Lab - 7

Name : Rahul Katinni

Roll : S20200010091

```
mysql> drop procedure insertCustomer ;
Query OK, 0 rows affected (0.04 sec)
```

```
mysql> delimiter $
mysql> create procedure addition(in a int, in b int, out c int)
    -> begin
     -> select a+b into c
     -> end $
Query OK, 0 rows affected (0.01 sec)
mysql> delimiter ;
mysql> call addition(2,3,@product);
Query OK, 1 row affected (0.03 sec)
mysql> select @product;
  @product
          5
1 row in set (0.01 sec)
mysql> delimiter $
mysql> create procedure multiplication(in a int, in b int, out c int)
     -> begin
     -> select a*b into c
    -> ;
-> end $
Query OK, 0 rows affected (0.01 sec)
mysql> delimiter ;
mysql> call multiplication(5,4,@product);
Query OK, 1 row affected (0.00 sec)
mysql> select @product;
  @product |
         20
1 row in set (0.01 sec)
```

```
mysql> delimiter $
mysql> create procedure Factorial(in a int)
   -> begin
   -> declare c int;
   -> set c = a;
    -> if a=0 or a=1 then
    -> set c=1;
   -> select c;
   -> else
   -> while a>1 do
   -> set c = c*(a-1);
   -> set a = a-1;
   -> end while;
   -> select c;
   -> end if;
   -> end $
Query OK, 0 rows affected (0.03 sec)
mysql> delimiter ;
mysql> call Factorial(4);
   24
1 row in set (0.00 sec)
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> delimiter $
mysql> create Procedure UpdateName(in oldName varchar(30), in newName varchar (30))
    -> begin
    -> update customer set customer_name=newName where customer_name=oldname;
    -> end $
Query OK, 0 rows affected (0.01 sec)
mysql> delimiter ;
mysql> select customer_name from customer;
customer_name
 Adams
 Brooks
 Curry
 Glenn
 Green
 Hayes
 Johnson
  Jones
 Lindsay
 Peter
 Smith
 Turner
 Williams
13 rows in set (0.02 sec)
```

```
mysql> call UpdateName('Peter','Sai');
Query OK, 1 row affected (0.01 sec)
mysql> select customer_name from customer;
 customer_name
 Adams
 Brooks
 Curry
 Glenn
 Green
 Hayes
 Johnson
  Jones
 Lindsay
 Sai
 Smith
 Turner
 Williams
13 rows in set (0.00 sec)
mysql>
```

```
mysql> delimiter $
mysql> create procedure hasLoan(in cname varchar(30))
   -> begin
   -> declare yes varchar(100) default "Yes, This customer has a loan";
   -> declare no varchar(100) default "NO, This customer does not have a loan";
   -> declare cnt int;
-> select count(*) into cnt from borrower where borrower.customer_name=cname;
   -> if cnt=0 then
   -> select no;
    -> else
   -> select yes;
   -> end if;
   -> end $
Query OK, 0 rows affected (0.01 sec)
mysql> select * from borrower;
   -> end $
 customer_name | loan_number |
 Smith
                L-11
                 L-15
 Hayes
                 L-16
 Adams
 Jones
                L-17
 Williams
                L-17
 Smith
                  L-23
 Curry
                L-93
 rows in set (0.00 sec)
```

```
mysql> delimiter $
mysql> create procedure city(in cname varchar(30))
   -> begin
   -> declare cnt int;
    -> select count(*) into cnt from customer where customer_customer_name=cname;
    -> if cnt>0 then
   -> select customer_city from customer where customer.customer_name=cname;
   -> insert into customer(customer_name) values (cname);
   -> end if;
   -> end $
Query OK, 0 rows affected (0.03 sec)
mysql> delimiter ;
mysql> select customer_name,customer_city from customer;
 customer_name | customer_city |
 -----
           | Pittsfield
| Brooklyn
| Rye
 Brooks
 Curry
            | Woodside
| Stamford
| Harrison
 Glenn
 Green
 Hayes
 Johnson
              | Palo Alto
              | Harrison
| Pittsfield
| Queens
  Jones
 Lindsay
  Sai
               Rye
  Smith
                Stamford
  Turner
              Princeton
 Williams
13 rows in set (0.00 sec)
```

```
mysql> delimiter $
mysql> create procedure DisplayAccNO(in bal double)
   -> begin
   -> select account_number from account where balance > bal;
Query OK, 0 rows affected (0.01 sec)
mysql> delimiter ;
mysql> select account_name, balance from account;
ERROR 1054 (42S22): Unknown column 'account_name' in 'field list'
mysql> delimiter ;
mysql> select account_number, balance from account;
| account_number | balance |
                500.00
400.00
 A-101
 A-102
                 900.00
 A-201
 A-215
                  700.00
                 750.00
 A-217
               700.00
350.00
 A-222
 A-305
7 rows in set (0.00 sec)
mysql> call DisplayAccNo(500);
account_number
 A-201
 A-215
 A-217
 A-222
4 rows in set (0.03 sec)
Query OK, 0 rows affected (0.11 sec)
```