Assignment - 3

DBMS

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Problem 1:

Task: Create a procedure to reset all employee salaries to 50000.

```
Code: — —
```

```
delimiter //
create procedure ResetAllSalaries()
begin
    update employees
    set salary = 50000
    where empid > 0;
end //
delimiter;

call ResetAllSalaries();
select * from employees;
```

emp_id	name	salary	department
1	Alice	50000.00	HR.
2	Bob	50000.00	Π
3	Charlie	50000.00	Finance
NULL	NULL	NULL	MULL

Problem 2:

Task: Create a procedure to delete all employees in the HR department.

```
Code: —
delimiter //
create procedure delete_hr_emp()
begin
    delete from employees
    where department = 'hr';
end //
delimiter ;

call delete_hr_emp();
select * from employees;
```

Output: —

1				1
	emp_id	name	salary	department
)	2	Bob	50000.00	IT
	3	Charlie	50000.00	Finance
	NULL	NULL	NULL	NULL

Problem 3:

Task: Create a procedure to increase all employee salaries by 5

```
Code: —
delimiter //
create procedure inc_sal()
begin
    update employees
    set salary = salary + salary * (5/100);
end //
delimiter;

call inc_sal();
select * from employees;
```

	emp_id	name	salary	department
)	2	Bob	52500.00	IT
	3	Charlie	52500.00	Finance
	NULL	NULL	NULL	NULL

Problem 4:

Task: Create a procedure to insert a new employee (IN parameters).

```
Code: — |
delimiter //
create procedure add_emp(in emp_name varchar(50), in emp_sal
    decimal(10,2), in emp_dept varchar(30))
begin
    insert into employees (name, salary, department)
    values (emp_name, emp_sal, emp_dept);
end //
delimiter;

call add_emp('sony', 43000, 'IT');
select * from employees;
```

Output: —

	emp_id	name	salary	department
)	2	Bob	52500.00	IT
	3	Charlie	52500.00	Finance
	4	vinod	52500.00	IT
	5	sony	43000.00	IT
	NULL	NULL	NULL	NULL

Problem 5:

Task: Create a procedure to insert a new department (IN parameters).

```
Code: — |
delimiter //
create procedure addDept(
    in d_name varchar(30),
    in loc varchar(30))
begin
    insert into departments(dept_name, location)
    values (d_name, loc);
```

```
end //
delimiter ;

call addDept('Physics', 'Hyderabad');

select * from departments;
```

	dept_id	dept_name	location
•	1	HR	Hyderabad
	2	IT	Bangalore
	3	Finance	Delhi
	4	Physics	Hyderabad
	NULL	NULL	NULL

Problem 6:

Task: Create a procedure to delete an employee by name (IN parameter).

```
Code: — |
delimiter //
create procedure del_emp_name(in n varchar(50))
begin
    delete from employees
    where name = n;
end //
delimiter;
call del_emp_name('vinod');
```

Output: —

select * from employees;

Problem 7:

Task: Create a procedure to change an employee's department (IN parameters).

Output: —

```
mysql> select * from employees;

+-----+

| emp_id | name | salary | department |

+-----+

| 2 | Bob | 52500.00 | IT |

| 3 | Charlie | 52500.00 | CSE |

| 5 | sony | 43000.00 | IT |

+-----+
```

Problem 8:

Task: Create a procedure to get the highest salary (OUT parameter).

Problem 9:

Task: Create a procedure to get average salary (OUT parameter).

Output: —

```
mysql> select @AvgSal as EmployeesAverageSalary;
+-----+
| EmployeesAverageSalary |
+-----+
| 52750.00 |
+-----+
```

Problem 10:

Task: Create a procedure to get department count (OUT parameter).

```
select @dept_count as DepartmentCount;
select * from departments;
```

Problem 11:

Task: Create a procedure to get an employee's name by ID (IN and OUT parameter).

Output: —

```
mysql>
mysql> select @emp_name as EmployeeName;
+-----
| EmployeeName |
+------|
| sony |
+-----
```

Problem 12:

Task: Create a procedure to increase salary of an employee by a given percentage (IN parameters).

mysql> select * from employees;				
emp_id	name	salary	department	
2 3 5 6	Bob Charlie sony bhujanga	52500.00 52500.00 47300.00 63000.00	IT CSE IT IT	

Problem 13:

Task: Create a procedure to add a bonus to an employee and return updated salary (INOUT parameter).

```
end //
delimiter ;
set @salary = 0;
call addBonusToEmployee(5, @salary, 25000);
select @salary as "Updated Salary";
```

```
mysql> select @salary as "Updated Salary";
+-----+
| Updated Salary |
+-----+
| 72300.00 |
+-----+
```

Problem 14:

Task: Create a procedure to move an employee to another department and return new department name (INOUT parameter).

```
Code: —
delimiter //
create procedure MoveEmployeeToDept(in e_id int, inout new_dept
    varchar(30))
begin
          update employees
    set department = new_dept
    where emp_id = e_id;
end //
delimiter;

set @dept = 'dac';
call MoveEmployeeToDept(6, @dept);

select * from employees;
```

```
mysql> set @dept = 'dac';
Query OK, 0 rows affected (0.00 sec)
mysql> call MoveEmployeeToDept(6, @dept);
Query OK, 1 row affected (0.01 sec)
mysql> select * from employees;
 emp_id | name
                      salary
                                 department
                      52500.00
       2
           Bob
                                 IT
           Charlie
       3
                      52500.00
                                 CSE
       5
           sony
                      72300.00
                                 ΙT
           bhujanga
                      63000.00
                                 dac
```

Problem 15:

Task: Create a procedure to change department location and return updated location (INOUT parameter).

```
mysql> set @loc = 'Pune';
Query OK, 0 rows affected (0.00 sec)
mysql> call changeDeptLoc(4, @loc);
Query OK, 1 row affected (0.01 sec)
mysql> select * from departments;
  dept_id | dept_name |
                        location
        1
            HR
                         Hyderabad
                         Bangalore
        2
            IT
        3
            Finance
                         Delhi
            Physics
        4
                         Pune
```

Problem 16:

Task: Create a procedure to show employees earning above a given salary (IN parameter).

Output: —

Problem 17:

Task: Create a procedure to show all departments in a specific location (IN parameter).

```
mysql> call showDeptInLoc('Pune');
+-----+
| dept_id | dept_name | location |
+-----+
| 4 | Physics | Pune |
+-----+
```

Problem 18:

Task: Create a procedure to delete a department by name (IN parameter).

Problem 19:

Task: Create a procedure to find the total salary paid in a department (IN and OUT parameter).

```
mysql> call totalSalDeptWise('IT', @totalSal);
Query OK, 1 row affected (0.00 sec)

mysql> select @totalSal as TotalSalary;
+-----+
| TotalSalary |
+-----+
| 124800.00 |
+-----+
```

Problem 20:

Task: Create a procedure to find the minimum salary and return it (OUT parameter).

```
mysql> select @minSalary as MinimumSalary;
+-----+
| MinimumSalary |
+------+
| 52500.00 |
+-----+
```