

Last login: Wed Mar 20 13:29:44 on ttys000
macbook@Kshitijs-MacBook-Air ~ % mysql -u root
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 43
Server version: 8.3.0 Homebrew

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

```
mysql> delimiter //
mysql> create procedure ex1()
-> begin
-> select * from emp;
-> end//
ERROR 1046 (3D000): No database selected
mysql> use impact
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A
```

```
Database changed
mysql> delimiter //
mysql> create procedure ex1()
-> begin
-> select * from emp;
-> end //
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> delimiter ;
mysql> call ex1();
```

empno	ename	job	mgr	hiredate	sal	comm	deptno
7369	SMITH	CLERK	7902	1980-12-17	800.00	NULL	20
7499	ALLEN	SALESMAN	7698	1981-02-20	1600.00	300.00	30
7521	WARD	SALESMAN	7698	1981-02-22	1250.00	500.00	30
7566	JONES	MANAGER	7839	1981-04-02	2975.00	NULL	20
7654	MARTIN	SALESMAN	7698	1981-09-28	1250.00	1400.00	30
7698	BLAKE	MANAGER	7839	1981-05-01	2850.00	NULL	30
7782	CLARK	MANAGER	7839	1981-06-09	2450.00	NULL	10
7788	SCOTT	ANALYST	7566	1982-12-09	3000.00	NULL	20
7839	KING	PRESIDENT	NULL	1981-11-17	5000.00	NULL	10
7844	TURNER	SALESMAN	7698	1981-09-08	1500.00	0.00	30
7876	ADAMS	CLERK	7788	1983-01-12	1100.00	NULL	20
7900	JAMES	CLERK	7698	1981-12-03	950.00	NULL	30
7902	FORD	ANALYST	7566	1981-12-03	3000.00	NULL	20
7934	MILLER	CLERK	7782	1982-01-23	1300.00	NULL	10
1001	gopal	NULL	NULL	NULL	4000.00	NULL	NULL
1002	Queen	Rest	NULL	NULL	NULL	NULL	NULL
1003	Dasi	Kaam	NULL	NULL	NULL	NULL	NULL
1003	Arjit	sing	NULL	NULL	NULL	NULL	NULL
7143	RAJESH	NULL	NULL	NULL	5000.00	NULL	30

19 rows in set (0.01 sec)

Query OK, 0 rows affected (0.01 sec)

```
mysql> show procedures status where db="impact";
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'proce
dures status where db="impact"' at line 1
mysql> show procedure status where db="impact";
```

Db	Name	Type	Language	Definer	Modified	Created	Security_type	Comment	character_set_client	collation
_connection	Database	Collation								
impact	ex1	PROCEDURE	SQL	root@localhost	2024-03-20 13:31:43	2024-03-20 13:31:43	DEFINER		utf8mb4	utf8mb4_0
900_ai_ci	utf8mb4_0900_ai_ci									

1 row in set (0.01 sec)

```
mysql> delimiter //
mysql> create procedure ex2(in dno decimal
-> )
-> begin
-> select * from emp where deptno=dno;
-> end //
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> delimiter ;
mysql> call ex2(10);
```

empno	ename	job	mgr	hiredate	sal	comm	deptno
7782	CLARK	MANAGER	7839	1981-06-09	2450.00	NULL	10
7839	KING	PRESIDENT	NULL	1981-11-17	5000.00	NULL	10
7934	MILLER	CLERK	7782	1982-01-23	1300.00	NULL	10

3 rows in set (0.00 sec)

Query OK, 0 rows affected (0.00 sec)

```
mysql> call ex2(20);
```

empno	ename	job	mgr	hiredate	sal	comm	deptno
7369	SMITH	CLERK	7902	1980-12-17	800.00	NULL	20
7566	JONES	MANAGER	7839	1981-04-02	2975.00	NULL	20
7788	SCOTT	ANALYST	7566	1982-12-09	3000.00	NULL	20
7876	ADAMS	CLERK	7788	1983-01-12	1100.00	NULL	20
7902	FORD	ANALYST	7566	1981-12-03	3000.00	NULL	20

5 rows in set (0.00 sec)

Query OK, 0 rows affected (0.00 sec)

```
mysql> call ex2(30);
```

empno	ename	job	mgr	hiredate	sal	comm	deptno
7499	ALLEN	SALESMAN	7698	1981-02-20	1600.00	300.00	30

