DBs LabNo.4

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DATABASE SYSTEM

LAB No: 04

Objective of Lab No. 4:

After performing lab 4, students will be able to:

o Aggregate Functions

o GROUP BY Statement

o HAVING clause

o Regular Expressions

Lab Tasks

1. Write a query to lists the number of employees in each department.
   Query: Select count(employee_id) ,Department_id From employees Group by department_id;

2. Write a query to display the department id where at least 5 employees should be in each department.
   Query: Select count(employee_id) ,Department_id From employees Group by department_id having COUNT(employee_id) >=5;

3. Write a query to display all columns of those employees who has first name is unique.
   Query: select first_name from employees Group by first_name having count(first_name)=1;

4. Write a SQL query to get name of students containing exactly four characters.
   Query: Select first_name from employees where first_name regexp "^.{5}$";

5. Write a query to display the list of employee names that have letters ‘LA’ in their names.
   Query: Select * from employees Where first_name REGEXP 'LA';

6. Write a query to display names of those employees whose first name starts with ‘A’ and ends with ‘N’.
   Query: Select first_name from employees Where first_name REGEXP'^[A]' And first_name REGEXP'n$';

7. Write a query to display first names of all employees that end with alphabet ‘N’.
   Query: Select first_name from employees Where first_name REGEXP'n$';

8. Write a query to display FIRST_NAME, LASTNAME of all employees whose first name starts with letter ‘A’.
   Query: Select first_name , last_name from employees Where first_name REGEXP'^[A]';

9. Write a query to display the number of employees with the same job.
   Query: Select job_id, count(*) from employees group by job_id;

10. Display the manager number and the salary of the lowest paid employee of that manager. Exclude anyone whose manager is not known. Exclude any groups where the minimum salary is 2000. Sort the output is descending order of the salary.
    Query: Select manager_id , min(salary) as min from employees where manager_id is not null
    -> group by manager_id
    -> order by min desc;

11. Display the total number of employees who have no commission.
    Query: Select COUNT(*) as No_commission_employees From employees Where Commission_pct is null or commission_Pct = 0;

12. Write a query to display FIRST_NAME, LASTNAME of all employees whose first name small ‘t’.
    Query: Select first_name last_name from employees Where first_name REGEXP "t";