20BCS042 | Mohd Adil
Assignment 11

```
mysql> create database assignment11;
Query OK, 1 row affected (0.04 sec)

mysql> delimiter ]

mysql> SET GLOBAL log_bin_trust_function_creators = 1]
Query OK, 0 rows affected (0.01 sec)
```

Q1. Write a SQL function and stored procedure for average of three numbers.

Function:

```
mysql> create function 42CSavg3no(a int, b int,c int) returns int
    -> begin
    -> declare sum,avg int;
    -> set sum = a + b + c;
    -> set avg = sum/3;
    -> return avg;
    -> end]
Query OK, 0 rows affected (0.03 sec)
```

```
mysql> create function 42CSavg3no(a int, b int,c int) returns int
    -> begin
    -> declare sum,avg int;
    -> set sum = a + b + c;
    -> set avg = sum/3;
    -> return avg;
    -> end]
Query OK, 0 rows affected (0.03 sec)

mysql> select 42CSavg3no(4,5,6)]
+-------------------+
| 42CSavg3no(4,5,6) |
+-------------------+
|                 5 |
+-------------------+
1 row in set (0.01 sec)
```

Procedure:

```
mysql> create procedure 42CSavg3no(In a int,In b int,In c int,Out t int)
    -> begin
    -> declare sum int;
    -> set sum = a + b + c;
    -> set t = sum/3;
    -> end]
Query OK, 0 rows affected (0.01 sec)

mysql> call 42CSavg3no(4,5,6,@avg)]
Query OK, 0 rows affected (0.01 sec)

mysql> select @avg]
+------+
| @avg |
+------+
|    5 |
+------+
1 row in set (0.00 sec)
```

```
mysql> create procedure 42CSavg3no(In a int,In b int,In c int,Out t int)
    -> begin
    -> declare sum int;
    -> set sum = a + b + c;
    -> set t = sum/3;
    -> end]
Query OK, 0 rows affected (0.01 sec)

mysql> call 42CSavg3no(4,5,6,@avg)]
Query OK, 0 rows affected (0.01 sec)

mysql> select @avg]
+------+
| @avg |
+------+
|    5 |
+------+
1 row in set (0.00 sec)
```

Q2. Write a SQL function and stored procedure to calculate factorial.

Function:

```
mysql> create function 42CSfactorial(n int) returns int
    -> begin
    -> declare f,i int default 1;
    -> myloop: loop
    -> if i>n then
    -> leave myloop;
    -> else
    -> set f = f*i;
    -> set i = i + 1;
    -> iterate myloop;
    -> end if;
    -> end loop;
    -> return f;
    -> end]
Query OK, 0 rows affected (0.01 sec)

mysql> select 42CSfactorial(5)]
+------------------+
| 42CSfactorial(5) |
+------------------+
|              120 |
+------------------+
1 row in set (0.00 sec)
```

```
mysql> create function 42CSfactorial(n int) returns int
    -> begin
    -> declare f,i int default 1;
    -> myloop:loop
    -> if i>n then
    -> leave myloop;
    -> else
    -> set f = f*i;
    -> set i = i + 1;
    -> iterate myloop;
    -> end if;
    -> end loop;
    -> return f;
    -> end]
Query OK, 0 rows affected (0.01 sec)

mysql> select 42CSfactorial(5)]
+------------------+
| 42CSfactorial(5) |
+------------------+
|              120 |
+------------------+
1 row in set (0.00 sec)
```