7521	WARD	SALESMAN	7698	1981-02-22	1250.00	500.00	30
7654	MARTIN	SALESMAN	7698	1981-09-28	1250.00	1400.00	30
7698	BLAKE	MANAGER	7839	1981-05-01	2850.00	NULL	30
7844	TURNER	SALESMAN	7698	1981-09-08	1500.00	0.00	30
7900	JAMES	CLERK	7698	1981-12-03	950.00	NULL	30
7143	RAJESH	NULL	NULL	NULL	5000.00	NULL	30

7 rows in set (0.00 sec)

Query OK, 0 rows affected (0.00 sec)

```
mysql> delimiter //
mysql> create procedure ex3(out as decimal)
-> begin
-> select max(sal) into as from emp;
-> end //
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'as decimal)'
begin
select max(sal) into as from emp;
end' at line 1
mysql> delimiter //
mysql> create procedure ex3(out ms decimal)
-> begin
-> select max(sal) into ms from emp;
-> end //
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> delimiter ;
mysql> call ex3(@s);
Query OK, 1 row affected (0.01 sec)
```

```
mysql> select @s;
+-----+
| @s    |
+-----+
| 5000  |
+-----+
1 row in set (0.00 sec)
```

```
mysql> delimiter //
mysql> create procedure ex4(in empno int,out empkanaam varchar(20))
-> begin
-> select ename from emp where empno=empno;
-> end //
Query OK, 0 rows affected (0.00 sec)
```

```
mysql> delimiter ;
mysql> call ex4(7499);
ERROR 1318 (42000): Incorrect number of arguments for PROCEDURE impact.ex4; expected 2, got 1
mysql> call ex4(7499,@o);
```

```
+-----+
| ename |
+-----+
| SMITH |
| ALLEN |
| WARD  |
| JONES |
| MARTIN |
| BLAKE |
| CLARK |
| SCOTT |
| KING  |
| TURNER |
| ADAMS |
| JAMES |
| FORD  |
| MILLER |
| gopal |
| Queen |
| Dasi  |
| Arjit |
| RAJESH |
+-----+
19 rows in set (0.00 sec)
```

Query OK, 0 rows affected (0.00 sec)

```
mysql> drop procedure ex4;
Query OK, 0 rows affected (0.00 sec)
```

```
mysql> delimiter //
mysql> create procedure ex4(in empno int,out empkanaam varchar(20))
-> begin
-> ;
-> //
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '' at line 2
mysql> ccreate procedure ex4(in empkano int,out empkanaam varchar(20))
-> begin;
-> //
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'ccreate procedure ex4(in empkano int,out empkanaam varchar(20))
begin' at line 1
mysql> create procedure ex4(in empkano int,out empkanaam varchar(20))
-> begin
-> select ename from emp where empno=empkano;
-> end //
Query OK, 0 rows affected (0.00 sec)
```

```
mysql> delimiter ;
mysql> call ex5(7499,@o);
ERROR 1305 (42000): PROCEDURE impact.ex5 does not exist
mysql> call ex4(7499,@o);
```

```
+-----+
| ename |
+-----+
| ALLEN |
+-----+
1 row in set (0.00 sec)
```

