
DATABASE MANAGEMENT SYSTEM

LAB ASSIGNMENT-3

DATABASE USED: MYSQL

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CLASS: B.TECH(COMP. ENGG.)

ROLL NO-: 11CSS35

1)Write a Function and Procedure to show “Hello + ‘var name’ + “how are you”;

a)Function

create function func135(a varchar(20)) returns varchar(40)

begin

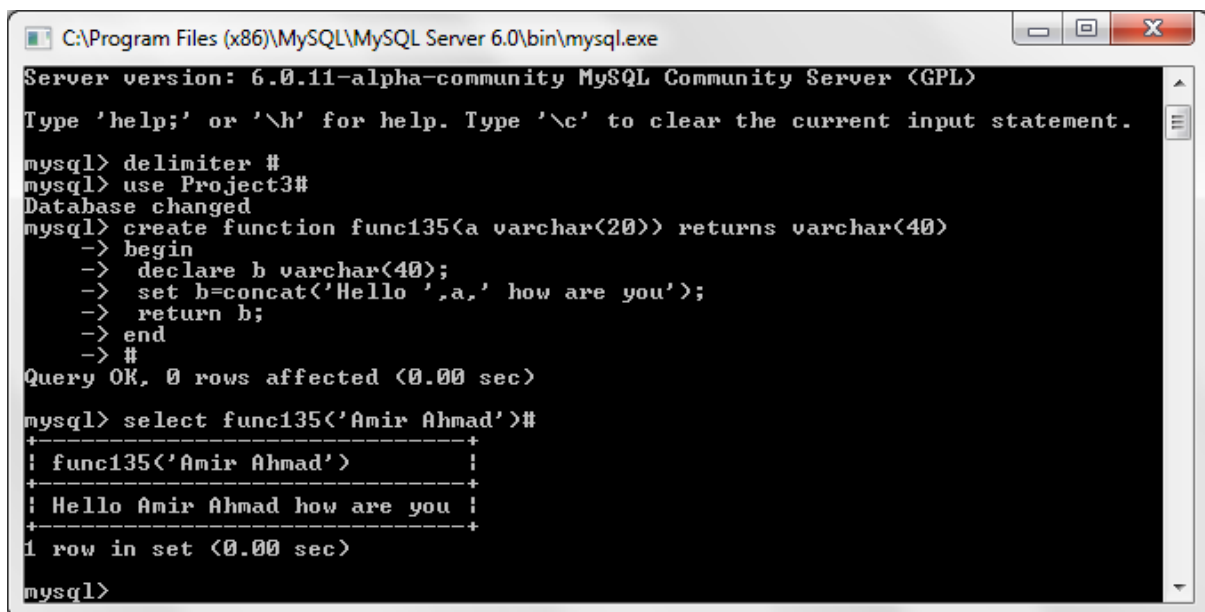
declare b varchar(40);

set b=concat('Hello ',a,' how are you');

return b;

end

#



```
C:\Program Files (x86)\MySQL\MySQL Server 6.0\bin\mysql.exe
Server version: 6.0.11-alpha-community MySQL Community Server (GPL)
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> delimiter #
mysql> use Project3#
Database changed
mysql> create function func135(a varchar(20)) returns varchar(40)
-> begin
-> declare b varchar(40);
-> set b=concat('Hello ',a,' how are you');
-> return b;
-> end
-> #
Query OK, 0 rows affected (0.00 sec)

mysql> select func135('Amir Ahmad')#
+-----+
| func135('Amir Ahmad') |
+-----+
| Hello Amir Ahmad how are you |
+-----+
1 row in set (0.00 sec)

mysql>
```

b)Procedure

create procedure proc135(in a varchar(20),out b varchar(40))

begin

set b=concat('Hello ',a,' how are you');

end

#

```
C:\Program Files (x86)\MySQL\MySQL Server 6.0\bin\mysql.exe

mysql> create procedure proc135(in a varchar(20),out b varchar(40))
-> begin
->   set b=concat('Hello ',a,' how are you');
-> end
-> #
Query OK, 0 rows affected (0.00 sec)

mysql> call proc135('Amir Ahmad',@str)#
Query OK, 0 rows affected (0.00 sec)

mysql> select @str
-> #
+-----+
| @str |
+-----+
| Hello Amir Ahmad how are you |
+-----+
1 row in set (0.00 sec)

mysql> _
```