Procedure:

```
mysql> create procedure 42CSfactorial(In n int,Out fact int)
    -> begin
    -> declare f,i int default 1;
    -> myloop: loop
    -> if i>n then
    -> leave myloop;
    -> else
    -> set f = f*i;
    -> set i = i + 1;
    -> iterate myloop;
    -> end if;
    -> end loop;
    -> set fact = f;
    -> end]
Query OK, 0 rows affected (0.01 sec)

mysql> call 42CSfactorial(5,@factorial5)]
Query OK, 0 rows affected (0.00 sec)

mysql> select @factorial5]
+-------------+
| @factorial5 |
+-------------+
|         120 |
+-------------+
1 row in set (0.00 sec)
```

```
mysql> create procedure 42CSfactorial(In n int,Out fact int)
    -> begin
    -> declare f,i int default 1;
    -> myloop:loop
    -> if i>n then
    -> leave myloop;
    -> else
    -> set f = f*i;
    -> set i = i + 1;
    -> iterate myloop;
    -> end if;
    -> end loop;
    -> set fact = f;
    -> end]
Query OK, 0 rows affected (0.01 sec)

mysql> call 42CSfactorial(5,@factorial5)]
Query OK, 0 rows affected (0.00 sec)

mysql> select @factorial5]
+-------------+
| @factorial5 |
+-------------+
|         120 |
+-------------+
1 row in set (0.00 sec)
```

Q3. Write a SQL function and stored procedure to print Fibonacci series up to n terms and its sum.

Function:

```
mysql> create function 42CSfibonacci(n int) returns varchar(1000)
    -> begin
    -> declare i int default 3;
    -> declare a,temp int default 0;
    -> declare b,sum int default 1;
    -> declare str varchar(1000);
    -> set str = CAST(a as char(2));
    -> set str = CONCAT(str," ");
    -> myloop: loop
    -> if i>n then
    -> leave myloop;
    -> else
    -> set temp = a + b;
    -> set a = b;
    -> set b = temp;
    -> set i = i + 1;
    -> set sum = sum + temp;
    -> set str = CONCAT(str,CAST(a as char(2)));
    -> set str = CONCAT(str, " ");
    -> end if;
    -> end loop;
    -> set str = CONCAT(str,CAST(b as char(2)));
    -> set str = CONCAT(str, " and sum = ");
    -> set str = CONCAT(str,CAST(sum as char(3)));
    -> return str;
    -> end]
Query OK, 0 rows affected (0.01 sec)

mysql> select 42CSfibonacci(6)]
+--------------------------+
| 42CSfibonacci(6)         |
+--------------------------+
| 0 1 1 2 3 5 and sum = 12 |
+--------------------------+
1 row in set (0.00 sec)
```

```
mysql> create function 42CSfibonacci(n int) returns varchar(1000)
    -> begin
    -> declare i int default 3;
    -> declare a,temp int default 0;
    -> declare b,sum int default 1;
    -> declare str varchar(1000);
    -> set str = CAST(a as char(2));
    -> set str = CONCAT(str," ");
    -> myloop:loop
    -> if i>n then
    -> leave myloop;
    -> else
    -> set temp = a + b;
    -> set a = b;
    -> set b = temp;
    -> set i = i + 1;
    -> set sum = sum + temp;
    -> set str = CONCAT(str,CAST(a as char(2)));
    -> set str = CONCAT(str, " ");
    -> end if;
    -> end loop;
    -> set str = CONCAT(str,CAST(b as char(2)));
    -> set str = CONCAT(str, " and sum = ");
    -> set str = CONCAT(str,CAST(sum as char(3)));
    -> return str;
    -> end]
Query OK, 0 rows affected (0.01 sec)

mysql> select 42CSfibonacci(6)]
+--------------------------+
| 42CSfibonacci(6)         |
+--------------------------+
| 0 1 1 2 3 5 and sum = 12 |
+--------------------------+
1 row in set (0.00 sec)
```

Procedure:

```
mysql> create procedure 42CSfibonacci(In n int,□ut retStr varchar(1000))
    -> begin
    -> declare i int default 3;
    -> declare a,temp int default 0;
    -> declare b,sum int default 1;
    -> declare str varchar(1000);
    -> set str = CAST(a as char(2));
    -> set str = C□NCAT(str," ");
    -> myloop: loop
    -> if i>n then
    -> leave myloop;
    -> else
    -> set temp = a + b;
    -> set a = b;
    -> set b = temp;
    -> set i = i + 1;
    -> set sum = sum + temp;
    -> set str = C□NCAT(str,CAST(a as char(2)));
    -> set str = C□NCAT(str, " ");
    -> end if;
```

