```
delimiter &&
create procedure fl(in x int , out result int)
  -> begin
  -> declare i int default 1;
  -> set result =i;
  -> while i<=x do
  -> set result = result * i;
  -> set i=i+1;
  -> end while;
  -> end&&
call fl(5,@g);
  -> &&
select @g&&
+----+
|@g |
+----+
| 120 |
+----+
1 row in set (0.00 sec)
create table employee (eid int, salary int);
insert into employee values (1,20),(2,30);
delimiter &&
mysql> create procedure increment()
  -> begin
  -> update employee set salary = salary *1.1;
  -> select * from employee;
  -> end &&
delimiter;
mysql> call increment();
+----+
| eid | salary |
+----+
        22 |
  1|
| 2|
        33 |
+----+
2 rows in set (0.02 sec)
```

q3

```
mysql> DELIMITER $$
mysql> CREATE FUNCTION fibonacci(num INT)
  -> RETURNS INT
  -> DETERMINISTIC
  -> BEGIN
      DECLARE fib1 INT DEFAULT 0;
      DECLARE fib2 INT DEFAULT 1;
  ->
      DECLARE fib3 INT DEFAULT 0:
  ->
      DECLARE str VARCHAR(255) DEFAULT '01';
  ->
      IF num = 1 THEN
  ->
        RETURN fib1;
  ->
      ELSEIF num = 2 THEN
  ->
        RETURN CONCAT(fib1, fib2);
  ->
  ->
      ELSE
        WHILE num > 2 DO
  ->
           SET fib3 = fib1 + fib2;
  ->
  ->
           SET fib1 = fib2;
           SET fib2 = fib3;
  ->
           SET num = num - 1;
  ->
           SET str = CONCAT(str, fib3);
  ->
        END WHILE;
  ->
  ->
        RETURN str;
      END IF;
  -> END $$
Query OK, 0 rows affected (0.02 sec)
mysql> DELIMITER;
mysql> call fibonacci(10)
ERROR 1305 (42000): PROCEDURE plsql1.fibonacci does not exist
mysql> select fibonacci(6);
+----+
| fibonacci(6) |
+----+
   11235 |
+----+
```

```
1 row in set (0.01 sec)
q4
create table customer (id int ,salary int);
insert into customer values (1,60000),(2,30000),(3,50000);
mysql> CREATE FUNCTION g()
  -> returns int
  -> DETERMINISTIC
  -> BEGIN
  -> declare i int;
  -> select count(*) into i from customer where salary > 40000;
  -> return i;
  -> END $$
Query OK, 0 rows affected (0.01 sec)
mysql> delimiter;
mysql> select g();
+----+
| g() |
+----+
| 2|
+----+
1 row in set (0.01 sec)
```