2)Write a Function and Procedure to find out the number of entries in the Table;

a) Function

create table employee235

(

name varchar(20),

depart int

)#

insert into employee235 values ('Amir',1)#

insert into employee235 values ('Abdul',2),('Adil',3)#

create function func235() returns int

begin

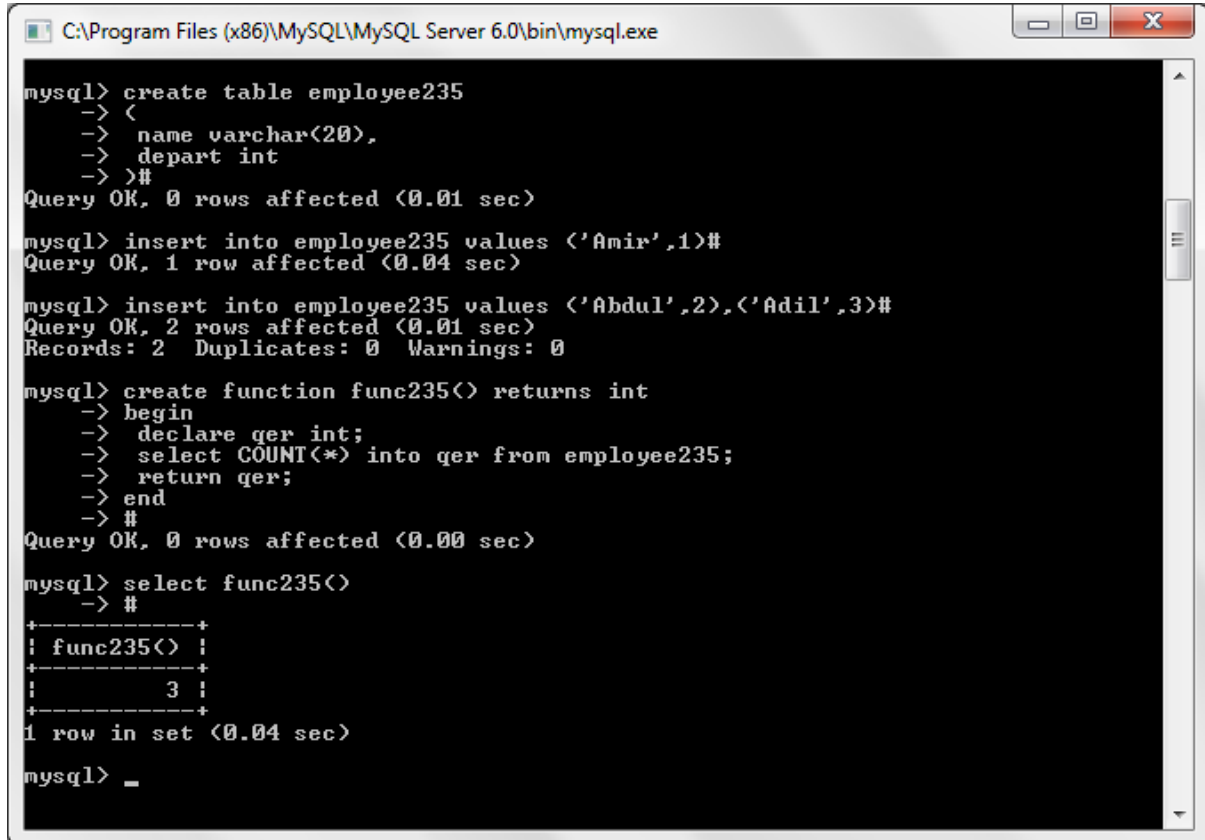
declare qer int;

select COUNT(*) into qer from employee235;

return qer;

end

#



```
C:\Program Files (x86)\MySQL\MySQL Server 6.0\bin\mysql.exe

mysql> create table employee235
-> <
-> name varchar(20),
-> depart int
-> )#
Query OK, 0 rows affected (0.01 sec)

mysql> insert into employee235 values ('Amir',1)#
Query OK, 1 row affected (0.04 sec)

mysql> insert into employee235 values ('Abdul',2),('Adil',3)#
Query OK, 2 rows affected (0.01 sec)
Records: 2  Duplicates: 0  Warnings: 0

mysql> create function func235() returns int
-> begin
-> declare qer int;
-> select COUNT(*) into qer from employee235;
-> return qer;
-> end
-> #
Query OK, 0 rows affected (0.00 sec)

mysql> select func235()
-> #
+-----+
! func235() !
+-----+
!          3 !
+-----+
1 row in set (0.04 sec)

mysql> _
```

b)Procedure

create procedure proc235(out b int)

begin

select COUNT(*) into b from employee235;

end

#

```
C:\Program Files (x86)\MySQL\MySQL Server 6.0\bin\mysql.exe

mysql> create procedure proc235(out b int)
-> begin
->   select COUNT(*) into b from employee235;
-> end
-> #
Query OK, 0 rows affected (0.00 sec)

mysql> call proc235(@i)#
Query OK, 0 rows affected (0.00 sec)

mysql> select @i
-> #
+-----+
| @i    |
+-----+
|      3 |
+-----+
1 row in set (0.00 sec)

mysql> _
```

3)Write A Function and Procedure to find the factorial of the number;

a)Function

create function func335(a int) returns int

begin

declare f,i int;

set f=1;

set i=1;

myloop: loop

if i>a then

leave myloop;

else

set f=f*i;

set i=i+1;

iterate myloop;