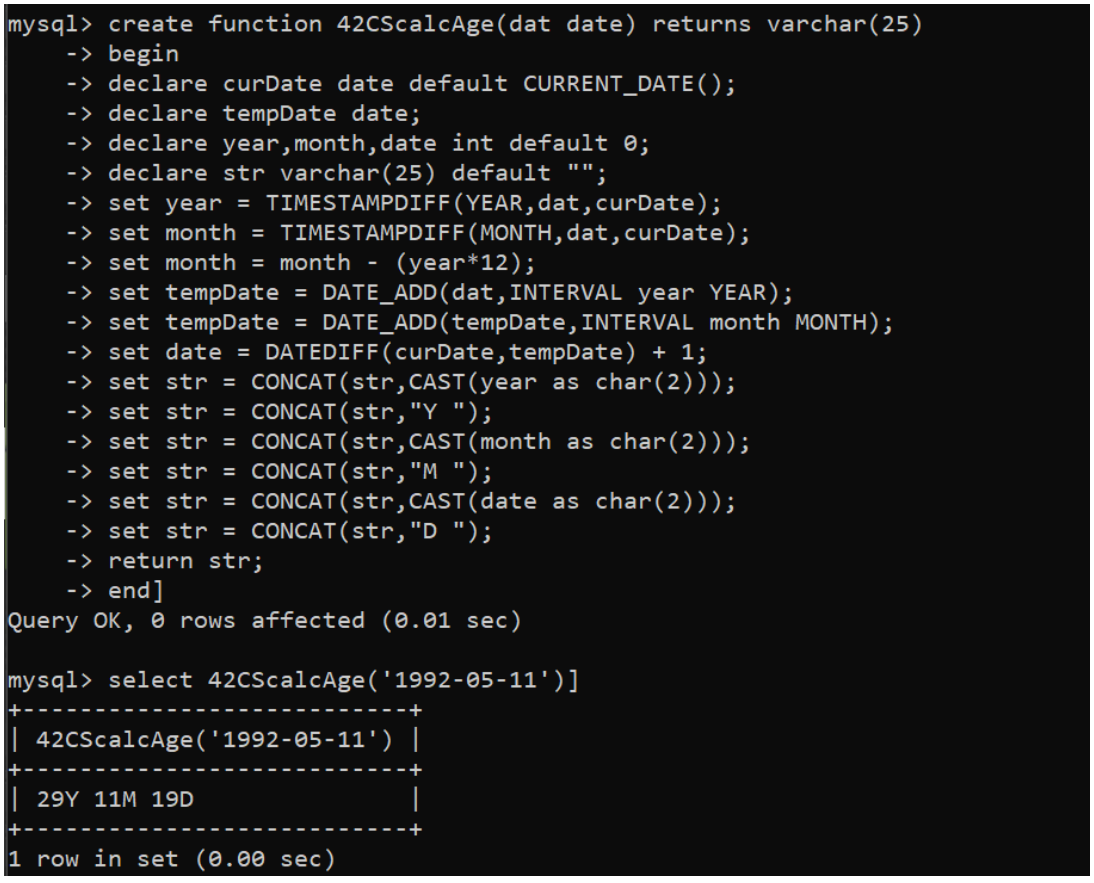
```
    -> end loop;
    -> set str = CONCAT(str,CAST(b as char(2)));
    -> set str = CONCAT(str, " and sum = ");
    -> set str = CONCAT(str,CAST(sum as char(3)));
    -> set retstr = str;
    -> end]
Query OK, 0 rows affected (0.01 sec)
mysql> call 42CSfibonacci(6,@series6)]
Query OK, 0 rows affected (0.00 sec)

mysql> select @series6]
+--------------------------+
| @series6                 |
+--------------------------+
| 0 1 1 2 3 5 and sum = 12 |
+--------------------------+
1 row in set (0.00 sec)
```

```
mysql> create procedure 42CSfibonacci(In n int,Out retStr varchar(1000))
    -> begin
    -> declare i int default 3;
    -> declare a,temp int default 0;
    -> declare b,sum int default 1;
    -> declare str varchar(1000);
    -> set str = CAST(a as char(2));
    -> set str = CONCAT(str," ");
    -> myloop:loop
    -> if i>n then
    -> leave myloop;
    -> else
    -> set temp = a + b;
    -> set a = b;
    -> set b = temp;
    -> set i = i + 1;
    -> set sum = sum + temp;
    -> set str = CONCAT(str,CAST(a as char(2)));
    -> set str = CONCAT(str, " ");
    -> end if;
    -> end loop;
    -> set str = CONCAT(str,CAST(b as char(2)));
    -> set str = CONCAT(str, " and sum = ");
    -> set str = CONCAT(str,CAST(sum as char(3)));
    -> set retstr = str;
    -> end]
Query OK, 0 rows affected (0.01 sec)

mysql> call 42CSfibonacci(6,@series6)]
Query OK, 0 rows affected (0.00 sec)

mysql> select @series6]
+--------------------------+
| @series6                 |
+--------------------------+
| 0 1 1 2 3 5 and sum = 12 |
+--------------------------+
1 row in set (0.00 sec)
```

