DATABASE MANAGEMENT AND SYSTEMS NAME – RAHUL KATTINI ROLL NO - \$20200010091

QUESTION-1

```
mysql> delimiter //
mysql> create trigger trig
   -> BEFORE INSERT
   -> ON Distance FOR EACH ROW
   -> BEGIN
   -> declare fromcity1, tocity1 varchar(30);
   -> declare dist, test1, test2 INT;
   -> set fromcity1 = new.fromcity;
   -> set tocity1 = new.tocity;
   -> set dist = new.di;
   -> select count(*) into test1 from Distance where fromcity=fromcity1 and tocity=tocity1;
   -> select count(*) into test2 from Distance where fromcity=tocity1 and tocity=fromcity1;
   -> sit test1>0 or test2> 0 then
   -> SIGNAL SQLSTATE '02000' SET MESSAGE_TEXT = "Distance between these
   '> cities already exist";
   -> END IF;
   -> END IF;
   -> END //
Query OK, 0 rows affected (0.06 sec)
mysql> DELIMITER;
mysql> insert into distance values('chennai', 'Hyderabad', 470);
Query OK, 1 row affected (0.04 sec)
mysql> insert into distance values('gujarat', 'Hyderabad', 1332);
Query OK, 1 row affected (0.02 sec)
```

QUESTION-2

QUESTION-3

```
mysql> delimiter //
mysql> create procedure merge_table()
    -> begin
    -> declare done int default 0;
    -> declare nt_id int;
    -> declare nt_name varchar(10);
    -> declare curmerge cursor for
    -> select id, name from table2;
    -> declare continue handler for not found set done = 1;
    -> open curmerge;
    -> merging: loop
    -> fetch curmerge into nt_id,nt_name;
    -> if done =1 then
    -> leave merging;
    -> end if;
    -> insert into table1 values(nt id,nt name);
    -> end loop merging;
    -> close curmerge;
    -> end //
Query OK, 0 rows affected (0.01 sec)
```

QUESTION-4

```
mysql> create table employees(name varchar(30), experience int, salary int(10));
Query OK, 0 rows affected, 1 warning (0.07 sec)
mysql> insert into employees values('sham', 11, 10000);
Query OK, 1 row affected (0.02 sec)
mysql> insert into employees values('siv', 45, 10040);
Query OK, 1 row affected (0.01 sec)
mysql> insert into employees values('sri', 1, 600000);
Query OK, 1 row affected (0.01 sec)
mysql> delimiter //
mysql> create procedure FindEmployee(in input INT)
     -> DECLARE CONTING
-> OPEN cur1;
-> read_loop: LOOP
-> FETCH cur1 INTO name1, salary1;
-> IF done THEN
-> LEAVE read_loop;
      -> END IF;
-> if(salary1 < input) THEN
-> SELECT name1 as Name, salary1 as Salary;
      -> END IF;
      -> END LOOP;
-> CLOSE cur1;
-> END //
Query OK, 0 rows affected (0.03 sec)
mysql> delimiter ;
mysql> call FindEmployee(10000);
Query OK, O rows affected (0.02 sec)
mysql> call FindEmployee(20000);
  Name | Salary
             10000
  sham |
  row in set (0.00 sec)
  Name | Salary |
  siv
             10040
  row in set (0.01 sec)
```

QUESTION-5

```
mysql> delimiter //
mysql> create procedure

-> updatesalaryofEmployees()

-> begin

-> declare done INT DEFAULT FALSE;

-> declare temp decimal(15,2);

-> declare salary1, expl INT;

-> DECLARE curl CURSOR FOR SELECT name, experience, salary FROM employees;

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

-> OPEN curl;

-> read_loop; LOOP

-> FETCH curl INTO name1, exp1, salary1;

-> IF done then

-> leave read_loop;

-> END IF;

-> set temp=salary1;

-> IF expl>30 then

-> set temp = (1.3) *salary1;

-> elseif expl>20 and exp1<=30 then set

-> temp=(1.2)*salary1;

-> elseif expl>10 and exp1<=20 then set

-> temp=(1.1)*salary1;

-> END IF;

-> SELECT name1 as name, expl as experience, salary1 as salary, temp as incrementedSalary;

-> END LOOP;

-> CLOSE curl;

-> RND //

Query OK, 0 rows affected (0.02 sec)

mysql> call UpdateSalaryofEmployees();

-- and continue for the continue for
```

THANK YOU