Query OK, 0 rows affected (0.00 sec)

```
mysql> select
-> @o;
+-----+
| @o    |
```

```

+-----+
| NULL |
+-----+
1 row in set (0.00 sec)

mysql> show procedure status where db="impac";
Empty set (0.00 sec)

mysql> show procedure status where db="impact";
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| Db      | Name      | Type      | Language | Definer      | Modified      | Created      | Security_type | Comment      | character_set_client | collation      |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| impact | ex1       | PROCEDURE | SQL      | root@localhost | 2024-03-20 13:31:43 | 2024-03-20 13:31:43 | DEFINER      |              | utf8mb4           | utf8mb4_0     |
| impact | ex2       | PROCEDURE | SQL      | root@localhost | 2024-03-20 13:41:17 | 2024-03-20 13:41:17 | DEFINER      |              | utf8mb4           | utf8mb4_0     |
| impact | ex3       | PROCEDURE | SQL      | root@localhost | 2024-03-20 13:46:42 | 2024-03-20 13:46:42 | DEFINER      |              | utf8mb4           | utf8mb4_0     |
| impact | ex4       | PROCEDURE | SQL      | root@localhost | 2024-03-20 13:54:49 | 2024-03-20 13:54:49 | DEFINER      |              | utf8mb4           | utf8mb4_0     |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)

mysql> drop procedure ex4;
Query OK, 0 rows affected (0.01 sec)

mysql> drop procedure ex4;
ERROR 1305 (42000): PROCEDURE impact.ex4 does not exist
mysql> show procedure status where db="impact";
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| Db      | Name      | Type      | Language | Definer      | Modified      | Created      | Security_type | Comment      | character_set_client | collation      |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| impact | ex1       | PROCEDURE | SQL      | root@localhost | 2024-03-20 13:31:43 | 2024-03-20 13:31:43 | DEFINER      |              | utf8mb4           | utf8mb4_0     |
| impact | ex2       | PROCEDURE | SQL      | root@localhost | 2024-03-20 13:41:17 | 2024-03-20 13:41:17 | DEFINER      |              | utf8mb4           | utf8mb4_0     |
| impact | ex3       | PROCEDURE | SQL      | root@localhost | 2024-03-20 13:46:42 | 2024-03-20 13:46:42 | DEFINER      |              | utf8mb4           | utf8mb4_0     |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
3 rows in set (0.01 sec)

mysql> delimiter //
mysql> create procedure ex_sum(in a int,in b int,out c int)
-> begin
-> set c=a+b;
-> end //
Query OK, 0 rows affected (0.00 sec)

mysql> delimiter ;
mysql> call ex_sum(10,30,@st);
Query OK, 0 rows affected (0.00 sec)

mysql> select @st;
+-----+
| @st |
+-----+
| 40 |
+-----+
1 row in set (0.00 sec)

mysql> delimiter //
mysql> create procedure ex5(inout v_n decimal)
-> begin
-> select max(sal) into v_n from emp where deptno=v_n;
-> end //
Query OK, 0 rows affected (0.00 sec)

mysql> delimiter ;
mysql> set @n=10;
Query OK, 0 rows affected (0.00 sec)

mysql> call ex5(@n);
Query OK, 1 row affected (0.01 sec)

mysql> select @n;
+-----+
| @n |
+-----+
| 5000 |
+-----+
1 row in set (0.00 sec)

mysql> delimiter //
mysql> create procedure ex6()
-> begin
-> declare a int1
-> //
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'int1'
at line 3
mysql> create procedure ex6()
-> begin
-> declare a int;
-> declare b varchar(10);
-> declare c float;
->
-> set a=10;
-> set b='welcome';
-> set c=300;
->
-> select a,b,c;
-> end //
Query OK, 0 rows affected (0.01 sec)

mysql> delimiter ;
mysql> call ex4();
ERROR 1305 (42000): PROCEDURE impact.ex4 does not exist
mysql> call ex6();
+-----+-----+-----+
| a      | b      | c      |
+-----+-----+-----+