Q4. Write a SQL function and stored procedure to calculate age.

Function:

```
mysql> create function 42CScalcAge(dat date) returns varchar(25)
    -> begin
    -> declare curDate date default CURRENT_DATE();
    -> declare tempDate date;
    -> declare year,month,date int default 0;
    -> declare str varchar(25) default "";
    -> set year = TIMESTAMPDIFF(YEAR,dat,curDate);
    -> set month = TIMESTAMPDIFF(MONTH,dat,curDate);
    -> set month = month - (year*12);
    -> set tempDate = DATE_ADD(dat,INTERVAL year YEAR);
    -> set tempDate = DATE_ADD(tempDate,INTERVAL month MONTH);
    -> set date = DATEDIFF(curDate,tempDate) + 1;
    -> set str = CONCAT(str,CAST(year as char(2)));
    -> set str = CONCAT(str,"Y ");
    -> set str = CONCAT(str,CAST(month as char(2)));
    -> set str = CONCAT(str,"M ");
    -> set str = CONCAT(str,CAST(date as char(2)));
    -> set str = CONCAT(str,"D ");
    -> return str;
    -> end]
Query OK, 0 rows affected (0.01 sec)

mysql> select 42CScalcAge('1992-05-11')]
+---------------------------+
| 42CScalcAge('1992-05-11') |
+---------------------------+
| 29Y 11M 19D               |
+---------------------------+
1 row in set (0.00 sec)
```



Procedure:

