1. Create the following tables:

a) Employee (emp\_no varchar, emp\_name varchar, dob date, address text, mobile\_no integer, dept\_no varchar, salary integer)

b) Department (dept\_no varchar, dept\_name varchar, location varchar)

c) Display the structure of the Employee table and Department table.

d) Add a new column ‘Designation’ to the table Employee.

e) Drop the column ‘location’ from Department table.

f) Add at least 5 rows into the table Employee and Department.

g) Display all the records from the above tables

h) Display the emp\_no and name of employees from department no ‘D02’.

i) Display emp\_no, emp\_name , designation, deptno and salary of employees in the descending order of salary.

j) Change the mobile number of employees named John .

k) Retrieve the name, mobile number of all employees whose name start with “A”.

l) Displays how many employees work for each department.

2. Write a stored procedure using cursor to calculate salary of each employee. Consider an Emp\_salary table have the following attributes emp\_id, emp\_name, no\_of\_working\_days, designation and salary.

Answer

c) desc department;

desc employee;

d) alter table employee add column designation varchar(30) ;

e) alter table department drop column location;

f)

g) select \* from employee;

select \* from department;

h) select emp\_no,emp\_name from employee where dept\_no='d001';

i) select emp\_no,emp\_name,designation,dept\_no,salary from employee order by salary desc ;

j) update employee set mobile\_no=4567843 where emp\_name="john";

k) select emp\_name,mobile\_no from employee where emp\_name like ("a%")

l) select dept\_no,count(\*) as total from employee group by dept\_no;

2.

CREATE PROCEDURE CalculateEmployeeSalary()

-> BEGIN

-> DECLARE done INT DEFAULT FALSE;

-> DECLARE emp\_id\_val INT;

-> DECLARE emp\_name\_val VARCHAR(100);

-> DECLARE working\_days\_val INT;

-> DECLARE designation\_val VARCHAR(100);

-> DECLARE daily\_wage DECIMAL(10, 2);

-> DECLARE emp\_salary DECIMAL(10, 2);

->

-> DECLARE emp\_cursor CURSOR FOR

-> SELECT emp\_id, emp\_name, no\_of\_working\_days, designation

-> FROM Emp\_salary; ->

-> DECLARE CONTINUE HANDLER FOR NOT FOUND SET done = TRUE;

->

-> OPEN emp\_cursor;

->

-> emp\_loop: LOOP

-> FETCH emp\_cursor INTO emp\_id\_val, emp\_name\_val, working\_days\_val, designation\_val;

->

-> IF done THEN

-> LEAVE emp\_loop;

-> END IF;

->

-> CASE designation\_val

-> WHEN 'Assistant Professor' THEN SET daily\_wage := 1750.00;

-> WHEN 'Clerk' THEN SET daily\_wage := 750.00;

-> WHEN 'Programmer' THEN SET daily\_wage := 1250.00;

-> ELSE SET daily\_wage := 0.00;

-> END CASE;

->

-> SET emp\_salary := daily\_wage \* working\_days\_val;

->

-> SELECT CONCAT(emp\_name\_val, "'s salary is $", emp\_salary) AS Result;

->

-> END LOOP;

->

-> CLOSE emp\_cursor;

-> END ;

CALL CalculateEmployeeSalary();