```

```

+-----+-----+-----+
| 10 | welcome | 300 |
+-----+-----+-----+
1 row in set (0.00 sec)

Query OK, 0 rows affected (0.00 sec)

mysql> select a;
ERROR 1054 (42S22): Unknown column 'a' in 'field list'
mysql> select @a;
+-----+
| @a      |
+-----+
| NULL    |
+-----+
1 row in set (0.00 sec)

mysql> delimiter //
mysql> create procedure check_condition()
-> begin
-> if 5>4 then
-> "5 is greater";
-> else
-> "4 is greater";
-> end if;
-> end //
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '"5 is
greater";
else
"4 is greater";
end if;
end' at line 4
mysql> create procedure ex7(in a int,in b int)
-> begin
->
-> declare msg varchar(20);
->
-> if a>b then
-> set msg='a is greater than b';
-> else
-> set msg='b is greater than a';
-> end if;
->
-> select msg;
->
-> end //
Query OK, 0 rows affected (0.06 sec)

mysql> delimiter ;
mysql> call ex7(4,5);
+-----+
| msg      |
+-----+
| b is greater than a |
+-----+
1 row in set (0.01 sec)

Query OK, 0 rows affected (0.01 sec)

mysql> call ex7(5,4);
+-----+
| msg      |
+-----+
| a is greater than b |
+-----+
1 row in set (0.00 sec)

Query OK, 0 rows affected (0.00 sec)

mysql> delimiter //
mysql> create procedure ex8(in a int,in b int,in c int)
-> declare msg varchar(20);
-> if a>b>c then
-> set msg = "a is the greatest";
-> elseif b>;//
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'decla
re msg varchar(20);
if a>b>c then
set msg = "a is the greatest";
elseif b>' at line 2
mysql> create procedure ex8(in a int,in b int,in c int)
-> declare msg varchar(20);
-> if a>b>c or a>c>b then
-> set msg = "a is the greatest";
-> elseif b>a>c or b>c>a then
-> set msg = "b is the greatest";
-> elseif c>a>b or c>b>a then
-> set msg = "c is the greatest";
-> else
-> set msg="Enter distinct value";
-> end if;
->
-> select msg;
->
-> end //
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'decla
re msg varchar(20);
if a>b>c or a>c>b then
set msg = "a is the greatest";
e' at line 2
mysql> create procedure ex8(in a int,in b int,in c int)
-> declare msg varchar(20);
-> if a>b and a>c then
-> set msg = "a is the greatest";
-> elseif b>a and b>c then
-> set msg = "b is the greatest";
-> elseif c>a and c>b then
-> set msg = "c is the greatest";
-> else
-> set msg="Enter distinct value";
-> end if;
->
-> select msg;
->
-> end //
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'decla
re msg varchar(20);
```

```

if a>b and a>c then
set msg = "a is the greatest";
else' at line 2
mysql> .==mysql>
mysql> create procedure ex8(in a int,in b int,in c int)
-> begin
-> declare msg varchar(20);
-> if a>b>c or a>c>b then
-> set msg = "a is the greatest";
-> elseif b>a>c or b>c>a then
-> set msg = "b is the greatest";
-> elseif c>a>b or c>b>a then
-> set msg = "c is the greatest";
-> else
-> set msg="Enter distinct value";
-> end if;
->
-> select msg;
->
-> end //
Query OK, 0 rows affected (0.06 sec)

mysql> call ex8(4,5,6);
-> //
+-----+
| msg    |
+-----+
| Enter distinct value |
+-----+
1 row in set (0.00 sec)

Query OK, 0 rows affected (0.00 sec)

mysql> create procedure ex8(in a int,in b int,in c int)
-> ;
-> //
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '' at
line 1
mysql> drop procedure ex8;
-> //
Query OK, 0 rows affected (0.01 sec)

mysql> create procedure ex8(in a int,in b int,in c int)
-> begin
-> declare msg varchar(20);
-> if a>b and a>c then
->
-> set msg = "a is the greatest";
->
->
-> if b>a and b>c then
-> set msg = "b is the greatest";
-> set msg = "a is the greatest";//
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '' at
line 10
mysql> create procedure ex8(in a int,in b int,in c int)
->
-> begin
-> declare msg varchar(20);
-> if a>b and a>c then
-> set msg = "a is the greatest";
-> elseif b>c and b>a then
-> set msg = "b is the greatest";
-> elseif b>c and b>a then
-> set msg = "b is the greatest";
-> elseif c>a and c>b then
-> set msg = "c is the greatest";
-> else
-> set msg="Enter distinct value";
-> end if;
-> select msg;
-> end //
Query OK, 0 rows affected (0.00 sec)

mysql> delimiter ;
mysql> call ex8(1,2,3);
+-----+
| msg    |
+-----+
| c is the greatest |
+-----+
1 row in set (0.00 sec)

Query OK, 0 rows affected (0.00 sec)

mysql> call ex8(1,1,2);
+-----+
| msg    |
+-----+
| c is the greatest |
+-----+
1 row in set (0.00 sec)

Query OK, 0 rows affected (0.00 sec)

mysql> call ex8(1,1,1);
+-----+
| msg    |
+-----+
| Enter distinct value |
+-----+
1 row in set (0.00 sec)

Query OK, 0 rows affected (0.00 sec)

mysql> call ex8(1,3,1);
+-----+
| msg    |
+-----+
| b is the greatest |
+-----+
1 row in set (0.00 sec)

Query OK, 0 rows affected (0.00 sec)

mysql> call ex8(1,0,1);
+-----+
| msg    |
+-----+

```

```
+-----+  
| Enter distinct value |  
+-----+  
1 row in set (0.00 sec)
```

Query OK, 0 rows affected (0.00 sec)

mysql>