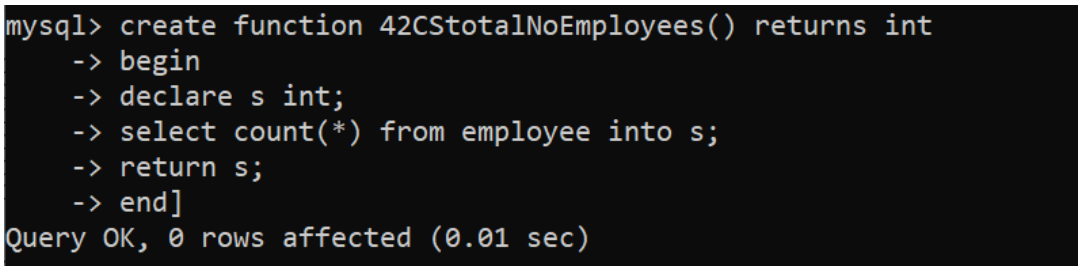
```
mysql> create procedure 42CScalcAge(In dat date,Out retStr varchar(25))
    -> begin
    -> declare curDate date default CURRENT_DATE();
    -> declare tempDate date;
    -> declare year,month,date int default 0;
    -> declare str varchar(25) default "";
    -> set year = TIMESTAMPDIFF(YEAR,dat,curDate);
    -> set month = TIMESTAMPDIFF(MONTH,dat,curDate);
    -> set month = month - (year*12);
    -> set tempDate = DATE_ADD(dat,INTERVAL year YEAR);
    -> set tempDate = DATE_ADD(tempDate,INTERVAL month MONTH);
    -> set date = DATEDIFF(curDate,tempDate) + 1;
    -> set str = CONCAT(str,CAST(year as char(2)));
    -> set str = CONCAT(str,"Y ");
    -> set str = CONCAT(str,CAST(month as char(2)));
    -> set str = CONCAT(str,"M ");
    -> set str = CONCAT(str,CAST(date as char(2)));
    -> set str = CONCAT(str,"D ");
    -> set retStr = str;
    -> end]
Query OK, 0 rows affected (0.01 sec)

mysql> call 42CScalcAge('1992-05-11',@age)]
Query OK, 0 rows affected (0.01 sec)

mysql> select @age]
+--------------+
| @age         |
+--------------+
| 29Y 11M 19D  |
+--------------+
1 row in set (0.00 sec)
```

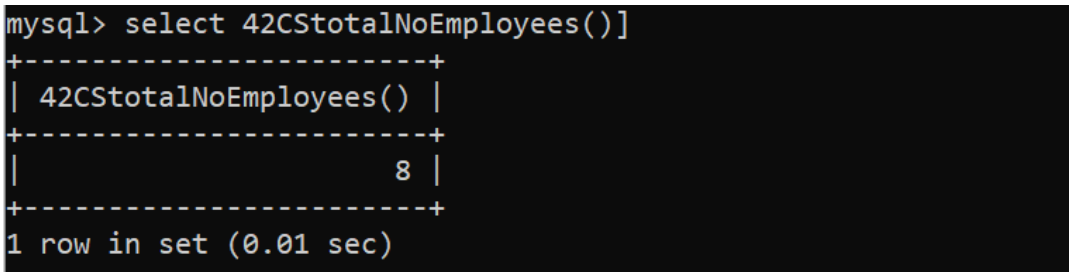

```
mysql> create procedure 42CScalcAge(In dat date,Out retStr varchar(25))
    -> begin
    -> declare curDate date default CURRENT_DATE();
    -> declare tempDate date;
    -> declare year,month,date int default 0;
    -> declare str varchar(25) default "";
    -> set year = TIMESTAMPDIFF(YEAR,dat,curDate);
    -> set month = TIMESTAMPDIFF(MONTH,dat,curDate);
    -> set month = month - (year*12);
    -> set tempDate = DATE_ADD(dat,INTERVAL year YEAR);
    -> set tempDate = DATE_ADD(tempDate,INTERVAL month MONTH);
    -> set date = DATEDIFF(curDate,tempDate) + 1;
    -> set str = CONCAT(str,CAST(year as char(2)));
    -> set str = CONCAT(str,"Y ");
    -> set str = CONCAT(str,CAST(month as char(2)));
    -> set str = CONCAT(str,"M ");
    -> set str = CONCAT(str,CAST(date as char(2)));
    -> set str = CONCAT(str,"D ");
    -> set retStr = str;
    -> end]
Query OK, 0 rows affected (0.01 sec)

mysql> call 42CScalcAge('1992-05-11',@age)]
Query OK, 0 rows affected (0.01 sec)

mysql> select @age]
+--------------+
| @age         |
+--------------+
| 29Y 11M 19D  |
+--------------+
1 row in set (0.00 sec)
```

Q5. Write a SQL function and stored procedure to count the total number of employees table.

