#1

Delimiter //

create function ufn\_count\_employees\_by\_town (town\_name varchar(50))

returns int deterministic

begin

declare emp\_count int;

set emp\_count := (select count(\*) from employees

join addresses

using (address\_id)

join towns as t using (town\_id)

where t.name = town\_name);

return emp\_count;

end //

Delimiter ;

#2

Delimiter //

create procedure usp\_raise\_salaries(

in department\_name varchar(50))

begin

update employees join departments as d

using (department\_id)

set salary = salary \*1.05

where d.name = department\_name;

end //

Delimiter ;

#3

Delimiter //

create procedure usp\_raise\_salary\_by\_id(emp\_id int)

begin

start transaction;

if((select count(\*) from employees where employee\_id = emp\_id) = 0)

then rollback;

else

update employees

set salary = salary \* 1.05

where employee\_id = emp\_id;

end if;

commit;

end //

Delimiter ;

#4

Delimiter // CREATE TABLE deleted\_employees(

employee\_id INT PRIMARY KEY AUTO\_INCREMENT,

first\_name VARCHAR(20),

last\_name VARCHAR(20),

middle\_name VARCHAR(20),

job\_title VARCHAR(50),

department\_id INT,

salary DOUBLE

);

CREATE TRIGGER tr\_deleted\_employees

AFTER DELETE

ON employees

FOR EACH ROW

BEGIN

INSERT INTO deleted\_employees (first\_name,last\_name,middle\_name,job\_title,department\_id,salary)

VALUES(OLD.first\_name,OLD.last\_name,OLD.middle\_name,OLD.job\_title,OLD.department\_id,OLD.salary);

END //

Delimiter ;