMENT
001	Monika	Arora	100000	2014-02-20 09:00:00	HR
002	Niharika	Verma	80000	2014-06-11 09:00:00	Admin
003	Vishal	Singhal	300000	2014-02-20 09:00:00	HR
004	Amitabh	Singh	500000	2014-02-20 09:00:00	Admin
005	Vivek	Bhati	500000	2014-06-11 09:00:00	Admin
006	Vipul	Diwan	200000	2014-06-11 09:00:00	Account
007	Satish	Kumar	75000	2014-01-20 09:00:00	Account
008	Geetika	Chauhan	90000	2014-04-11 09:00:00	Admin

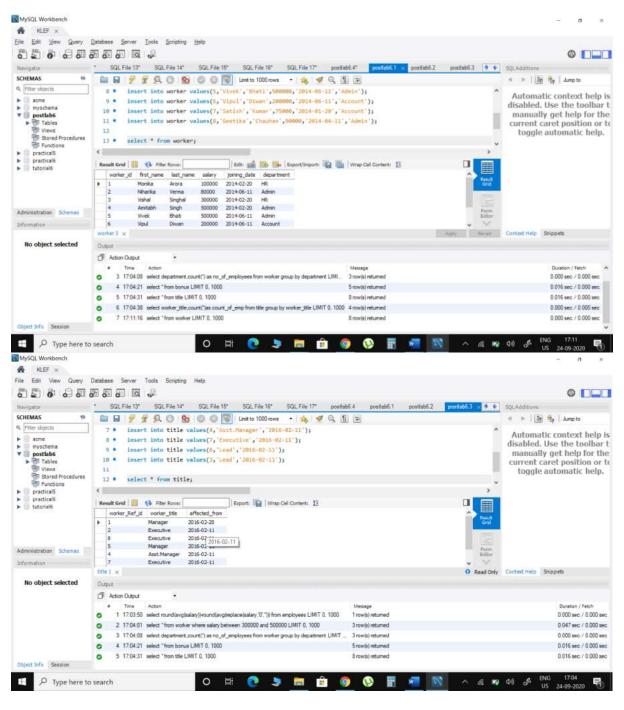
# Bonus

WORKER_REF_I D	BONUS_DATE	BONUS_AMOUNT
1	2016-02-20 00:00:00	5000
2	2016-06-11 00:00:00	3000
3	2016-02-20 00:00:00	4000
1	2016-02-20 00:00:00	4500
2	2016-06-11 00:00:00	3500

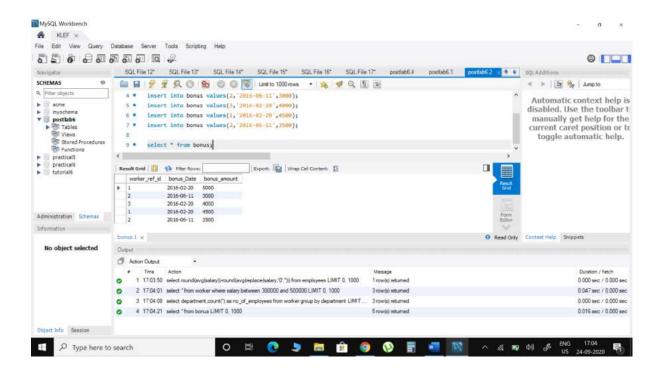
# **Title**

WORKER_REF_ID	WORKER_TITLE	AFFECTED_FROM
1	Manager	2016-02-20 00:00:00
2	Executive	2016-06-11 00:00:00
8	Executive	2016-06-11 00:00:00
5	Manager	2016-06-11 00:00:00

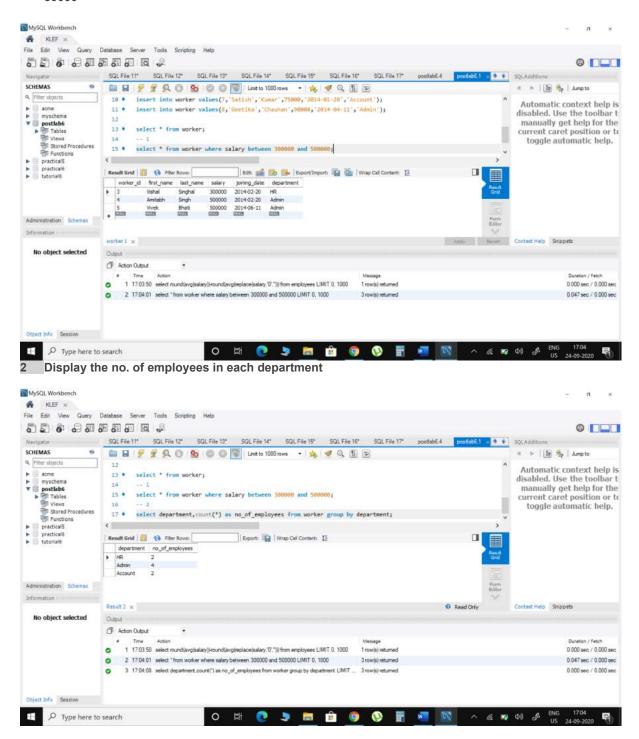
4	Asst. Manager	2016-06-11 00:00:00
7	Executive	2016-06-11 00:00:00
6	Lead	2016-06-11 00:00:00
3	Lead	2016-06-11 00:00:00



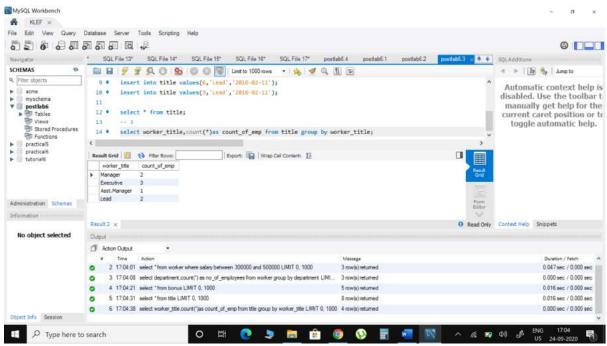
#### NERELLA VENKATA RADHAKRISHNA



1 Create a SQL query to display employeesdetailswhose salary is greater than 30000 and less than 50000



3 Display the count of employees with same designation in an organization



### 4 Problem:

Sharon was tasked with calculating the average monthly salaries for all employees in the **EMPLOYEES** table, but did not realize her keyboard's key was broken until after completing the calculation. She wants your help finding the difference between her miscalculation (using salaries with any zeroes removed), and the actual average salary. Write a query calculating the amount of error (i.e.: average monthly salaries), and round it up to the next integer.

#### **Input Format**

The EMPLOYEES table is described as follows:

Column	Туре
ID	Integer
Name	String
Salary	Integer

**Note:** Salary is measured in dollars per month and its value is .

#### Sample Input

ID	Name	Salary
1	Kristeen	1420
2	Ashley	2006
3	Julia	2210
4	Maria	3000

### Sample Output

2061

#### **Explanation**

The table below shows the salaries without zeroes as they were entered by Samantha:

ID	Name	Salary
7	Kristeen	142
2	Ashley	26
3	Julia	221
4	Maria	3

Sharon computes an average salary of 98.00. The *actual* average salary is 2195.00. The resulting error between the two calculations is 2195.00-98.00=2061.00 which, when rounded to the next integer, is 2061.