Function:

```
mysql> create function 42CStotalNoEmployees() returns int
    -> begin
    -> declare s int;
    -> select count(*) from employee into s;
    -> return s;
    -> end]
Query OK, 0 rows affected (0.01 sec)

mysql> select 42CStotalNoEmployees()]
+------------------------+
| 42CStotalNoEmployees() |
+------------------------+
|                      8 |
+------------------------+
1 row in set (0.01 sec)
```





Procedure:

```
mysql> create procedure 42CStotalNoEmployees(out count int)
    -> begin
    -> declare s int;
    -> select count(*) from employee into s;
    -> set count = s;
    -> end]
Query OK, 0 rows affected (0.01 sec)

mysql> call 42CStotalNoEmployees(@result)]
Query OK, 1 row affected (0.01 sec)

mysql> select @result]
+---------+
| @result |
+---------+
|       8 |
+---------+
1 row in set (0.00 sec)
```

```
mysql> create procedure 42CStotalNoEmployees(Out count int)
    -> begin
    -> declare s int;
    -> select count(*) from employee into s;
    -> set count = s;
    -> end]
Query OK, 0 rows affected (0.01 sec)

mysql> call 42CStotalNoEmployees(@result)]
Query OK, 1 row affected (0.01 sec)

mysql> select @result]
+---------+
| @result |
+---------+
|       8 |
+---------+
1 row in set (0.00 sec)
```

Q6. Write a SQL function and stored procedure to calculate the budget of the department.

Function:

```
mysql> create function 42CScalcBudget(dept varchar(30)) returns int
    -> begin
    -> declare deptnumber varchar(5);
    -> declare budget int default 0;
    -> select Dnumber from department where Dname = dept into deptnumber;
    -> select sum(salary) from employee where Dno = deptnumber into budget;
    -> return budget;
    -> end]
Query OK, 0 rows affected (0.01 sec)


mysql> select 42CScalcBudget('Research')]
+----------------------------+
| 42CScalcBudget('Research') |
+----------------------------+
|                     133000 |
+----------------------------+
1 row in set (0.01 sec)
```

```
mysql> create function 42CScalcBudget(dept varchar(30)) returns int
    -> begin
    -> declare deptnumber varchar(5);
    -> declare budget int default 0;
    -> select Dnumber from department where Dname = dept into deptnumber;
    -> select sum(salary) from employee where Dno = deptnumber into budget;
    -> return budget;
    -> end]
Query OK, 0 rows affected (0.01 sec)

mysql> select 42CScalcBudget('Research')]
+----------------------------+
| 42CScalcBudget('Research') |
+----------------------------+
|                     133000 |
+----------------------------+
1 row in set (0.01 sec)
```

Procedure:

```
mysql> create procedure 42CScalcBudget( In dept varchar(30), Out budget int)
    -> begin
    -> declare deptnumber varchar(5);
    -> declare sumSal int default 0;
    -> select Dnumber from department where Dname = dept into deptnumber;
    -> select sum(salary) from employee where Dno = deptnumber into sumSal;
    -> set budget = sumSal;
    -> end]
Query OK, 0 rows affected (0.01 sec)

mysql> call 42CScalcBudget('Research',@Budget)]
Query OK, 1 row affected (0.00 sec)

mysql> select @Budget]
+---------+
| @Budget |
+---------+
|  133000 |
+---------+
1 row in set (0.00 sec)
```

```
mysql> create procedure 42CScalcBudget(In dept varchar(30),Out budget int)
    -> begin
    -> declare deptnumber varchar(5);
    -> declare sumSal int default 0;
    -> select Dnumber from department where Dname = dept into deptnumber;
    -> select sum(salary) from employee where Dno = deptnumber into sumSal;
    -> set budget = sumSal;
    -> end]
Query OK, 0 rows affected (0.01 sec)

mysql> call 42CScalcBudget('Research',@Budget)]
Query OK, 1 row affected (0.00 sec)

mysql> select @Budget]
+---------+
| @Budget |
+---------+
|  133000 |
+---------+
1 row in set (0.00 sec)
```

Q7. Write a SQL function and stored procedure to print the following message.