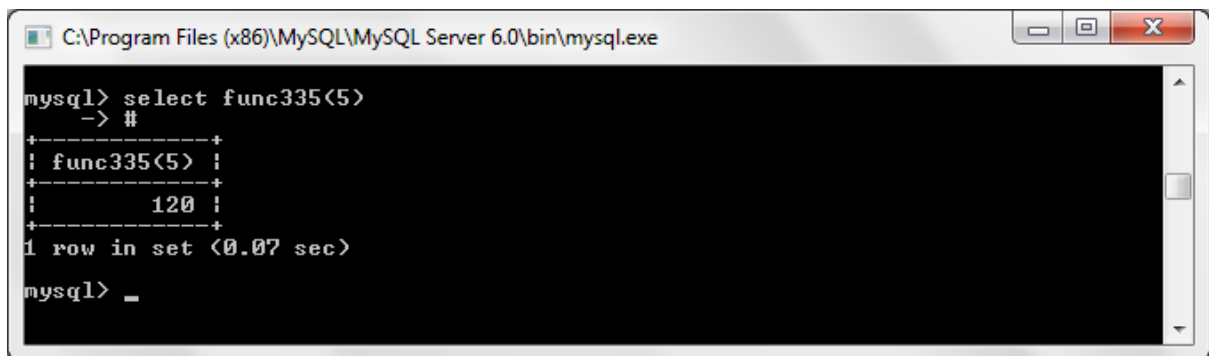
end if;

end loop;

return f;

end

#



A screenshot of a MySQL command window. The title bar shows the path 'C:\Program Files (x86)\MySQL\MySQL Server 6.0\bin\mysql.exe'. The command prompt shows the user entering 'mysql> select func335<5>' followed by a prompt '-> #'. The output is displayed in a table format with a single row containing the value '120'. Below the table, it says '1 row in set <0.07 sec>'. The prompt 'mysql> _' is visible at the bottom.

```
mysql> select func335<5>
-> #
+-----+
| func335<5> |
+-----+
|          120 |
+-----+
1 row in set <0.07 sec>
mysql> _
```

b)Procedure

create procedure proc335(in a int ,out f int)

begin

declare i int;

set f=1;

set i=1;

myloop: loop

if i>a then

leave myloop;

else

set f=f*i;

set i=i+1;

iterate myloop;

end if;

end loop;

end

#

```
C:\Program Files (x86)\MySQL\MySQL Server 6.0\bin\mysql.exe
mysql> call proc335<5,0a>
-> #
Query OK, 0 rows affected (0.00 sec)

mysql> select 0a
-> #
+-----+
| 0a    |
+-----+
| 120   |
+-----+
1 row in set (0.00 sec)

mysql>
```

4)Write a Function and Procedure to find the average of three numbers;

a) Function

create function func435(a double,b double,c double) returns double

begin

declare avg double;

declare sum double;

set sum=a+b+c;

set avg=sum/3;

return avg;

end

#

```
C:\Program Files (x86)\MySQL\MySQL Server 6.0\bin\mysql.exe
mysql> select func435<4,5,6>
-> #
+-----+
| func435<4,5,6> |
+-----+
| 5             |
+-----+
1 row in set (0.14 sec)

mysql> _
```

b)Procedure

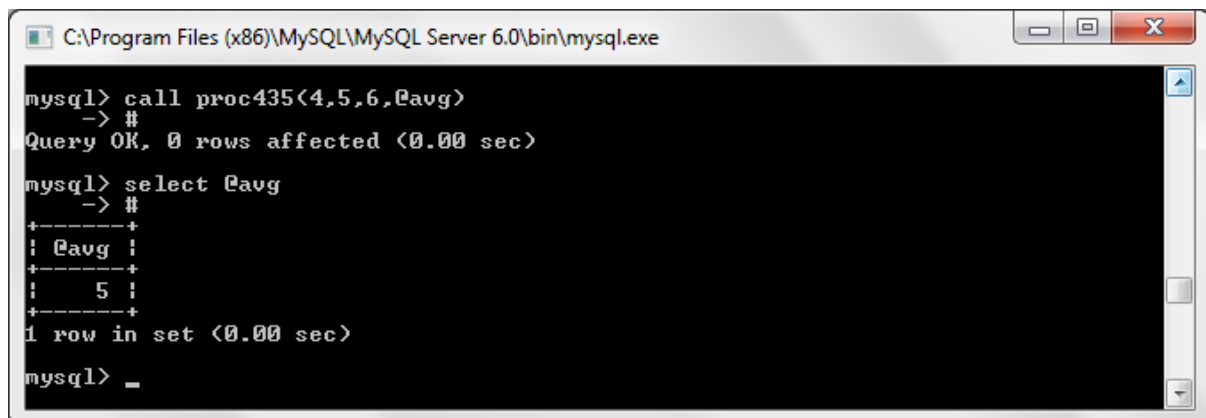
create procedure proc435(in a double,in b double,in c double,out avg double)

begin

set avg=(a+b+c)/3;

end

#



```
C:\Program Files (x86)\MySQL\MySQL Server 6.0\bin\mysql.exe

mysql> call proc435(4,5,6,@avg)
-> #
Query OK, 0 rows affected (0.00 sec)

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

mysql> _
```