Function:

```
mysql> create function 42CSprintMsg(name varchar(50)) returns varchar(100)
    -> begin
    -> declare msg varchar(100) default "Hello ";
    -> set msg = CONCAT(msg,name);
    -> set msg = CONCAT(msg," How are you?");
    -> return msg;
    -> end]
Query OK, 0 rows affected (0.01 sec)


mysql> select 42CSprintMsg('Mohd Adil')]
+------------------------------+
| 42CSprintMsg('Mohd Adil')    |
+------------------------------+
| Hello Mohd Adil How are you? |
+------------------------------+
1 row in set (0.01 sec)
```

```
mysql> create function 42CSprintMsg(name varchar(50)) returns varchar(100)
    -> begin
    -> declare msg varchar(100) default "Hello ";
    -> set msg = CONCAT(msg,name);
    -> set msg = CONCAT(msg," How are you?");
    -> return msg;
    -> end]
Query OK, 0 rows affected (0.01 sec)

mysql> select 42CSprintMsg('Mohd Adil')]
+-----------------------------+
| 42CSprintMsg('Mohd Adil')   |
+-----------------------------+
| Hello Mohd Adil How are you? |
+-----------------------------+
1 row in set (0.01 sec)
```

Procedure:

```
mysql> create procedure 42CSprintMsg(In name varchar(50),□ut message varchar(100))
    -> begin
    -> declare msg varchar(100) default "Hello ";
    -> set msg = C□NCAT(msg,name);
    -> set msg = C□NCAT(msg," How are you?");
    -> set message = msg;
    -> end]
Query □K, 0 rows affected (0.01 sec)

mysql> call 42CSprintMsg('Mohd Adil',@message)]
Query □K, 0 rows affected (0.00 sec)

mysql> select @message]
+-----------------------------+
| @message                    |
+-----------------------------+
| Hello Mohd Adil How are you? |
+-----------------------------+
1 row in set (0.00 sec)
```

```
mysql> create procedure 42CSprintMsg(In name varchar(50),Out message varchar(100))
    -> begin
    -> declare msg varchar(100) default "Hello ";
    -> set msg = CONCAT(msg,name);
    -> set msg = CONCAT(msg," How are you?");
    -> set message = msg;
    -> end]
Query OK, 0 rows affected (0.01 sec)

mysql> call 42CSprintMsg('Mohd Adil',@message)]
Query OK, 0 rows affected (0.00 sec)

mysql> select @message]
+-----------------------------+
| @message                    |
+-----------------------------+
| Hello Mohd Adil How are you? |
+-----------------------------+
1 row in set (0.00 sec)
```

1. Employee

```
mysql> create table Employee (
    -> Eid varchar (5) primary key,
    -> Ename varchar(50),
    -> Esal varchar(6));
Query OK, 0 rows affected (0.10 sec)
```

2. LogTable

```
mysql> create table LogTable(
    -> User varchar(50),
    -> Operation varchar(20),
    -> Time varchar(20),
    -> Peid varchar(5),
    -> Pename varchar(50),
    -> Pesal varchar(6),
    -> Neid varchar(5),
    -> Nename varchar(50),
    -> Nesal varchar(6));
Query OK, 0 rows affected (0.04 sec)
```

Insert Trigger:

```
mysql> delimiter ]
mysql> create trigger insertTrig after insert on Employee for each row
    -> begin
```

```
    -> insert into LogTable values (user(),'Insert',now(),'-','-','-
',new.Eid,new.Ename,new.Esal);
    -> end ]
Query OK, 0 rows affected (0.03 sec)


mysql> insert into Employee
    -> values ('E0001','Mohd Adil','79901') ]
Query OK, 1 row affected (0.01 sec)


mysql> select * from LogTable]
+----------------+-----------+---------------------+------+--------+-------+-------+-----------+-------+
| User           | Operation | Time                | Peid | Pename | Pesal | Neid  | Nename    | Nesal |
+----------------+-----------+---------------------+------+--------+-------+-------+-----------+-------+
| root@localhost | Insert    | 2022-04-30 15:01:47 | -    | -      | -     | E0001 | Mohd Adil | 79901 |
+----------------+-----------+---------------------+------+--------+-------+-------+-----------+-------+
1 row in set (0.00 sec)
```

Update Trigger:

```
mysql> create trigger updateTrig after update on Employee for each row
    -> begin
    -> insert into LogTable
    -> values(user(),'Update',now(),old.Eid,old.Ename,old.Esal,new.Eid,new.Ename,new.Esal);
    -> end ]
Query OK, 0 rows affected (0.01 sec)
mysql> update Employee set Esal='10010' where Eid='E0001' ]
Query OK, 1 row affected (0.02 sec)
Rows matched: 1  Changed: 1  Warnings: 0


mysql> select * from logTable]
+----------------+-----------+---------------------+-------+---------+-------+-------+-----------+-------+
| User           | Operation | Time                | Peid  | Pename  | Pesal | Neid  | Nename    | Nesal
|
+----------------+-----------+---------------------+-------+---------+-------+-------+-----------+-------+
| root@localhost | Insert    | 2022-04-30 15:01:47 | -     | -       | -     | E0001 | Mohd Adil | 79901
|
| root@localhost | Update    | 2022-04-30 15:05:16 | E0001 | Mohd Adil | 79901 | E0001 | Mohd Adil | 10010
|
+----------------+-----------+---------------------+-------+---------+-------+-------+-----------+-------+
2 rows in set (0.00 sec)
```

Delete Trigger:

```
mysql> create trigger deleteTrig after delete on Employee for each row
    -> begin
    -> insert into LogTable
    -> values (user(),'Delete',now(),old.Eid,old.Ename,old.Esal,'-','-','-');
    -> end ]
Query OK, 0 rows affected (0.01 sec)

mysql> delete from Employee where Eid='E0001' ]
Query OK, 1 row affected (0.01 sec)

mysql> select * from logTable]
+----------------+-----------+-------------------+-------+-----------+-------+-------+-----------+-------+
| User           | Operation | Time              | Peid  | Pename    | Pesal | Neid  | Nename    | Nesal |
+----------------+-----------+-------------------+-------+-----------+-------+-------+-----------+-------+
| root@localhost | Insert    | 2022-04-30 15:01:47 | -     | -         | -     | E0001 | Mohd Adil | 79901 |
| root@localhost | Update    | 2022-04-30 15:05:16 | E0001 | Mohd Adil | 79901 | E0001 | Mohd Adil | 10010 |
| root@localhost | Delete    | 2022-04-30 15:08:24 | E0001 | Mohd Adil | 10010 | -     | -         | -     |
+----------------+-----------+-------------------+-------+-----------+-------+-------+-----------+-------+
3 rows in set (0.00 sec)
```

Cursor

```
mysql> select * from employee]
+-------+-------+-------+
| Eid   | Ename | Esal  |
+-------+-------+-------+
| E0002 | ABC   | 30000 |
| E0003 | XYZ   | 40000 |
| E0004 | DEF   | 50000 |
+-------+-------+-------+
3 rows in set (0.00 sec)

mysql> create procedure mypro(out s varchar(6))
    -> begin
```

```
    -> declare f int default 1;
    -> declare str longtext default "";
    -> declare cur cursor for select Esal from Employee ;
    -> declare continue handler for not found set f=0;
    -> open cur;
    -> myloop: loop
    -> fetch cur into s;
    -> if f = 0 then
    -> leave myloop;
    -> else
    -> set str = CONCAT(str," ",s);
    -> end if;
    -> end loop;
    -> close cur;
    -> select str;
    -> end ]
Query OK, 0 rows affected (0.01 sec)

mysql> call mypro(@s)]
+--------------------+
| str                |
+--------------------+
|  30000 40000 50000 |
+--------------------+
1 row in set (0.00 sec)

Query OK, 0 rows affected (0.01 sec)
```

Thank You